FOI #16665

Information:

First Name: Bradley
Last Name: Peek
Company: Shrader & Associates
Mailing Address 1: 3900 Essex Lane
Mailing Address 2: Suite 390
City: Houston
State: TX
Zip Code: 77027
Email Address: bradley@shraderlaw.com
Phone: 7135034541
Required copies of the records: Yes

List of specific record(s):
I request copies of the following documents: 1 Documents reflecting the dates of construction of the Pan American Airlines terminals at JFK International Airport. 2 Documents reflecting dates of any construction-renovation work performed to the Pan American Airlines terminal at JFK International Airport between 1965 and 1990. 3 Documents, such as abatement documents, asbestos assessment studies conducted in the 1970s, 1980s, and 1990s, and final manufacture product identification sheets, reflecting any and all asbestos-containing products that were used in the construction andor renovation of the Pan American terminal at JFK International Airport. Thank you.

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY PRA 16665
PUBLIC RECORD ACCESS FORM

Action by (print / type name):

William Shalewitz , Freedom of Information Administrator

Signature: Date:

08/16/2016

On behalf of the Secretary of the Port Authority, as Records Access Officer and Custodian of Government Records of the Port Authority.

☐ The requested records are being made available.

☐ Any responsive records that may exist are currently in storage or archived, and a diligent search is being conducted. The Port Authority will respond by:

☐ A diligent search has been conducted, and no records responsive to your request have been located.

☑ The requested records that have been located are not being made available, as they are exempt from disclosure for the following specific reasons:

Attorney-client privilege.

☐ Some requested records that have been located are being made available. The remainder are exempt from disclosure for the following specific reasons:

☐ The request does not reasonably describe or identify specific records; therefore, the Port Authority is unable to search for and locate responsive records. Please consider submitting a new request that describes or identifies the specific records requested with particularity and detail.

☑ Other:

Material responsive to your request can be found on the Port Authority's website at http://corpinfo.panynj.gov/documents/16665-O/. Paper copies of the available records are available upon request.

This form is promulgated by the Port Authority pursuant to the Port Authority Public Records Access Policy and is intended to be construed consistent with the New York Freedom of Information Law and the New Jersey Open Public Records Act. It is intended to facilitate requests for Port Authority public records and does not constitute legal advice.

PAN AM AIRLINES TERMINAL

BUILDING 53

FINDINGS AND OBSERVATIONS

BUILDING 53 - PAN AM AIRLINES TERMINAL

The original north, oval shaped terminal building was constructed in 1960. It consists of a basement, ground, departure, and mezzanine levels; and a penthouse air handling room on the roof. The new World Center addition was constructed from 1970 through 1971, and is connected to the original building by ramps on the departure levels. The addition consists of lower, apron, departure, and fourth floor levels, along with penthouse air plenum rooms over the fourth floor office areas.

The building is heated with hot water forced-air and cooled with chilled water in the large public areas. The perimeter office areas utilize radiant hot water heating. The high temperature hot water and chilled water are supplied from the Central Heating and Refrigeration Plant and enter the building at Mechanical Equipment Room #6 in the basement and at Mechanical Equipment Room #1 on the lower level of the World Center.

Tenants in this building include Pan Am Airlines, U.S. Customs, Marriott, Alert Special Services, U.S. Department of Agriculture, ARA Cafeteria Services, Duty Free, Aeroflot, Saudi Airlines, Avianca, LOT Airlines, Gourmet Market, The Library, Toy Chest, Bloomies, LeDrug Store, Madison Avenue Shop, and the Currency Exchange.

Building materials which have been confirmed by laboratory analysis to contain asbestos include spray-applied fireproofing; corrugated, wrapped cardboard, and magnesia pipe coverings with mudded joint packing; mudded joint packing on fiberglass-insulated piping systems; vinyl floor tiles; tank insulation; and debris.

Asbestos-containing sprayed fireproofing was found on the structural steel and decking above the drop ceilings in the new addition, outbound level in the Book Store, Gourmet Market Store, and Pan Am Service Center. The drop ceilings consist of open grid panels which expose the fireproofing to the areas below. Fireproofing was also found throughout the ceiling in the Mechanical Equipment Room #1. The material is susceptible to further contact damage in an area around a metal ladder which passes through the ceiling. Fireproofing was observed on structural steel in the penthouse, southwest air intake room. The material was very friable and subject to wind erosion. The shaft is used as a supply air intake for the building. The apron level baggage handling area in the new addition contained fireproofing sprayed onto structural steel. The material exhibited areas of contact damage. There were severe mechanical vibrations in the area caused by baggage conveyors which passes through the ceiling. There was also the potential for a strong air plenum from numerous open garage doors around the building perimeter. Active fallout of the material was observed during an incident where a baggage tractor collided with a structural column. Asbestos-containing magnesia and corrugated pipe coverings with mudded joint packings, and mudded joint packing on fiberglass-insulated piping systems were found in the original building Mechanical Rooms #1 and #6. The materials were in poor condition with major areas of contact and water damage and resulting debris. All these areas are of significant concern and are classified as Priority Level I. It is recommended that the materials in these areas be removed as soon as possible.

Asbestos-containing corrugated pipe covering and mudded joint packings on nonsuspect pipe insulation were found in the old building in the roof penthouse. The materials were in poor condition. Severe mechanical vibrations and a strong air plenum existed in the area. Magnesia, wrapped cardboard, and corrugated pipe coverings with mudded joint packing; mudded joint packing on fiberglass-insulated piping systems; and external tank insulations were observed throughout Mechanical Room #1 on the ground level of the original building. The materials were in fair to poor condition with numerous areas of contact and water damage. There was also dust and debris throughout the room. These areas are classified as Priority Level II. It is recommended that the damaged areas be repaired, the debris removed, and the areas HEPA vacuumed. The materials should then be included in an operations and maintenance program until they are removed in a phased abatement. Spray-applied fireproofing was observed in the new addition on structural steel, both exposed and above semipermanent ceilings in the following areas: lower level domestic and customs baggage claim areas, apron level Mechanical Equipment

Room #2 and other small equipment rooms, mechanical and equipment rooms on the outbound level and fourth floor, and Room 2219 in the Upper Link Building. These areas are also classified as Priority Level II. It is recommended that the areas be HEPA vacuumed and the materials be included in an operations and maintenance program until they can be removed under a phased abatement.

Asbestos-containing spray-applied fireproofing was observed on structural steel above the metal pan and drop ceilings in the new addition domestic baggage claim area, upper link apron level overhangs, and throughout the outbound level ticket, gates, and shop areas. Asbestos-containing magnesia and corrugated pipe coverings with mudded joint packings, mudded joint packing on fiberglass-insulated piping systems, tank insulation, and vinyl floor tiles were observed in mechanical rooms and above semipermanent ceilings throughout the terminal, as listed in the spreadsheets. These materials exhibited isolated areas of contact and water damage. All these areas are classified as either Priority Level III or IV. The damaged areas should be repaired as needed, and the materials included in an operations and maintenance program until they are removed under a phased abatement.

Transite-type panels were observed on the interior jetway walls and on the ceiling in Room 1217. These materials could not be sampled without creating severe cosmetic damage. These materials are cementitious and, like vinyl floor tiles, present little health hazard unless sawn, sanded, drilled, or in any other way altered causing release of fibers. These materials should be treated as asbestos-containing until analyzed prior to demolition or renovation.

Materials in this building that were determined nonasbestos-containing include acoustical ceiling tiles, drop ceiling panels, exterior weatherproofing on the jetways, and mudded joint packings in specific building areas. Please refer to the spreadsheets for material locations and quantities, and specific area comments.

COST ESTIMATE

BUILDING 53 - PAN AM AIRLINES TERMINAL

Removal of all asbestos-containing materials in Priority Level I and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$9,904,136
10% Contingency	$990,414
Total Removal/Replacement with Contingency	$10,894,550

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 6.5% of Total Construction Cost:

6.5% X $10,894,550	$708,146

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 1,890 8-hour shifts:

1,890 X $490	$926,100

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $10,894,550	$21,789

Total Project Estimate Including Professional Fees and Contingency	$12,550,585

COST ESTIMATE

BUILDING 53 - PAN AM AIRLINES TERMINAL

Removal of all asbestos-containing materials in Priority Level II and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$5,440,184
10% Contingency	$544,018
Total Removal/Replacement with Contingency	$5,984,202

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 6.5% of Total Construction Cost:	
6.5% X $5,984,202	$388,973
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 1,038 8-hour shifts:	
1,038 X $490	$508,620
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $5,984,202	$119,684
Total Project Estimate Including Professional Fees and Contingency	$7,001,479

COST ESTIMATE

BUILDING 53 - PAN AM AIRLINES TERMINAL

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$25,170,237
10% Contingency	$2,517,024
Total Removal/Replacement with Contingency	$27,687,261

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 6.5% of Total Construction Cost:	
6.5% X $27,687,261	$1,799,672
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 4,803 8-hour shifts:	
4,803 X $490	$2,353,470
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $27,687,261	$553,745
Total Project Estimate Including Professional Fees and Contingency	$32,394,148

COST ESTIMATE

BUILDING 53 - PAN AM AIRLINES TERMINAL

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$1,365,845
10% Contingency	$136,585
Total Removal/Replacement with Contingency	$1,502,430

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 6.5% of Total Construction Cost:

6.5% X $1,502,430	$97,658

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 261 8-hour shifts:

261 X $490	$127,890

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $1,502,430	$30,049

Total Project Estimate Including Professional Fees and Contingency	$1,758,027

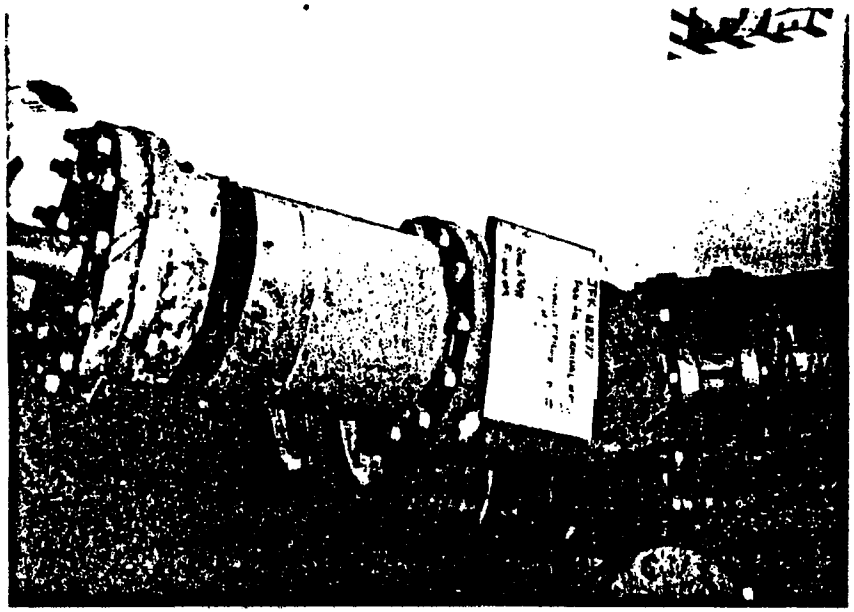
PHOTOGRAPH LOG

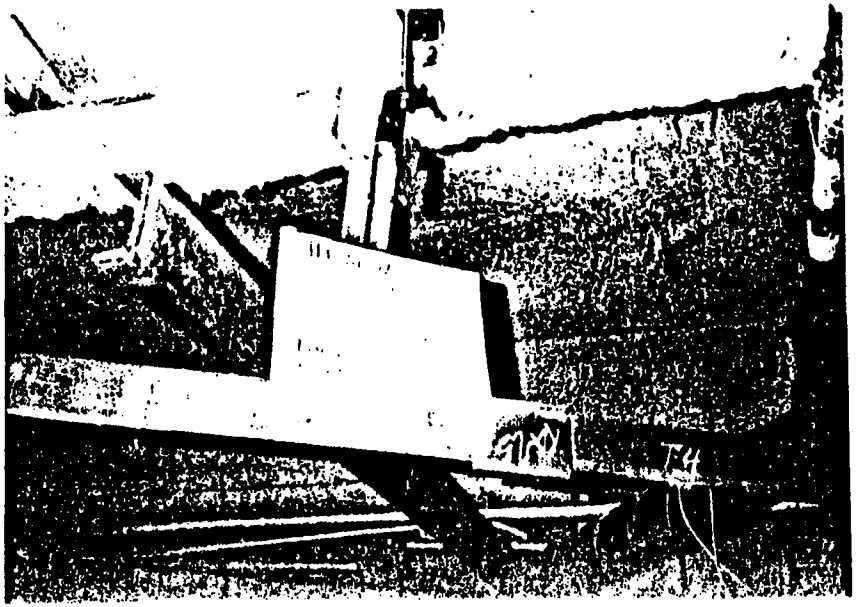
BUILDING 53 - PAN AM TERMINAL

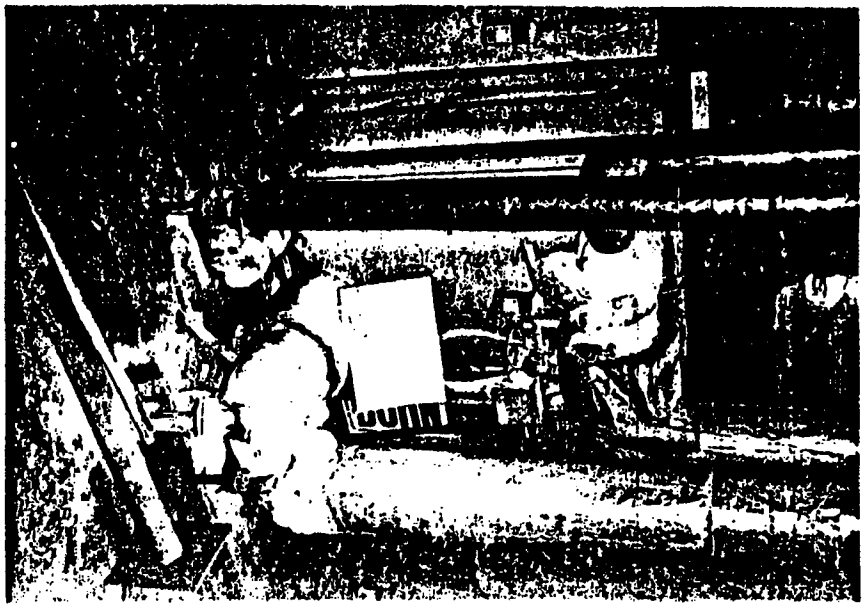
Picture #	Description
1	Pan Am Terminal, Old North Building, roof, penthouse mechanical room, exposed piping.
2	Pan Am Terminal, New Building, Apron Level, MER 2, exposed piping.
3	Pan Am Terminal, New Building, First Level, MER 1.
4	Pan Am Terminal, New Building, Apron Level, baggage handling area.
5	Pan Am Terminal, New Building, Apron Level, Gate 23 jetway, fireproofing.
6	Pan Am Terminal, New Building, Ground Level, MER 1, exposed piping and tank insulation
7	Pan Am Terminal, Old Building, Basement, MER 6, exposed piping.
8	Pan Am Terminal, Ground Level, Baggage Claim D-1, 2' by 2' lay-in ceiling panels.
9	Pan Am Terminal, New building, Fourth Floor, penthouse, return air plenum.

C-LINE #52584
35MM PRINTS

#3

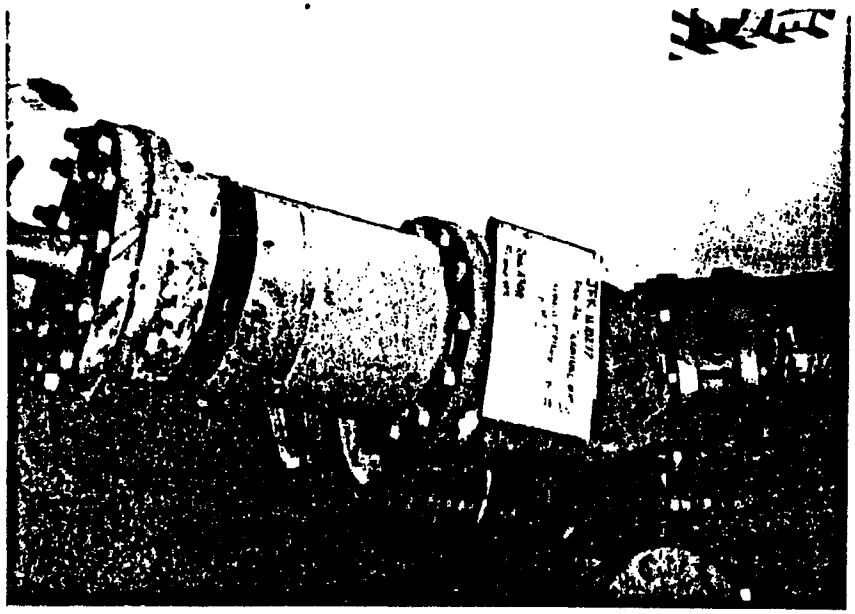


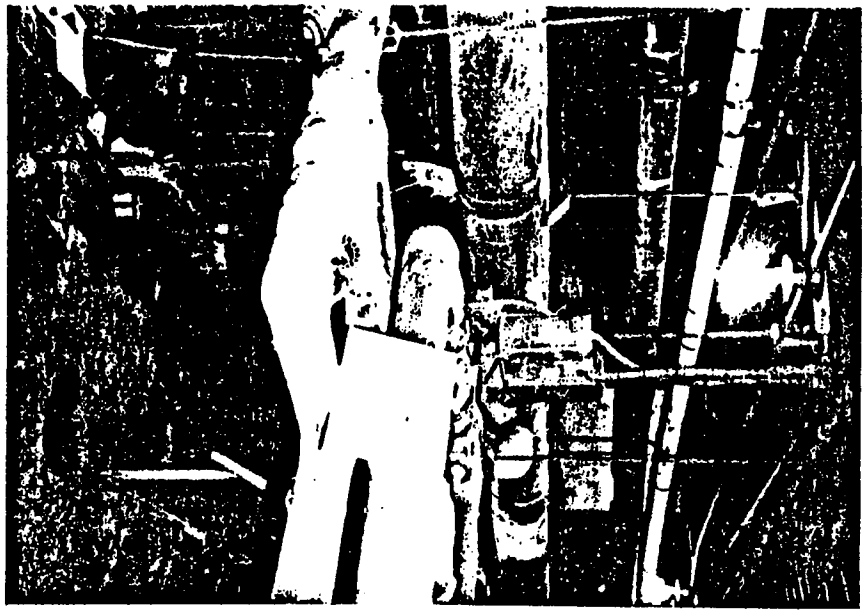


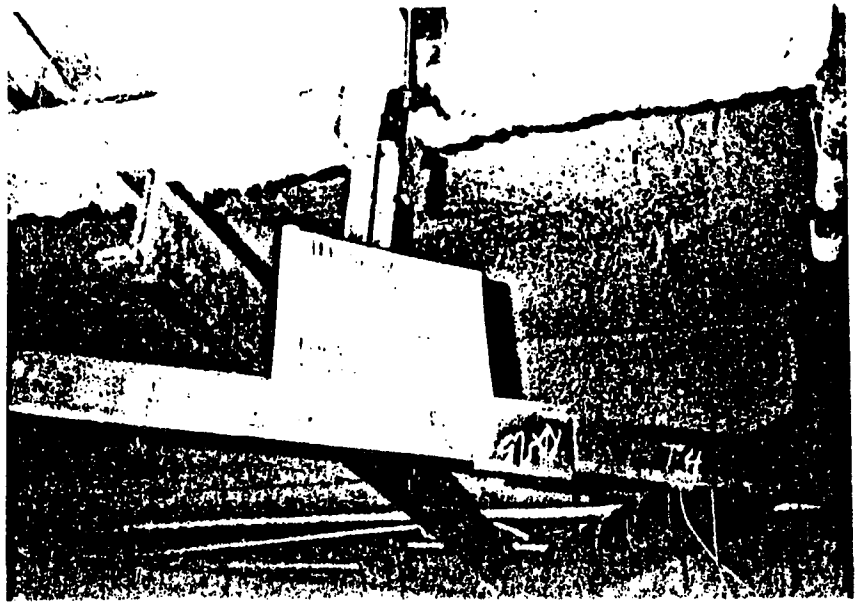


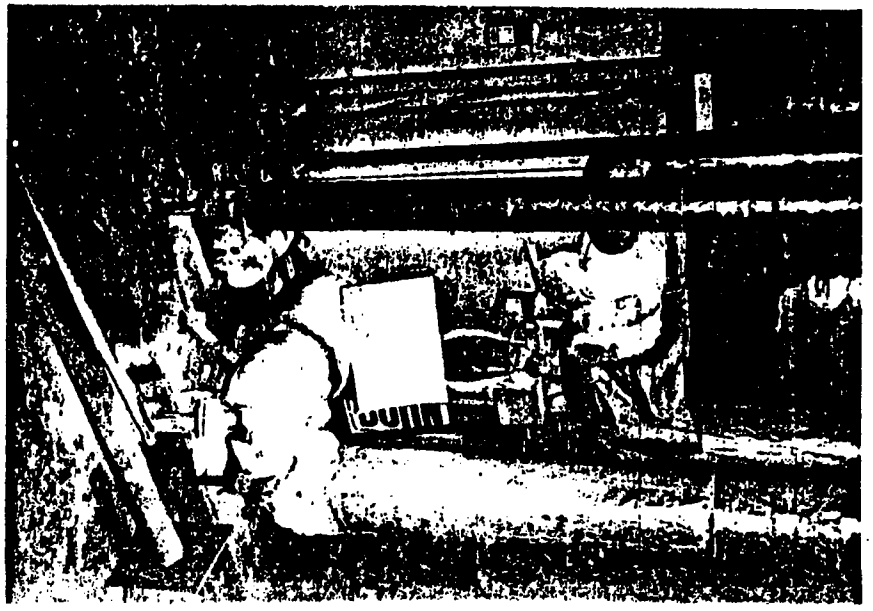
C-LINE #52584
35MM PRINTS

#3



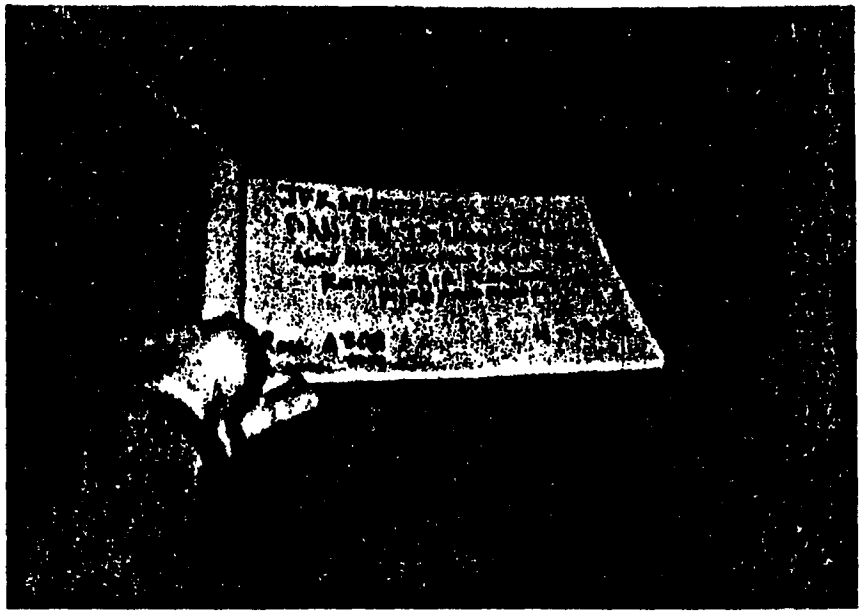






C-LINE #52584
35MM PRINTS

53



6

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 053

				ASBESTOS				OTHER MATERIALS						
SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT TRE	WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
44 -187630	Y	Y	10	10						60		30		100
44 -187631	Y	Y	10	10						70		20		100
44 -187632	Y	Y	8	8						62		30		100
44 -187633	Y	Y	12	12						68		20		100
44 -187634	Y	Y	15	15						65		20		100
44 -187635	Y	Y	15	15						45		40		100
44 -187636	Y	Y	8	8						62		30		100
44 -187637	Y	N	0							60		40		100
44 -187638	Y	Y	12	12						75		13		100
44 -187639	Y	Y	15	15						65		20		100
44 -187640	Y	Y	10	10						65		25		100
44 -187641	Y	Y	15	15						60		25		100
44 -187642	Y	Y	10	10						60		30		100
44 -187643	Y	Y	15	15						60		25		100
0 -187644	N	N	0					80				20		100
44 -187645	Y	Y	10	10						60		30		100
44 -187646	Y	Y	12	12						55		33		100
44 -187647	Y	Y	25	25						45		30		100
44 -187648	Y	Y	30	30						30		40		100
44 -187649	Y	Y	25	25						25		50		100
44 -187650	Y	Y	15	15						35		50		100
44 -187651	Y	Y	8	8						62		30		100
44 -187652	Y	Y	2	2						58		40		100
44 -187653	Y	Y	3	3						47		50		100
44 -187654	Y	Y	2	2						68		30		100
0 -187655	N	N	0					85				15		100
0 -187656	N	N	0					80				20		100
0 -187657	N	N	0					70				30		100
0 -187696	N	Y	2	2								18	80 CAL	100
0 -187697	N	Y	2	2								18	80 CAL	100
0 -187698	N	Y	2	2								15	83 CAL	100
0 -187699	N	Y	2	2								18	80 CAL	100
0 -187700	N	Y	2	2								18	80 CAL	100

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 053

				ASBESTOS					OTHER MATERIALS						
SAMPLE NUMBER	NONO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
20 -174688	Y	Y	60	25	35								30	10 COT	100
20 -174689	Y	Y	30	15	15				30				30	10 COT	100
21 -174690	Y	N	0						55				35	10 COT	100
21 -174691	Y	N	0						55				35	10 COT	100
21 -174692	Y	N	0						55				35	10 COT	100
22 -174693	Y	N	0						60				30	10 COT	100
22 -174694	Y	N	0						55				35	10 COT	100
22 -174695	Y	N	0						60				30	10 COT	100
23 -174696	Y	N	0						60				40		100
23 -174697	Y	N	0						65				35		100
23 -174698	Y	N	0						55				45		100
24 -187501	Y	N	0						60				40		100
24 -187502	Y	N	0						65				35		100
24 -187503	Y	N	0						60				40		100
25 -187504	Y	Y	60	60									40		100
25 -187505	Y	Y	40	40									60		100
25 -187506	Y	Y	40	40									60		100
26 -187507	Y	Y	15	15							20		65		100
26 -187508	Y	Y	10	10							30		60		100
26 -187509	Y	Y	5	5							30		65		100
26 -187510	Y	Y	5	5							35		60		100
26 -187511	Y	Y	10	10							40		50		100
27 -187512	Y	N	0						45				45	10 GM	100
27 -187513	Y	N	0						45				45	10 GM	100
27 -187514	Y	N	0						40				50	10 GM	100
28 -187515	Y	N	0						50				50		100
28 -187516	Y	N	0						55				45		100
28 -187517	Y	N	0						50				50		100
29 -187518	Y	Y	20	20							30		50		100
29 -187519	Y	Y	15	15							30		55		100
29 -187520	Y	Y	10	10							35		55		100
29 -187521	Y	Y	20	20							30		50		100
29 -187522	Y	Y	20	20							35		45		100
29 -187523	Y	Y	20	20							25		55		100
29 -187524	Y	Y	30	30							25		45		100
29 -187525	Y	Y	25	25							30		45		100
30 -187526	Y	N	0						40				60		100
30 -187527	Y	N	0						45				55		100
30 -187528	Y	N	0						40	20			40		100
0 -187529	N	Y	40	40						40			20		100
31 -187530	Y	N	0						40	10			50		100
31 -187531	Y	N	0						35	10			55		100
31 -187532	Y	N	0						35	10			55		100
32 -187533	Y	N	0						30	5			65		100
32 -187534	Y	N	0						35	5			60		100
32 -187535	Y	N	0						35	10			55		100
33 -187536	Y	N	0						30	10			50	10 GM	100
33 -187537	Y	N	0						30	10			50	10 GM	100
33 -187538	Y	N	0						30	10			50	10 GM	100
34 -187539	Y	Y	10	10							40		50		100
34 -187540	Y	Y	10	10							45		45		100
34 -187541	Y	Y	10	10							30		60		100
34 -187542	Y	Y	5	5							45		50		100
34 -187543	Y	N	0								25		75		100
34 -187544	Y	Y	15	15							20		65		100
34 -187545	Y	N	0							30	50		20		100
0 -187546	N	N	0						45				55		100
0 -187547	N	N	0						20	40		25	15		100
0 -187548	N	Y	40		40					30			30		100
35 -187549	Y	Y	45	25	20					10			45		100
35 -187550	Y	Y	60	30	30					10			30		100
35 -187551	Y	Y	45	25	20								55		100
36 -187552	Y	N	0						30				70		100
36 -187553	Y	Y	5	5					30				65		100
36 -187554	Y	N	0						60				40		100
37 -187555	Y	Y	25	25									75		100
37 -187556	Y	Y	60	40	20				20				20		100
37 -187557	Y	Y	25	25					20				55		100
0 -187558	N	Y	15	15							70		15		100

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 053

			ASBESTOS					OTHER MATERIALS						
SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
38 -187559	Y	Y	15	15									85		100
38 -187560	Y	Y	15	15									85		100
38 -187561	Y	Y	10	10									90		100
39 -187562	Y	N	0						20				50	30 W	100
39 -187563	Y	N	0						40				60		100
39 -187564	Y	N	0						40				60		100
0 -187565	N	N	0						50				50		100
0 -187566	N	N	0						20	30		20	30		100
40 -187568	Y	N	0							10	30		60		100
40 -187569	Y	Y	15	15						10	20		55		100
40 -187570	Y	N	0							10	25		65		100
40 -187571	Y	N	0							20	10		70		100
40 -187572	Y	Y	10	10							20		70		100
40 -187573	Y	Y	15	15							20		65		100
40 -187574	Y	N	0								30		70		100
40 -187575	Y	N	0							15	20		65		100
40 -187576	Y	N	0							15	20		65		100
40 -187577	Y	N	0							20	15		65		100
40 -187578	Y	N	0								25		75		100
40 -187579	Y	Y	15	15							20		65		100
40 -187580	Y	Y	10	10							15		75		100
40 -187581	Y	N	0							15	20		65		100
40 -187582	Y	N	0							15	25		60		100
40 -187583	Y	N	0							10	20		70		100
40 -187584	Y	Y	10	10							20		70		100
40 -187585	Y	Y	15	15							15		70		100
40 -187586	Y	N	0							15	15		70		100
40 -187587	Y	N	0							15	15		70		100
40 -187588	Y	N	0							20	15		65		100
40 -187589	Y	N	0							15	15		70		100
40 -187590	Y	N	0							15	15		70		100
0 -187591	Y	N	0						20	30		25	25		100
41 -187592	Y	Y	15	15							20		65		100
41 -187593	Y	Y	10	10							15		75		100
41 -187594	Y	Y	10	10							20		70		100
41 -187595	Y	Y	10	10							20		70		100
42 -187596	Y	Y	10	10							15		75		100
42 -187597	Y	Y	15	15							10		75		100
42 -187598	Y	Y	10	10							20		70		100
42 -187599	Y	Y	10	10							15		75		100
0 -187601	N	N	0								80		20		100
0 -187602	N	N	0								85		15		100
0 -187603	N	N	0								75		25		100
0 -187604	N	N	0							10	70		20		100
0 -187605	N	N	0								80		20		100
0 -187606	Y	Y	2	2							78		20		100
0 -187607	Y	N	0							10	80		10		100
42 -187608	Y	Y	2	2							83		15		100
42 -187609	Y	Y	4	4							81		15		100
42 -187610	Y	Y	10	10							80		10		100
42 -187611	Y	Y	10	10							80		10		100
42 -187612	Y	Y	6	6							84		10		100
42 -187613	Y	Y	10	10							80		10		100
43 -187614	Y	Y	15	15							70		15		100
43 -187615	Y	Y	15	15							65		20		100
43 -187616	Y	Y	15	15							65		20		100
43 -187617	Y	Y	12	12							60		28		100
43 -187618	Y	Y	18	18							50		32		100
43 -187619	Y	Y	18	18							60		22		100
43 -187620	Y	Y	12	12							38		50		100
43 -187621	Y	Y	15	15							25		60		100
43 -187622	Y	Y	8	8							52		40		100
43 -187623	Y	Y	15	15							65		20		100
44 -187624	Y	Y	25	25							55		20		100
44 -187625	Y	Y	30	30							40		30		100
44 -187626	Y	Y	20	20							50		30		100
44 -187627	Y	Y	18	18							60		22		100
44 -187628	Y	Y	15	15							65		20		100
44 -187629	Y	Y	20.	20							50		30		100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 14

Building Number: 053
Building Name: PAN AM AIRLINES TERMINAL
JFK AIRPORT
Building Type: TERMINAL
Constructed: 1960
Inspected: 04/11/88
Inspector: D. L. Stephens

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	ARA New Addition-Apron Level-Ceiling					AREA AVERAGE % ASB -		0%					
	men's locker room	187656-0	acoustical tile	OMG	150	sq.ft.		0					
	cafeteria area	187656-0	acoustical tile	OMG	3950	sq.ft.		0					
	kitchen dry goods storage	187656-0	acoustical tile	OMG	300	sq.ft.		0					
								AREA TOTAL			$0	$0	$0
02	ARA New Addition-Apron Level					AREA AVERAGE % ASB -		0%					
	kitchen by conveyor shop	174693-22	mjp on non-suspect pipe cover	OMA	8	4 in. O.D.	DW	0					
	kitchen and cafeteria	174693-22	mjp on non-suspect pipe cover	OMA	18	4 in. O.D.	DW	0					
	kitchen storage	174693-22	mjp on non-suspect pipe cover	OMA	29	4 in. O.D.	DW	0					
		174694-22	mjp on non-suspect pipe cover	OMA				0					
		174695-22	mjp on non-suspect pipe cover	OMA				0					
	kitchen dry goods storage	187515-28	mjp on non-suspect pipe cover	OMA	6	4 in. O.D.	HWS/R	0					
		187516-28	mjp on non-suspect pipe cover	OMA				0					
		187517-28	mjp on non-suspect pipe cover	OMA				0					
								AREA TOTAL			$0	$0	$0
							TENANT - ARA	TOTAL			$0	$0	$0

AREA #	TENANT AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	OSM CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
03	BOOK STORE New Addition-Outbound Level					AREA AVERAGE % ASB - 9%							
	above drop ceiling in bookstore	187596-42	fireproofing	ONC	300	sq.ft.		10	60	I	$10,833	$2,004	$12,837
		187597-42	fireproofing	ONC				15	60	I			
		187598-42	fireproofing	ONC				10	60	I			
		187599-42	fireproofing	ONC				10	60	I			
		187608-42	fireproofing	ONC				2	60	I			
		187609-42	fireproofing	ONC				4	60	I			
		187610-42	fireproofing	ONC				10	60	I			
		187611-42	fireproofing	ONC				10	60	I			
		187612-42	fireproofing	ONC				6	60	I			
		187613-42	fireproofing	ONC				10	60	I			
	The material in this area is fireproofing. It has been sprayed-on the structural members and decking on the ceiling area. The material is located above the drop ceiling. Two of the 2'x4' ceiling panels have been replaced with grid type panels. This situation permits potential exposure to the fireproofing and to the inhabitants of the store below. If the grid ceiling panels were replaced with solid panels, this would reduce the potential for fiber exposure in the area.							AREA TOTAL			$10,833	$2,004	$12,837
								TENANT - BOOK STORE TOTAL			$10,833	$2,004	$12,837

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	OBM CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
04	DUTY FREE	Madison Ave Shop-New Addition-Outbound					AREA AVERAGE % ASB -		9%					
	above the grid ceiling in store		187596-42	fireproofing	OMC	1200	sq.ft.		10	36	III	$43,332	$8,016	$51,348
			187597-42	fireproofing	OMC				15	36	III			
			187598-42	fireproofing	OMC				10	36	III			
			187599-42	fireproofing	OMC				10	36	III			
			187608-42	fireproofing	OMC				2	36	III			
			187609-42	fireproofing	OMC				4	36	III			
			187610-42	fireproofing	OMC				10	36	III			
			187611-42	fireproofing	OMC				10	36	III			
			187612-42	fireproofing	OMC				6	36	III			
			187613-42	fireproofing	OMC				10	36	III			
	The material in this area is fireproofing on structural members located above the open grid ceilings. The material is friable, but has been encapsulated and at this time has a lower potential for fiber release than other non encapsulated fireproofing located on this level.								AREA TOTAL			$43,332	$8,016	$51,348
									TENANT - DUTY FREE TOTAL			$43,332	$8,016	$51,348

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
05	FOOD SERV Old Building-Mezzanine Level-Ceilings					AREA AVERAGE % ASB -		0%					
	rest rooms behind snack bar	187655-0	drop or lay-in panel	OMG	1100	sq.ft.		0					
	snack bar kitchen	187655-0	drop or lay-in panel	OMG	800	sq.ft.		0					
								AREA TOTAL			$0	$0	$0
								TENANT - FOOD SERV		TOTAL	$0	$0	$0

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
06	GORMET MKT — New Addit.-Outbound Level-Market Place					AREA AVERAGE % ASB - 9%							
	above the grid ceiling in store	187596-42	fireproofing	OMC	900	sq.ft.		10	63	1	$32,499	$6,012	$38,511
		187597-42	fireproofing	OMC				15	63	1			
		187598-42	fireproofing	OMC				10	63	1			
		187599-42	fireproofing	OMC				10	63	1			
		187608-42	fireproofing	OMC				2	63	1			
		187609-42	fireproofing	OMC				4	63	1			
		187610-42	fireproofing	OMC				10	63	1			
		187611-42	fireproofing	OMC				10	63	1			
		187612-42	fireproofing	OMC				6	63	1			
		187613-42	fireproofing	OMC				10	63	1			
		187613-42	fireproofing	OMC				10	63	1			
	The material in this area is fireproofing on structural members with overspray on the decking. The material is located above a grid ceiling. The material is friable and prone to fiber release and fallout.							AREA TOTAL			$32,499	$6,012	$38,511
								TENANT - GORMET MKT TOTAL			$32,499	$6,012	$38,511

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	GRN CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
06A	MARRIOTT	New Addition-Outbound Level-Ceilings					AREA AVERAGE % ASB -		0%					
	kitchen area		187547-0	drop or lay-in panel	ONG	800	sq.ft.		0					
	transit lounge		187644-0	drop or lay-in panel	ONG	1200	sq.ft.		0					
	kitchen area		187656-0	acoustical tile	ONG	800	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
							TENANT - MARRIOTT		TOTAL			$0	$0	$0

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	OEM CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
07	PAN AM Orig. Bld-Basement-Mechanical Room #6					AREA AVERAGE % ASB - 58%							
	at ceiling-east part of room near panel	174671-0	pipe covering	OMA	5	ft. 10 in. O.D.	MWS/R	50	122	I	$127	$94	$221
	at ceiling-east part of room near panel	174672-16	mjp on pipe covering	OMA	2	10 in. O.D.	MWS/R	70	122	I	$168	$105	$273
		174673-16	mjp on pipe covering	OMA				60	122	I			
		174674-16	mjp on pipe covering	OMA				65	122	I			
	This area of insulation is damaged due to periodic contact being made by an access door on an electrical panel.								AREA TOTAL		$295	$199	$494
08	PAN AM Orig. Bldg-Basement-Mechanical Room #6					AREA AVERAGE % ASB - 26%							
	throughout area	174671-0	pipe covering	OMA	75	ft. 10 in. O.D.	MWS/R	50	36	III	$1,903	$1,410	$3,313
	throughout area	174678-0	wrapped cardboard/paper pipe	OMA	135	ft. 6 in. O.D.	DW	0			$2,357	$1,474	$3,831
	throughout area	174678-0	wrapped cardboard/paper pipe	OMA	140	ft. 10 in. O.D.	DW	0			$3,553	$2,632	$6,185
	throughout area	174682-0	corrugated pipe covering	OMA	185	ft. 4 in. O.D.	DW	70	36	III	$2,220	$1,389	$3,609
	throughout area	174672-16	mjp on pipe covering	OMA	15	10 in. O.D.	MWS/R	70	36	III	$1,263	$790	$2,053
		174673-16	mjp on pipe covering	OMA				60	36	III			
		174674-16	mjp on pipe covering	OMA				65	36	III			
	throughout area	174675-17	mjp on non-suspect pipe cover	OMA	55	4 in. O.D.	MWS/R	35	36	III	$2,079	$1,155	$3,234
		174676-17	mjp on non-suspect pipe cover	OMA				30	36	III			
		174677-17	mjp on non-suspect pipe cover	OMA				0	36	III			
	throughout area	174679-18	mjp on wrapped cardboard/paper	OMA	75	12 in. O.D.	DW	0					
	throughout area	174679-18	mjp on wrapped cardboard/paper	OMA	35	8 in. O.D.	DW	0					
		174680-18	mjp on wrapped cardboard/paper	OMA				0					
		174681-18	mjp on wrapped cardboard/paper	OMA				0					
	throughout area	174683-19	mjp on corrugate pipe covering	OMA	80	4 in. O.D.	DW	0					
		174684-19	mjp on corrugate pipe covering	OMA				0					
		174685-19	mjp on corrugate pipe covering	OMA				0					
	Pipe insulation in this room is in fair condition with isolated areas of contact and water damage.								AREA TOTAL		$13,375	$8,850	$22,225
09	PAN AM Old Building-Ground Level					AREA AVERAGE % ASB - 53%							
	electrical closet off baggage claim area	174652-0	corrugated pipe covering	OMA	3	ft. 4 in. O.D.	DW	75	32	III	$36	$23	$59
	old rest room off baggage service	174652-0	corrugated pipe covering	OMA	9	ft. 4 in. O.D.	DW	75	32	III	$108	$68	$176
	valve room next to west side garage	174656-0	pipe covering	OMA	7	ft. 12 in. O.D.	MWS/R	45	32	III	$207	$159	$366

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	conveyor room behind east baggage claim	187529-0	corrugated pipe covering	OMA	3	ft. 4 in. O.D.	MMS/R	40	32	III	$36	$23	$59
	valve room next to west side garage	174657-13	mjp on pipe covering	OMA	12	12 in. O.D.	MMS/R	55	32	III	$1,225	$765	$1,990
		174658-13	mjp on pipe covering	OMA				50	32	III			
		174659-13	mjp on pipe covering	OMA				55	32	III			
	east side garage	174675-17	mjp on non-suspect pipe cover	OMA	31	4 in. O.D.	MMS/R	35	32	III	$1,172	$651	$1,823
	electrical closet off baggage claim area	174675-17	mjp on non-suspect pipe cover	OMA	10	4 in. O.D.	MMS/R	35	32	III	$378	$210	$588
	hallway ceiling heater-west side	174675-17	mjp on non-suspect pipe cover	OMA	9	4 in. O.D.	MMS/R	35	32	III	$340	$189	$529
	hallway ceiling heater-north west corner	174675-17	mjp on non-suspect pipe cover	OMA	5	4 in. O.D.	MMS/R	35	32	III	$189	$105	$294
	conveyor room behind east baggage claim	174675-17	mjp on non-suspect pipe cover	OMA	8	4 in. O.D.	MMS/R	35	32	III	$302	$168	$470
	old rest room off baggage service	174675-17	mjp on non-suspect pipe cover	OMA	9	4 in. O.D.	MMS/R	35	32	III	$340	$189	$529
	baggage service storage areas	174675-17	mjp on non-suspect pipe cover	OMA	64	4 in. O.D.	MMS/R	35	32	III	$2,419	$1,344	$3,763
		174676-17	mjp on non-suspect pipe cover	OMA				30	32	III			
		174677-17	mjp on non-suspect pipe cover	OMA				0	32	III			
	The material is in fair condition with localized areas of contact damage. These areas are accessed infrequently.							AREA TOTAL			$6,752	$3,894	$10,646
10	PAN AM Old Bldg-Ground Level-Locker Room Area						AREA AVERAGE % ASB - 31%						
	locker room past baggage service	174675-17	mjp on non-suspect pipe cover	OMA	40	4 in. O.D.	MMS/R	35	26	III	$1,512	$840	$2,352
	hallway outside LE janitorial closet	174675-17	mjp on non-suspect pipe cover	OMA	10	4 in. O.D.	MMS/R	35	26	III	$378	$210	$588
	hallway leading to west double doors	174675-17	mjp on non-suspect pipe cover	OMA	5	4 in. O.D.	MMS/R	35	26	III	$189	$105	$294
	E-W hallway off west double exit doors	174675-17	mjp on non-suspect pipe cover	OMA	4	4 in. O.D.	MMS/R	35	26	III	$151	$84	$235
	room by west side double exit doors	174675-17	mjp on non-suspect pipe cover	OMA	17	4 in. O.D.	MMS/R	35	26	III	$643	$357	$1,000
	E-W hallway off west double exit doors	174675-17	mjp on non-suspect pipe cover	OMA	1	6 in. O.D.	MMS/R	35	26	III	$52	$31	$83
	locker room past baggage service	174675-17	mjp on non-suspect pipe cover	OMA	2	6 in. O.D.	MMS/R	35	26	III	$104	$61	$165
		174676-17	mjp on non-suspect pipe cover	OMA				30	26	III			
		174677-17	mjp on non-suspect pipe cover	OMA				0	26	III			
	The material is in fair condition. These areas are accessed regularly by airline personnel. There are isolated areas of contact damage.							AREA TOTAL			$3,029	$1,688	$4,717
11	PAN AM Old Building-Ground Level						AREA AVERAGE % ASB - 29%						
	above drop & semipermanent ceilings	174652-0	corrugated pipe covering	OMA	920	ft. 4 in. O.D.	DW	75	16	IV	$11,040	$6,909	$17,949
	above drop & semipermanent ceilings	174653-12	mjp on corrugate pipe covering	OMA	138	4 in. O.D.	DW	6	16	IV	$5,216	$2,898	$8,114

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		174654-12	mjp on corrugate pipe covering	OMA				6	16	IV			
		174655-12	mjp on corrugate pipe covering	OMA				6	16	IV			
	above drop & semipermanent ceilings	174675-17	mjp on non-suspect pipe cover	OMA	66	4 in. O.D.	MWS/R	35	16	IV	$2,495	$1,386	$3,881
		174676-17	mjp on non-suspect pipe cover	OMA				30	16	IV			
		174677-17	mjp on non-suspect pipe cover	OMA				0	16	IV			
	above drop & semipermanent ceilings	174643-9	mjp on non-suspect pipe cover	OMA	8	6 in. O.D.	CWS/R	0	16	IV	$416	$245	$661
		174644-9	mjp on non-suspect pipe cover	OMA				20	16	IV			
		174645-9	mjp on non-suspect pipe cover	OMA				20	16	IV			
	The material types and quantities were estimated from available, although incomplete drawings. The accuracy of the drawings is uncertain.							AREA TOTAL			$19,167	$11,438	$30,605
12	PAN AM Old Building-Ground Level					AREA AVERAGE % ASB - 2%							
	baggage service area & hallway	187696-0	vinyl floor tile	OMZ	3060	sq.ft.		2	7	IV	$13,892	$10,526	$24,418
	throughout all other hallways & offices	187697-0	vinyl floor tile	OMZ	6950	sq.ft.		2	7	IV	$31,553	$23,908	$55,461
	womens locker room	187697-0	vinyl floor tile	OMZ	750	sq.ft.		2	7	IV	$3,405	$2,580	$5,985
	The material is in fair condition with areas of deterioration. These areas are accessed frequently.							AREA TOTAL			$48,850	$37,014	$85,864
13	PAN AM Orig. Bldg-Ground Level-Mechanical Room					AREA AVERAGE % ASB - 34%							
	throughout area	174652-0	corrugated pipe covering	OMA	185	ft. 6 in. O.D.	DW	75	51	II	$3,230	$2,020	$5,250
	throughout area	174652-0	corrugated pipe covering	OMA	290	ft. 4 in. O.D.	DW	75	51	II	$3,480	$2,178	$5,658
	throughout area	174646-10	mjp on non-suspect pipe cover	OMA	290	10 in. O.D.	MWS/R	25	51	II	$24,424	$15,266	$39,690
	throughout area	174646-10	mjp on non-suspect pipe cover	OMA	210	14 in. O.D.	MWS/R	25	51	II	$24,488	$15,739	$40,227
	throughout area	174646-10	mjp on non-suspect pipe cover	OMA	310	4 in. O.D.	MWS/R	25	51	II	$11,718	$6,510	$18,228
		174647-10	mjp on non-suspect pipe cover	OMA				10	51	II			
		174648-10	mjp on non-suspect pipe cover	OMA				25	51	II			
	throughout area	174649-11	mjp on non-suspect pipe cover	OMA	79	4 in. O.D.	DW	20	51	II	$2,986	$1,659	$4,645
		174650-11	mjp on non-suspect pipe cover	OMA				20	51	II			
		174651-11	mjp on non-suspect pipe cover	OMA				20	51	II			
	throughout area	174653-12	mjp on corrugate pipe covering	OMA	33	6 in. O.D.	DW	6	51	II	$1,717	$1,009	$2,726
	throughout area	174653-12	mjp on corrugate pipe covering	OMA	105	4 in. O.D.	DW	6	51	II	$3,969	$2,205	$6,174
		174654-12	mjp on corrugate pipe covering	OMA				6	51	II			
		174655-12	mjp on corrugate pipe covering	OMA				6	51	II			

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	D&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	EXP PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	throughout area	174643-9	mjp on non-suspect pipe cover	OHA	36	10 in. O.D.	CWS/R	0	51	II	$3,032	$1,895	$4,927
	throughout area	174643-9	mjp on non-suspect pipe cover	OHA	71	8 in. O.D.	CWS/R	0	51	II	$4,597	$2,703	$7,300
	throughout area	174643-9	mjp on non-suspect pipe cover	OHA	23	20 in. O.D.	CWS/R	0	51	II	$5,379	$3,985	$9,364
	throughout area	174643-9	mjp on non-suspect pipe cover	OHA	22	14 in. O.D.	CWS/R	0	51	II	$2,565	$1,649	$4,214
		174644-9	mjp on non-suspect pipe cover	OHA				20	51	II			
		174645-9	mjp on non-suspect pipe cover	OHA				20	51	II			
	Pipe insulation in this area is in fair to poor condition. Debris is common throughout the room and dust is present in most areas.							AREA TOTAL			$91,585	$56,818	$148,403
14	PAN AM — Orig Bldg-Ground Level-Mechanical Rm #1							AREA AVERAGE % ASB - 21%					
	throughout area	174656-0	pipe covering	OHA	10	ft. 8 in. O.D.	MWS/R	45	51	II	$190	$136	$326
	throughout area	174656-0	pipe covering	OHA	4	ft. 4 in. O.D.	MWS/R	45	51	II	$48	$30	$78
	northwest part of room	174663-0	corrugated pipe covering	OHA	30	ft. 4 in. O.D.	MWS/R	55	51	II	$360	$225	$585
	throughout room	174666-0	tar paper on fiberglass	OHZ	24	ft. 10 in. O.D.	CWS/R	0					
	throughout room	174666-0	tar paper on fiberglass	OHZ	200	ft. 12 in. O.D.	CWS/R	0					
	throughout room	174667-0	wrapped cardboard/paper pipe	OHA	198	ft. 4 in. O.D.	DW	7	51	II	$2,376	$1,487	$3,863
	throughout room	174667-0	wrapped cardboard/paper pipe	OHA	65	ft. 6 in. O.D.	DW	7	51	II	$1,135	$710	$1,845
	throughout room	174667-0	wrapped cardboard/paper pipe	OHA	30	ft. 8 in. O.D.	DW	7	51	II	$571	$408	$979
	throughout area	174657-13	mjp on pipe covering	OHA	4	8 in. O.D.	MWS/R	55	51	II	$259	$152	$411
	throughout area	174657-13	mjp on pipe covering	OHA	6	4 in. O.D.	MWS/R	55	51	II	$227	$126	$353
		174658-13	mjp on pipe covering	OHA				50	51	II			
		174659-13	mjp on pipe covering	OHA				55	51	II			
	northwest part of room	174660-14	mjp on corrugate pipe covering	OHA	7	4 in. O.D.	MWS/R	0					
		174661-14	mjp on corrugate pipe covering	OHA				0					
		174662-14	mjp on corrugate pipe covering	OHA				0					
	throughout room	174668-15	mjp on wrapped cardboard/paper	OHA	89	4 in. O.D.	DW	6	51	II	$3,364	$1,869	$5,233
	throughout room	174668-15	mjp on wrapped cardboard/paper	OHA	5	8 in. O.D.	DW	6	51	II	$326	$190	$514
	throughout room	174668-15	mjp on wrapped cardboard/paper	OHA	26	6 in. O.D.	DW	6	51	II	$1,353	$795	$2,148
		174669-15	mjp on wrapped cardboard/paper	OHA				6	51	II			
		174670-15	mjp on wrapped cardboard/paper	OHA				2	51	II			
								AREA TOTAL			$10,207	$6,128	$16,335

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
15	PAN AM	Orig. Bld-Ground Level-Mechanical Rm #1					AREA AVERAGE % ASB - 48%							
	west side of room		174619-1	boiler/tank insulation	OMB	27	sq.ft.		50	53	II	$1,291	$1,034	$2,325
			174620-1	boiler/tank insulation	OMB				45	53	II			
			174621-1	boiler/tank insulation	OMB				50	53	II			
	west side of room		174622-2	boiler/tank insulation	OMB	32	sq.ft.		60	53	II	$1,530	$1,226	$2,756
			174623-2	boiler/tank insulation	OMB				60	53	II			
			174624-2	boiler/tank insulation	OMB				60	53	II			
	southeast corner of room		174625-3	boiler/tank insulation	OMB	186	sq.ft.		50	53	II	$8,895	$7,124	$16,019
			174626-3	boiler/tank insulation	OMB				40	53	II			
			174627-3	boiler/tank insulation	OMB				45	53	II			
	southeast corner of room		174628-4	boiler/tank insulation	OMB	186	sq.ft.		0					
			174629-4	boiler/tank insulation	OMB				0					
			174630-4	boiler/tank insulation	OMB				0					
	near east wall of room		174631-5	boiler/tank insulation	OMB	70	sq.ft.		55	53	II	$3,347	$2,681	$6,028
			174632-5	boiler/tank insulation	OMB				60	53	II			
			174633-5	boiler/tank insulation	OMB				60	53	II			
	near east wall of room		174634-6	boiler/tank insulation	OMB	70	sq.ft.		55	53	II	$3,347	$2,681	$6,028
			174635-6	boiler/tank insulation	OMB				60	53	II			
			174636-6	boiler/tank insulation	OMB				60	53	II			
	near east wall of room		174637-7	boiler/tank insulation	OMB	70	sq.ft.		55	53	II	$3,347	$2,681	$6,028
			174638-7	boiler/tank insulation	OMB				60	53	II			
			174639-7	boiler/tank insulation	OMB				60	53	II			
	near east wall of room		174640-8	boiler/tank insulation	OMB	70	sq.ft.		60	53	II	$3,347	$2,681	$6,028
			174641-8	boiler/tank insulation	OMB				65	53	II			
			174642-8	boiler/tank insulation	OMB				55	53	II			
	The tank insulation in this room is in poor condition due to water and contact damage. There is also much damage to the pipe fittings. There are various areas throughout the room with traces of debris and dust and two major areas of debris: one below the #1 hot water converter tank and another on top of domestic storage tank #2.							AREA TOTAL				$25,104	$20,108	$45,212
16	PAN AM	Orig. Bld-Ground Level-Mechanical Rm #1					AREA AVERAGE % ASB - 25%							
	throughout		174652-0	corrugated pipe covering	OMA	6	ft. 4 in. O.D.	DW	75	89	I	$72	$45	$117
	throughout		174643-10	mjp on non-suspect pipe cover	OMA	12	10 in. O.D.	HTW/R	0	89	I	$1,011	$632	$1,643
	throughout		174643-10	mjp on non-suspect pipe cover	OMA	8	14 in. O.D.	HTW/R	0	89	I	$933	$600	$1,533
			174647-10	mjp on non-suspect pipe cover	OMA				10	89	I			

AREA #	TENANT AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		174648-10	mjp on non-suspect pipe cover	ONA				25	89	I			
	throughout	174649-11	mjp on non-suspect pipe cover	ONA	4	4 in. O.D.	DW	20	89	I	$151	$84	$235
		174650-11	mjp on non-suspect pipe cover	ONA				20	89	I			
		174651-11	mjp on non-suspect pipe cover	ONA				20	89	I			
	throughout	174653-12	mjp on corrugate pipe covering	ONA	3	4 in. O.D.	DW	6	89	I	$113	$63	$176
		174654-12	mjp on corrugate pipe covering	ONA				6	89	I			
		174655-12	mjp on corrugate pipe covering	ONA				6	89	I			
	throughout	174643-9	mjp on non-suspect pipe cover	ONA	4	14 in. O.D.	CWS/R	0	89	I	$466	$300	$766
		174644-9	mjp on non-suspect pipe cover	ONA				20	89	I			
		174645-9	mjp on non-suspect pipe cover	ONA				20	89	I			
	Mudded joint packings are in very poor condition, due to water and contact damage. Debris is common in these areas, with the possibility of dust being created upon disturbance of material.							AREA TOTAL			$2,746	$1,724	$4,470
17	PAN AM Orig. Bld-Ground Level-Mechanical Rm #1							AREA AVERAGE % ASB - 40%					
	under HTHW converter tank #1	174664-0	debris	ONF	3	sq.ft.		60	92	I	$100	$0	$100
	on top of DOM storage tank #2	174665-0	debris	ONF	2	sq.ft.		20	92	I	$100	$0	$100
	The debris is scattered in piles throughout the room and is the result of deteriorated mechanical insulation. This room is very dirty and is accessed regularly. There is an air plenum in this room occasionally.							AREA TOTAL			$200	$0	$200
18	PAN AM Old Building-Ground Level-Ceilings							AREA AVERAGE % ASB - 0%					
	janitors closets-E side of baggage area	187547-0	drop or lay-in panel	ONG	80	sq.ft.		0					
	baggage service offices	187547-0	drop or lay-in panel	ONG	475	sq.ft.		0					
	room 116	187547-0	drop or lay-in panel	ONG	175	sq.ft.		0					
	hallway to baggage tracing office	187547-0	drop or lay-in panel	ONG	675	sq.ft.		0					
	hallway behind baggage claim	187565-0	drop or lay-in panel	ONG	1080	sq.ft.		0					
	baggage claim areas	187565-0	drop or lay-in panel	ONG	30800	sq.ft.		0					
	office by west outside exit	187565-0	drop or lay-in panel	ONG	528	sq.ft.		0					
								AREA TOTAL			$0	$0	$0

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
19	PAN AM — Old Building-Departure Level					AREA AVERAGE % ASB - 2%							
	behind news stand-above metal ceiling	187652-45	fireproofing	OMC	2800	sq.ft.		2	23	III	$101,108	$18,704	$119,812
		187653-45	fireproofing	OMC				3	23	III			
		187654-45	fireproofing	OMC				2	23	III			
	The fireproofing is sprayed-on steel I-beams and decking with overspray on adjacent concrete ceilings. It is located over a metal grid drop ceiling and is exposed to heavy traffic in the hallway below. The material is encapsulated with paint, but shows some contact damage.								AREA TOTAL		$101,108	$18,704	$119,812
20	PAN AM — Old Building-Mezzanine Level					AREA AVERAGE % ASB - 41%							
	above drop & semipermanent ceiling	174652-0	corrugated pipe covering	OMA	792	ft. 4 in. O.D.	DW	75	16	IV	$9,504	$5,948	$15,452
	above drop & semipermanent ceiling	174653-12	mjp on corrugate pipe covering	OMA	114	4 in. O.D.	DW	6	16	IV	$4,309	$2,394	$6,703
		174654-12	mjp on corrugate pipe covering	OMA				6	16	IV			
		174655-12	mjp on corrugate pipe covering	OMA				6	16	IV			
	The material types and quantities were estimated from available, although incomplete drawings. The accuracy of these drawings is uncertain.								AREA TOTAL		$13,813	$8,342	$22,155
21	PAN AM — Old Building-Roof-Penthouse					AREA AVERAGE % ASB - 25%							
	throughout-north penthouse	187558-0	corrugated pipe covering	OMA	80	ft. 4 in. O.D.	DW	15	50	II	$960	$601	$1,561
	throughout-north penthouse	187555-37	mjp on non-suspect pipe cover	OMA	365	4 in. O.D.	MMS/R	25	50	II	$13,797	$7,665	$21,462
	throughout-north penthouse	187555-37	mjp on non-suspect pipe cover	OMA	8	6 in. O.D.	MMS/R	25	50	II	$416	$245	$661
		187556-37	mjp on non-suspect pipe cover	OMA				60	50	II			
		187557-37	mjp on non-suspect pipe cover	OMA				25	50	II			
	The material is in fair to poor condition, with isolated areas of contact damage. There is a strong air plenum in this area and vibrations. The material is susceptible to further contact damage. The area is an air handler room which is accessed infrequently.								AREA TOTAL		$15,173	$8,511	$23,684
22	PAN AM — Old Building-Roof					AREA AVERAGE % ASB - 14%							
	middle of roof leading to penthouse	187559-38	mjp on non-suspect pipe cover	OMA	64	4 in. O.D.	MMS/R	15	24	III	$2,419	$1,344	$3,763

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	middle of roof leading to penthouse	187559-38	mjp on non-suspect pipe cover	OMA	39	8 in. O.D.	MMS/R	15	24	III	$2,525	$1,485	$4,010
		187560-38	mjp on non-suspect pipe cover	OMA				15	24	III			
		187561-38	mjp on non-suspect pipe cover	OMA				10	24	III			
	The material consists of mudded joints on metal clad non-suspect lines, coated in tar. The material shows some weather deterioration in places, but appears to be well covered in tar for the most part. This area is accessed infrequently.							AREA TOTAL			$4,944	$2,829	$7,773
23	PAN AM — Old Building-Exterior Piping						AREA AVERAGE % ASB -	%					
	top of column roof supports-exterior	99999-0	mjp on non-suspect pipe cover	OMA	5	8 in. O.D.	DR				$324	$190	$514
	The material is located on top of columns around the perimeter of the building. The material is over 30' high and was inaccessible for sampling. The material appears to be in fair condition with some weather deterioration.							AREA TOTAL			$324	$190	$514
24	PAN AM — New Addition-Lower Level						AREA AVERAGE % ASB -	12%					
	over baggage claim #4	187596-42	fireproofing	OMC	11200	sq.ft.		10	46	II	$404,432	$74,816	$479,248
		187597-42	fireproofing	OMC				15	46	II			
		187598-42	fireproofing	OMC				10	46	II			
		187599-42	fireproofing	OMC				10	46	II			
		187608-42	fireproofing	OMC				2	46	II			
		187609-42	fireproofing	OMC				4	46	II			
		187610-42	fireproofing	OMC				10	46	II			
		187611-42	fireproofing	OMC				10	46	II			
		187612-42	fireproofing	OMC				6	46	II			
		187613-42	fireproofing	OMC				10	46	II			
	over baggage claim #3	187614-43	fireproofing	OMC	16400	sq.ft.		15	46	II	$592,204	$109,552	$701,756
		187615-43	fireproofing	OMC				15	46	II			
		187616-43	fireproofing	OMC				15	46	II			
		187617-43	fireproofing	OMC				12	46	II			
		187618-43	fireproofing	OMC				18	46	II			
		187619-43	fireproofing	OMC				18	46	II			
		187620-43	fireproofing	OMC				12	46	II			
		187621-43	fireproofing	OMC				15	46	II			

AREA #	TENANT / LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			187622-43	fireproofing	OMC				8	46	II			
			187623-43	fireproofing	OMC				15	46	II			
	The material is exposed on the ceilings above a decorative drop ceiling. It is encapsulated with paint, but has areas of damage. There are severe mechanical vibrations from baggage conveyor coming down through the ceiling and the possibility of contact damage from tall baggage exists. The material quantities were estimated from available drawings.								AREA TOTAL			$996,636	$184,368	1,181,004
25	PAN AM	New Addition-Lower Level-MER #1					AREA AVERAGE % ASB - 9%							
	throughout ceiling		187507-26	fireproofing	OMC	4200 sq.ft.			15	69	I	$151,662	$28,056	$179,718
			187508-26	fireproofing	OMC				10	69	I			
			187509-26	fireproofing	OMC				5	69	I			
			187510-26	fireproofing	OMC				5	69	I			
			187511-26	fireproofing	OMC				10	69	I			
	The material is damaged in places and is susceptible to contact damage in an area by a metal ladder, which leads up to MER #1. There is a light air plenum and severe vibrations in this area.								AREA TOTAL			$151,662	$28,056	$179,718
26	PAN AM	New Addition-Lower Level-MER #1-Tanks					AREA AVERAGE % ASB - 24%							
	convertor tank-southeast part of room		187501-24	boiler/tank insulation	OMB	126 sq.ft.			0					
			187502-24	boiler/tank insulation	OMB				0					
			187503-24	boiler/tank insulation	OMB				0					
	HTHW storage tank-southeast part of room		187504-25	boiler/tank insulation	OMB	90 sq.ft.			60	33	III	$4,304	$3,447	$7,751
			187505-25	boiler/tank insulation	OMB				40	33	III			
			187506-25	boiler/tank insulation	OMB				40	33	III			
	The material is in fair to good condition with a few isolated areas of damage.								AREA TOTAL			$4,304	$3,447	$7,751
27	PAN AM	New Addition-Lower Level-MER #1					AREA AVERAGE % ASB - 34%							
	throughout area		174686-0	pipe covering	OMA	90 ft. 4 in. O.D.		HTW/R	55	25	III	$1,080	$676	$1,756
	throughout area		174686-0	pipe covering	OMA	255 ft. 10 in. O.D.		HTW/R	55	25	III	$6,472	$4,794	$11,266
	throughout area		174686-0	pipe covering	OMA	78 ft. 6 in. O.D.		HTW/R	55	25	III	$1,362	$852	$2,214

AREA #	TENANT AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	throughout area	174686-0	pipe covering	OMA	180	ft. 16 in. O.D.	HTW/R	55	25	III	$7,859	$6,548	$14,407
	throughout area	174686-0	pipe covering	OMA	110	ft. 14 in. O.D.	HTW/R	55	25	III	$3,723	$2,945	$6,668
	northwest corner of room	187529-0	corrugated pipe covering	OMA	6	ft. 12 in. O.D.	HWS/R	40	25	III	$178	$137	$315
	throughout room	174687-20	mjp on pipe covering	OMA	24	6 in. O.D.	HTW/R	60	25	III	$1,249	$734	$1,983
	throughout room	174687-20	mjp on pipe covering	OMA	40	14 in. O.D.	HTW/R	60	25	III	$4,664	$2,998	$7,662
	throughout room	174687-20	mjp on pipe covering	OMA	14	4 in. O.D.	HTW/R	60	25	III	$529	$294	$823
	throughout room	174687-20	mjp on pipe covering	OMA	240	10 in. O.D.	HTW/R	60	25	III	$20,213	$12,634	$32,847
	throughout room	174687-20	mjp on pipe covering	OMA	31	16 in. O.D.	HTW/R	60	25	III	$4,263	$3,158	$7,421
		174688-20	mjp on pipe covering	OMA				60	25	III			
		174689-20	mjp on pipe covering	OMA				30	25	III			
	along east wall-north part of room	174690-21	mjp on non-suspect pipe cover	OMA	54	4 in. O.D.	HTW/R	0					
	along east wall-north part of room	174690-21	mjp on non-suspect pipe cover	OMA	30	12 in. O.D.	HTW/R	0					
	along east wall-north part of room	174690-21	mjp on non-suspect pipe cover	OMA	74	6 in. O.D.	HTW/R	0					
		174691-21	mjp on non-suspect pipe cover	OMA				0					
		174692-21	mjp on non-suspect pipe cover	OMA				0					
	throughout room	174693-22	mjp on non-suspect pipe cover	OMA	35	6 in. O.D.	DW	0					
	throughout room	174693-22	mjp on non-suspect pipe cover	OMA	3	10 in. O.D.	DW	0					
	throughout room	174693-22	mjp on non-suspect pipe cover	OMA	40	4 in. O.D.	DW	0					
	throughout room	174693-22	mjp on non-suspect pipe cover	OMA	6	8 in. O.D.	DW	0					
		174694-22	mjp on non-suspect pipe cover	OMA				0					
		174695-22	mjp on non-suspect pipe cover	OMA				0					
	along east wall-throughout	174696-23	mjp on non-suspect pipe cover	OMA	12	6 in. O.D.	DEICE	0					
	along east wall-throughout	174696-23	mjp on non-suspect pipe cover	OMA	25	4 in. O.D.	DEICE	0					
		174697-23	mjp on non-suspect pipe cover	OMA				0					
		174698-23	mjp on non-suspect pipe cover	OMA				0					
	throughout	187526-30	mjp on non-suspect pipe cover	OMA	20	12 in. O.D.	CW	0					
	throughout	187526-30	mjp on non-suspect pipe cover	OMA	14	24 in. O.D.	CW	0					
	throughout	187526-30	mjp on non-suspect pipe cover	OMA	25	6 in. O.D.	CW	0					
	throughout	187526-30	mjp on non-suspect pipe cover	OMA	6	14 in. O.D.	CW	0					
		187527-30	mjp on non-suspect pipe cover	OMA				0					
		187528-30	mjp on non-suspect pipe cover	OMA				0					

The material is in fair condition with isolated areas of contact and water damage. A strong air plenum exists through this room which opens into the customs baggage claim area.

AREA TOTAL $51,592 $35,770 $87,362

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	over semipermanent ceilings		187614-43	fireproofing	OMC	13800	sq.ft.		15	53	II	$498,318	$92,184	$590,502
			187615-43	fireproofing	OMC				15	53	II			
			187616-43	fireproofing	OMC				15	53	II			
			187617-43	fireproofing	OMC				12	53	II			
			187618-43	fireproofing	OMC				18	53	II			
			187619-43	fireproofing	OMC				18	53	II			
			187620-43	fireproofing	OMC				12	53	II			
			187621-43	fireproofing	OMC				15	53	II			
			187622-43	fireproofing	OMC				8	53	II			
			187623-43	fireproofing	OMC				15	53	II			
	The material quantities were estimated from available drawings, the accuracy of which is uncertain. The material is not encapsulated and is above metal panel ceilings in an area which is heavily accessed and has much mechanical vibration from the baggage conveyors.								AREA TOTAL			$498,318	$92,184	$590,502
29	PAN AM	New Addition-Lower Level							AREA AVERAGE % ASB - 42%					
	chases around primeter drive		174686-0	pipe covering	OMA	1270	ft. 14 in. O.D.	HTW/R	55	14	IV	$42,989	$33,998	$76,987
	over ceilings & through baggage claim		174649-11	mjp on non-suspect pipe cover	OMA	38	8 in. O.D.	DW	20	14	IV	$2,461	$1,447	$3,908
	over ceilings & through baggage claim		174649-11	mjp on non-suspect pipe cover	OMA	72	6 in. O.D.	DW	20	14	IV	$3,747	$2,201	$5,948
	over ceilings & through baggage claim		174649-11	mjp on non-suspect pipe cover	OMA	606	4 in. O.D.	DW	20	14	IV	$22,907	$12,726	$35,633
	over ceilings & through baggage claim		174649-11	mjp on non-suspect pipe cover	OMA	14	10 in. O.D.	DW	20	14	IV	$1,179	$737	$1,916
			174650-11	mjp on non-suspect pipe cover	OMA				20	14	IV			
			174651-11	mjp on non-suspect pipe cover	OMA				20	14	IV			
	chases around perimeter drive		174687-20	mjp on pipe covering	OMA	33	14 in. O.D.	HTW/R	60	14	IV	$3,848	$2,473	$6,321
			174688-20	mjp on pipe covering	OMA				60	14	IV			
			174689-20	mjp on pipe covering	OMA				30	14	IV			
	The material types and quantities were estimated from available drawings, the accuracy of these drawings is uncertain. The material is located above permanent and semipermanent ceilings and bathroom pipe chases.								AREA TOTAL			$77,131	$53,582	$130,713
30	PAN AM	New Addition-Lower Level-Ceiling							AREA AVERAGE % ASB - 0%					
	freight elevator service room		187566-0	drop or lay-in panel	ONG	350	sq.ft.		0					

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
								AREA TOTAL			$0	$0	$0
31	PAN AM — New Addition-Lower Level					AREA AVERAGE % ASB - 14%							
	room 1338-janitors closet	187592-41	fireproofing	OMC	92	sq.ft.		15	55	II	$3,322	$615	$3,937
	room 1306	187592-41	fireproofing	OMC	44	sq.ft.		15	55	II	$1,589	$294	$1,883
	room 1310-electrical closet	187592-41	fireproofing	OMC	85	sq.ft.		15	55	II	$3,069	$568	$3,637
	room 1341-janitor's closet	187592-41	fireproofing	OMC	42	sq.ft.		15	55	II	$1,517	$281	$1,798
	room 1311	187592-41	fireproofing	OMC	120	sq.ft.		15	55	II	$4,333	$802	$5,135
	L-28-electrical closets	187592-41	fireproofing	OMC	50	sq.ft.		15	55	II	$1,806	$334	$2,140
	L-8-electrical closets	187592-41	fireproofing	OMC	50	sq.ft.		15	55	II	$1,806	$334	$2,140
	room 1309-electrical closets	187592-41	fireproofing	OMC	180	sq.ft.		15	55	II	$6,500	$1,202	$7,702
	room 1305-electrical closets	187592-41	fireproofing	OMC	33	sq.ft.		15	55	II	$1,192	$220	$1,412
	freight elevator room-shaft ceiling	187592-41	fireproofing	OMC	48	sq.ft.		15	55	II	$1,733	$321	$2,054
	room 1331 with missing ceiling panels	187592-41	fireproofing	OMC	25	sq.ft.		15	55	II	$903	$167	$1,070
	elevator maintenance room by elevator 12	187592-41	fireproofing	OMC	60	sq.ft.		15	55	II	$2,167	$401	$2,568
	room 1815	187592-41	fireproofing	OMC	180	sq.ft.		15	55	II	$6,500	$1,202	$7,702
	room 1316	187592-41	fireproofing	OMC	20	sq.ft.		15	55	II	$722	$134	$856
		187593-41	fireproofing	OMC				10	55	II			
		187594-41	fireproofing	OMC				10	55	II			
		187595-41	fireproofing	OMC				10	55	II			
	The material is in fair condition, but is not encapsulated. There is severe overspray on many of the walls and ceilings. These rooms are subject to mechanical vibrations and are accessed regularly by airport personnel.							AREA TOTAL			$37,159	$6,875	$44,034
32	PAN AM — New Addition-Lower Level					AREA AVERAGE % ASB - 23%							
	room 1826	187548-0	pipe covering	OMA	35	ft. 12 in. O.D.	DW	40	20	III	$1,037	$797	$1,834
	valve room L-2	174693-22	mjp on non-suspect pipe cover	OMA	6	12 in. O.D.	DW	0					
	valve room L-4	174693-22	mjp on non-suspect pipe cover	OMA	9	12 in. O.D.	DW	0					
		174694-22	mjp on non-suspect pipe cover	OMA				0					
		174695-22	mjp on non-suspect pipe cover	OMA				0					
	room 1826	187549-35	mjp on pipe covering	OMA	6	16 in. O.D.	DW	45	20	III	$825	$611	$1,436
	room 1826	187549-35	mjp on pipe covering	OMA	9	12 in. O.D.	DW	45	20	III	$919	$574	$1,493
		187550-35	mjp on pipe covering	OMA				60	20	III			

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		187551-35	mjp on pipe covering	ONA				45	20	III			
	hallway outside room 1406	187552-36	mjp on non-suspect pipe cover	ONA	9	12 in. O.D.	DW	0	20	III	$919	$574	$1,493
		187553-36	mjp on non-suspect pipe cover	ONA				5	20	III			
		187554-36	mjp on non-suspect pipe cover	ONA				0	20	III			
	The material is in fair to good condition and located in rooms on the outside perimeter of the lower level driveway. These rooms are accessed infrequently.							AREA TOTAL			$3,700	$2,556	$6,256
33	PAN AM New Addition-Lower Level							AREA AVERAGE % ASB - 2%					
	lower link building-throughout	187700-0	vinyl floor tile	ONZ	9650	sq.ft.		2	6	IV	$43,811	$33,196	$77,007
	customs area-inspection counters	187700-0	vinyl floor tile	ONZ	2200	sq.ft.		2	6	IV	$9,988	$7,568	$17,556
	The material is in fair condition with some deterioration in places. These areas are accessed frequently.							AREA TOTAL			$53,799	$40,764	$94,563
34	PAN AM New Addition-Apron Level							AREA AVERAGE % ASB - 3%					
	room 2801-electrical room	187568-40	fireproofing	ONC	235	sq.ft.		0	55	II	$8,486	$1,570	$10,056
	cabin service area	187568-40	fireproofing	ONC	16800	sq.ft.		0	55	II	$606,648	$112,224	$718,872
	room 2705-supply area	187568-40	fireproofing	ONC	600	sq.ft.		0	55	II	$21,666	$4,008	$25,674
	elevator motor room	187568-40	fireproofing	ONC	96	sq.ft.		0	55	II	$3,467	$641	$4,108
	room 2759 by line maintenance shop	187568-40	fireproofing	ONC	288	sq.ft.		0	55	II	$10,400	$1,924	$12,324
	building services-unit manager's office	187568-40	fireproofing	ONC	548	sq.ft.		0	55	II	$19,788	$3,661	$23,449
	line maintenance equipmnt shop	187568-40	fireproofing	ONC	900	sq.ft.		0	55	II	$32,499	$6,012	$38,511
	valve room A-13	187568-40	fireproofing	ONC	40	sq.ft.		0	55	II	$1,444	$267	$1,711
		187569-40	fireproofing	ONC				15	55	II			
		187570-40	fireproofing	ONC				0	55	II			
		187571-40	fireproofing	ONC				0	55	II			
		187572-40	fireproofing	ONC				10	55	II			
		187573-40	fireproofing	ONC				15	55	II			
		187574-40	fireproofing	ONC				0	55	II			
		187575-40	fireproofing	ONC				0	55	II			
		187576-40	fireproofing	ONC				0	55	II			
		187577-40	fireproofing	ONC				0	55	II			
		187578-40	fireproofing	ONC				0	55	II			
		187579-40	fireproofing	ONC				15	55	II			

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	OBM CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		187580-40	fireproofing	OHC				10	55	II			
		187581-40	fireproofing	OHC				0	55	II			
		187582-40	fireproofing	OHC				0	55	II			
		187583-40	fireproofing	OHC				0	55	II			
		187584-40	fireproofing	OHC				10	55	II			
		187585-40	fireproofing	OHC				15	55	II			
		187586-40	fireproofing	OHC				0	55	II			
		187587-40	fireproofing	OHC				0	55	II			
		187588-40	fireproofing	OHC				0	55	II			
		187589-40	fireproofing	OHC				0	55	II			
		187590-40	fireproofing	OHC				0	55	II			
	The material is in fair condition, but is not encapsulated. These areas are accessed regularly. The material shows isolated areas of delamination and contact damage, and active fallout can sometimes be observed.							AREA TOTAL			$704,398	$130,307	$834,705
35	PAN AM		New Addit.-Apron Level-Line Maintenance					AREA AVERAGE % ASB -		4%			
	locker room	187568-40	fireproofing	OHC	130	sq.ft.		0	58	II	$4,694	$868	$5,562
		187569-40	fireproofing	OHC				15	58	II			
		187570-40	fireproofing	OHC				0	58	II			
		187571-40	fireproofing	OHC				0	58	II			
		187572-40	fireproofing	OHC				10	58	II			
		187573-40	fireproofing	OHC				15	58	II			
		187574-40	fireproofing	OHC				0	58	II			
		187575-40	fireproofing	OHC				0	58	II			
		187576-40	fireproofing	OHC				0	58	II			
		187577-40	fireproofing	OHC				0	58	II			
		187578-40	fireproofing	OHC				0	58	II			
		187579-40	fireproofing	OHC				15	58	II			
		187580-40	fireproofing	OHC				10	58	II			
		187581-40	fireproofing	OHC				0	58	II			
		187582-40	fireproofing	OHC				0	58	II			
		187583-40	fireproofing	OHC				0	58	II			
		187584-40	fireproofing	OHC				10	58	II			
		187585-40	fireproofing	OHC				15	58	II			
		187586-40	fireproofing	OHC				0	58	II			
		187587-40	fireproofing	OHC				0	58	II			

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			187588-40	fireproofing	OMC				0	58	II			
			187589-40	fireproofing	OMC				0	58	II			
			187590-40	fireproofing	OMC				0	58	II			
		This area is accessed frequently by maintenance personnel. The material is in fair condition but is not encapsulated and shows some damage in isolated areas. This room is subjected to outside mechanical vibrations.								AREA TOTAL		$4,694	$868	$5,562
36	PAN AM	New Addition-Apron Level-Ceilings					AREA AVERAGE % ASB - 0%							
		line maintenance-general office	187591-0	drop or lay-in panel	OMG	120	sq.ft.		0					
		conveyor shop	187591-0	drop or lay-in panel	OMG	800	sq.ft.		0					
		gate 8 lounge	187644-0	drop or lay-in panel	OMG	2450	sq.ft.		0					
		line maintenance-general office	187656-0	acoustical tile	OMG	1200	sq.ft.		0					
		fleet service boardmans office	187656-0	acoustical tile	OMG	450	sq.ft.		0					
		ramp service supervisor's office	187656-0	acoustical tile	OMG	750	sq.ft.		0					
		ramp service general office	187656-0	acoustical tile	OMG	1150	sq.ft.		0					
		room 2754	187656-0	acoustical tile	OMG	1000	sq.ft.		0					
										AREA TOTAL		$0	$0	$0
37	PAN AM	New Addition-Apron Level					AREA AVERAGE % ASB - 0%							
		room 2801	187512-27	mjp on non-suspect pipe cover	OMA	14	12 in. O.D.	CW	0					
			187513-27	mjp on non-suspect pipe cover	OMA				0					
			187514-27	mjp on non-suspect pipe cover	OMA				0					
		auto shop	187515-28	mjp on non-suspect pipe cover	OMA	8	4 in. O.D.	HWS/R	0					
		compactor room	187515-28	mjp on non-suspect pipe cover	OMA	10	8 in. O.D.	HWS/R	0					
		stairwell 2720-2721	187515-28	mjp on non-suspect pipe cover	OMA	4	4 in. O.D.	HWS/R	0					
		room 2727	187515-28	mjp on non-suspect pipe cover	OMA	4	4 in. O.D.	HWS/R	0					
		machine room #2	187515-28	mjp on non-suspect pipe cover	OMA	4	4 in. O.D.	HWS/R	0					
		room 2754	187515-28	mjp on non-suspect pipe cover	OMA	8	4 in. O.D.	HWS/R	0					
		room 2705-supply area	187515-28	mjp on non-suspect pipe cover	OMA	48	4 in. O.D.	HWS/R	0					
		room 2724-cabin service area	187515-28	mjp on non-suspect pipe cover	OMA	67	4 in. O.D.	HWS/R	0					
		room 2724-cabin service area	187515-28	mjp on non-suspect pipe cover	OMA	8	6 in. O.D.	HWS/R	0					
		room 2816-valve room A-13	187515-28	mjp on non-suspect pipe cover	OMA	20	4 in. O.D.	HWS/R	0					
		building services unit managers office	187515-28	mjp on non-suspect pipe cover	OMA	2	4 in. O.D.	HWS/R	0					

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	building services unit managers office	187515-28	mjp on non-suspect pipe cover	ONA	2	6 in. O.D.	MWS/R	0					
	line maint general office-below drop	187515-28	mjp on non-suspect pipe cover	ONA	8	4 in. O.D.	MWS/R	0					
	room 2439	187515-28	mjp on non-suspect pipe cover	ONA	4	4 in. O.D.	MWS/R	0					
	room 2473-compressor room	187515-28	mjp on non-suspect pipe cover	ONA	8	4 in. O.D.	MWS/R	0					
	compactor room	187515-28	mjp on non-suspect pipe cover	ONA	4	4 in. O.D.	MWS/R	0					
		187516-28	mjp on non-suspect pipe cover	ONA				0					
		187517-28	mjp on non-suspect pipe cover	ONA				0					
								AREA TOTAL			$0	$0	$0
38	PAN AM New Addit.-Apron Level-Baggage Handling							AREA AVERAGE % ASB - 0%					
	west side-south end by ceiling heater	174693-22	mjp on non-suspect pipe cover	ONA	7	4 in. O.D.	DW	0					
		174694-22	mjp on non-suspect pipe cover	ONA				0					
		174695-22	mjp on non-suspect pipe cover	ONA				0					
	east side by north side garage door	187512-27	mjp on non-suspect pipe cover	ONA	2	12 in. O.D.	CW	0					
		187513-27	mjp on non-suspect pipe cover	ONA				0					
		187514-27	mjp on non-suspect pipe cover	ONA				0					
	east side by north side garage door	187515-28	mjp on non-suspect pipe cover	ONA	12	4 in. O.D.	MWS/R	0					
	west side-south end	187515-28	mjp on non-suspect pipe cover	ONA	6	4 in. O.D.	MWS/R	0					
	west side-south end	187515-28	mjp on non-suspect pipe cover	ONA	6	6 in. O.D.	MWS/R	0					
	west side-throughout	187515-28	mjp on non-suspect pipe cover	ONA	86	4 in. O.D.	MWS/R	0					
	east side by north side garage door	187515-28	mjp on non-suspect pipe cover	ONA	6	6 in. O.D.	MWS/R	0					
	west side by middle garage door	187515-28	mjp on non-suspect pipe cover	ONA	78	4 in. O.D.	MWS/R	0					
	west side by middle garage door	187515-28	mjp on non-suspect pipe cover	ONA	15	6 in. O.D.	MWS/R	0					
	east side by middle garage door	187515-28	mjp on non-suspect pipe cover	ONA	7	6 in. O.D.	MWS/R	0					
	west side-throughout	187515-28	mjp on non-suspect pipe cover	ONA	46	6 in. O.D.	MWS/R	0					
	east side by northeast garage door	187515-28	mjp on non-suspect pipe cover	ONA	38	4 in. O.D.	MWS/R	0					
	east side by middle garage door	187515-28	mjp on non-suspect pipe cover	ONA	66	4 in. O.D.	MWS/R	0					
	east side by northeast garage door	187515-28	mjp on non-suspect pipe cover	ONA	20	4 in. O.D.	MWS/R	0					
	E side between center & NE garage door	187515-28	mjp on non-suspect pipe cover	ONA	55	4 in. O.D.	MWS/R	0					
	east side by northeast garage door	187515-28	mjp on non-suspect pipe cover	ONA	11	6 in. O.D.	MWS/R	0					
		187516-28	mjp on non-suspect pipe cover	ONA				0					
		187517-28	mjp on non-suspect pipe cover	ONA				0					

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
										AREA TOTAL		$0	$0	$0
39	PAN AM	New Addition-Apron Level-MER #2					AREA AVERAGE % ASB - 0%							
	around primeter walls		174693-22	mjp on non-suspect pipe cover	OMA	25	4 in. O.D.	DW	0					
			174694-22	mjp on non-suspect pipe cover	OMA				0					
			174695-22	mjp on non-suspect pipe cover	OMA				0					
	throughout		187512-27	mjp on non-suspect pipe cover	OMA	75	8 in. O.D.	CWS/R	0					
	throughout		187512-27	mjp on non-suspect pipe cover	OMA	34	6 in. O.D.	CWS/R	0					
	throughout		187512-27	mjp on non-suspect pipe cover	OMA	16	12 in. O.D.	CWS/R	0					
			187513-27	mjp on non-suspect pipe cover	OMA				0					
			187514-27	mjp on non-suspect pipe cover	OMA				0					
	throughout		187515-28	mjp on non-suspect pipe cover	OMA	384	4 in. O.D.	HWS/R	0					
	throughout		187515-28	mjp on non-suspect pipe cover	OMA	7	12 in. O.D.	HWS/R	0					
	throughout		187515-28	mjp on non-suspect pipe cover	OMA	36	6 in. O.D.	HWS/R	0					
			187516-28	mjp on non-suspect pipe cover	OMA				0					
			187517-28	mjp on non-suspect pipe cover	OMA				0					
										AREA TOTAL		$0	$0	$0
40	PAN AM	New Addition-Apron Level-MER #2					AREA AVERAGE % ASB - 20%							
	on ceiling & steel beams-throughout		187518-29	fireproofing	OMC	15600	sq.ft.		20	54	II	$563,316	$104,208	$667,524
			187519-29	fireproofing	OMC				15	54	II			
			187520-29	fireproofing	OMC				10	54	II			
			187521-29	fireproofing	OMC				20	54	II			
			187522-29	fireproofing	OMC				20	54	II			
			187523-29	fireproofing	OMC				20	54	II			
			187524-29	fireproofing	OMC				30	54	II			
			187525-29	fireproofing	OMC				25	54	II			
	The material is in fair condition on the ceiling I-beams with overspray on the concrete ceiling. There is severe noise and vibrations in this room and the material shows damage and delamination in isolated areas.									AREA TOTAL		$563,316	$104,208	$667,524

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
41	PAN AM New Addition-Apron Level					AREA AVERAGE % ASB - 7%							
	above permanent & semipermanent ceiling	174649-11	mjp on non-suspect pipe cover	OMA	72	6 in. O.D.	DW	20	16	IV	$3,747	$2,201	$5,948
	above permanent & semipermanent ceiling	174649-11	mjp on non-suspect pipe cover	OMA	20	8 in. O.D.	DW	20	16	IV	$1,295	$761	$2,056
	above permanent & semipermanent ceiling	174649-11	mjp on non-suspect pipe cover	OMA	450	4 in. O.D.	DW	20	16	IV	$17,010	$9,450	$26,460
		174650-11	mjp on non-suspect pipe cover	OMA				20	16	IV			
		174651-11	mjp on non-suspect pipe cover	OMA				20	16	IV			
	above permanent & semipermanent ceiling	187512-27	mjp on non-suspect pipe cover	OMA	18	6 in. O.D.	HWS/R	0					
		187513-27	mjp on non-suspect pipe cover	OMA				0					
		187514-27	mjp on non-suspect pipe cover	OMA				0					
	above permanent & semipermanent ceiling	187515-28	mjp on non-suspect pipe cover	OMA	225	4 in. O.D.	HWS/R	0					
	above permanent & semipermanent ceiling	187515-28	mjp on non-suspect pipe cover	OMA	56	8 in. O.D.	HWS/R	0					
	above permanent & semipermanent ceiling	187515-28	mjp on non-suspect pipe cover	OMA	8	6 in. O.D.	HWS/R	0					
		187516-28	mjp on non-suspect pipe cover	OMA				0					
		187517-28	mjp on non-suspect pipe cover	OMA				0					
	The material types and quantities were estimated from available although incomplete drawings. The accuracy of these drawings is uncertain. The material is located above permanent or semipermanent ceilings and pipe chases.						AREA TOTAL				$22,052	$12,412	$34,464
42	PAN AM New Addition-Apron Level					AREA AVERAGE % ASB - 4%							
	upper link-above drop & semiperm ceiling	187568-40	fireproofing	OMC	32145	sq.ft.		0	36	III	1,160,756	$214,729	1,375,485
	all areas south of upper link-above drop	187568-40	fireproofing	OMC	126003	sq.ft.		0	36	III	4,549,968	$841,700	5,391,668
		187569-40	fireproofing	OMC				15	36	III			
		187570-40	fireproofing	OMC				0	36	III			
		187571-40	fireproofing	OMC				0	36	III			
		187572-40	fireproofing	OMC				10	36	III			
		187573-40	fireproofing	OMC				15	36	III			
		187574-40	fireproofing	OMC				0	36	III			
		187575-40	fireproofing	OMC				0	36	III			
		187576-40	fireproofing	OMC				0	36	III			
		187577-40	fireproofing	OMC				0	36	III			
		187578-40	fireproofing	OMC				0	36	III			
		187579-40	fireproofing	OMC				15	36	III			
		187580-40	fireproofing	OMC				10	36	III			
		187581-40	fireproofing	OMC				0	36	III			
		187582-40	fireproofing	OMC				0	36	III			

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			187583-40	fireproofing	OMC				0	36	III			
			187584-40	fireproofing	OMC				10	36	III			
			187585-40	fireproofing	OMC				15	36	III			
			187586-40	fireproofing	OMC				0	36	III			
			187587-40	fireproofing	OMC				0	36	III			
			187588-40	fireproofing	OMC				0	36	III			
			187589-40	fireproofing	OMC				0	36	III			
			187590-40	fireproofing	OMC				0	36	III			
		The material is located above the drop and semipermanent ceilings. The material quantities were estimated from available drawings. The actual material quantities may vary. There are numerous missing ceiling tiles and panels, especially on the overhangs surrounding the apron level.							AREA TOTAL			5,710,724	1,056,429	6,767,153
43	PAN AM	New Addition-Apron Level-Baggage Area							AREA AVERAGE % ASB -		4%			
		on ceilings-throughout	187568-40	fireproofing	OMC	224807	sq.ft.		0	65	I	8,117,781	1,501,711	9,619,492
			187569-40	fireproofing	OMC				15	65	I			
			187570-40	fireproofing	OMC				0	65	I			
			187571-40	fireproofing	OMC				0	65	I			
			187572-40	fireproofing	OMC				10	65	I			
			187573-40	fireproofing	OMC				15	65	I			
			187574-40	fireproofing	OMC				0	65	I			
			187575-40	fireproofing	OMC				0	65	I			
			187576-40	fireproofing	OMC				0	65	I			
			187577-40	fireproofing	OMC				0	65	I			
			187578-40	fireproofing	OMC				0	65	I			
			187579-40	fireproofing	OMC				15	65	I			
			187580-40	fireproofing	OMC				10	65	I			
			187581-40	fireproofing	OMC				0	65	I			
			187582-40	fireproofing	OMC				0	65	I			
			187583-40	fireproofing	OMC				0	65	I			
			187584-40	fireproofing	OMC				10	65	I			
			187585-40	fireproofing	OMC				15	65	I			
			187586-40	fireproofing	OMC				0	65	I			
			187587-40	fireproofing	OMC				0	65	I			
			187588-40	fireproofing	OMC				0	65	I			
			187589-40	fireproofing	OMC				0	65	I			

AREA #	TENANT AREA DESCRIPTION LOCATION OF MATERI	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		187590-40	fireproofing	OMC				0	65	I			
	The material is in fair condition with isolated areas of damage. This area is open to the outside and is subject to severe mechanical and noise vibrations from machinary and baggage handling conveyors. There is a strong air plenum through this area occasionally and the area is accessed frequently.							AREA TOTAL			8,117,781	1,501,711	9,619,492
44	PAN AM New Addition-Apron Level					AREA AVERAGE % ASB -		2%					
	cafeteria & hallways area	187698-0	vinyl floor tile	OMZ	98560	sq.ft.		2	7	IV	$447,462	$339,046	$786,508
	upper link building-throughout	187699-0	vinyl floor tile	OMZ	8890	sq.ft.		2	7	IV	$40,361	$30,582	$70,943
	The material has isolated areas of deterioration. These areas are accessed frequently.							AREA TOTAL			$487,823	$369,628	$857,451
45	PAN AM New Addition-Outbound Level					AREA AVERAGE % ASB -		0%					
	throughout concourse	187536-33	mjp on non-suspect pipe cover	OMA	720	4 in. O.D.	DU	0					
		187537-33	mjp on non-suspect pipe cover	OMA				0					
		187538-33	mjp on non-suspect pipe cover	OMA				0					
								AREA TOTAL			$0	$0	$0
46	PAN AM New Add.-Outbound Level-Service Counter					AREA AVERAGE % ASB -		9%					
	east-above open grid ceiling	187596-42	fireproofing	OMC	216	sq.ft.		10	60	I	$7,800	$1,443	$9,243
		187597-42	fireproofing	OMC				15	60	I			
		187598-42	fireproofing	OMC				10	60	I			
		187599-42	fireproofing	OMC				10	60	I			
	west-above open grid ceiling	187608-42	fireproofing	OMC	216	sq.ft.		2	60	I	$7,800	$1,443	$9,243
		187609-42	fireproofing	OMC				4	60	I			
		187610-42	fireproofing	OMC				10	60	I			
		187611-42	fireproofing	OMC				10	60	I			
		187612-42	fireproofing	OMC				6	60	I			
		187613-42	fireproofing	OMC				10	60	I			

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		This material has been sprayed-on the structural steel and decking. Overspray on electrical conduit and ceiling suspension wires was present. The material is located above the Pan Am service counters. There is a decorative grid ceiling which provides no protection from fallout in this area.							AREA TOTAL			$15,600	$2,886	$18,486
47	PAN AM	New Addition-Outbound Level							AREA AVERAGE % ASB - 15%					
		above drop & semipermanent ceilings	187624-44	fireproofing	OMC	344600	sq.ft.		25	34	III	12,443,506	2,301,928	14,745,434
			187625-44	fireproofing	OMC				30	34	III			
			187626-44	fireproofing	OMC				20	34	III			
			187627-44	fireproofing	OMC				18	34	III			
			187628-44	fireproofing	OMC				15	34	III			
			187629-44	fireproofing	OMC				20	34	III			
			187630-44	fireproofing	OMC				10	34	III			
			187631-44	fireproofing	OMC				10	34	III			
			187632-44	fireproofing	OMC				8	34	III			
			187633-44	fireproofing	OMC				12	34	III			
			187634-44	fireproofing	OMC				15	34	III			
			187635-44	fireproofing	OMC				15	34	III			
			187636-44	fireproofing	OMC				8	34	III			
			187637-44	fireproofing	OMC				0	34	III			
			187638-44	fireproofing	OMC				12	34	III			
			187639-44	fireproofing	OMC				15	34	III			
			187640-44	fireproofing	OMC				10	34	III			
			187641-44	fireproofing	OMC				15	34	III			
			187642-44	fireproofing	OMC				10	34	III			
			187643-44	fireproofing	OMC				15	34	III			
			187645-44	fireproofing	OMC				10	34	III			
			187646-44	fireproofing	OMC				12	34	III			
			187647-44	fireproofing	OMC				25	34	III			
			187648-44	fireproofing	OMC				30	34	III			
			187649-44	fireproofing	OMC				25	34	III			
			187650-44	fireproofing	OMC				15	34	III			
			187651-44	fireproofing	OMC				8	34	III			

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	ORM CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	The material is in fair condition and sprayed-on steel beams with overspray on the concrete ceiling. The material quantities were estimated from available drawings. The actual quantity may vary. The areas under this material are accessed by a large number of people daily.							AREA TOTAL			12,443,506	2,301,928	14,745,434
48	PAN AM New Addition-Outbound Level-Ceilings							AREA AVERAGE % ASB - 0%					
	room 3939-janitor's closet	187547-0	drop or lay-in panel	ONG	8	sq.ft.		0					
	throughout	187644-0	drop or lay-in panel	ONG	209500	sq.ft.		0					
								AREA TOTAL			$0	$0	$0
49	PAN AM New Addition-Outbound Level							AREA AVERAGE % ASB - %					
	room 1217-on ceilings	99999-0	transite panels	ONZ	21	sq.ft.					$51	$101	$152
	jetway interior walls	99999-0	transite panels	ONZ	13380	sq.ft.					$32,246	$64,358	$96,604
	The jetway transite could not be sampled without causing extreme cosmetic damage to the areas.							AREA TOTAL			$32,297	$64,459	$96,756
50	PAN AM New Addition-Outbound Level-Maintenance							AREA AVERAGE % ASB - 16%					
	room 3826-electrical closet	187624-44	fireproofing	ONC	110	sq.ft.		25	53	II	$3,972	$735	$4,707
	room 3524	187624-44	fireproofing	ONC	144	sq.ft.		25	53	II	$5,200	$962	$6,162
	room 3729	187624-44	fireproofing	ONC	150	sq.ft.		25	53	II	$5,417	$1,002	$6,419
	room 3713-electrical closet	187624-44	fireproofing	ONC	10	sq.ft.		25	53	II	$361	$67	$428
	room 3939	187624-44	fireproofing	ONC	180	sq.ft.		25	53	II	$6,500	$1,202	$7,702
		187625-44	fireproofing	ONC				30	53	II			
		187626-44	fireproofing	ONC				20	53	II			
		187627-44	fireproofing	ONC				18	53	II			
		187628-44	fireproofing	ONC				15	53	II			
		187629-44	fireproofing	ONC				20	53	II			
		187630-44	fireproofing	ONC				10	53	II			
		187631-44	fireproofing	ONC				10	53	II			
		187632-44	fireproofing	ONC				8	53	II			
		187633-44	fireproofing	ONC				12	53	II			

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	OCM CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		187634-44	fireproofing	OMC				15	53	II			
		187635-44	fireproofing	OMC				15	53	II			
		187636-44	fireproofing	OMC				8	53	II			
		187637-44	fireproofing	OMC				0	53	II			
		187638-44	fireproofing	OMC				12	53	II			
		187639-44	fireproofing	OMC				15	53	II			
		187640-44	fireproofing	OMC				10	53	II			
		187641-44	fireproofing	OMC				15	53	II			
		187642-44	fireproofing	OMC				10	53	II			
		187643-44	fireproofing	OMC				15	53	II			
		187645-44	fireproofing	OMC				10	53	II			
		187646-44	fireproofing	OMC				12	53	II			
		187647-44	fireproofing	OMC				25	53	II			
		187648-44	fireproofing	OMC				30	53	II			
		187649-44	fireproofing	OMC				25	53	II			
		187650-44	fireproofing	OMC				15	53	II			
		187651-44	fireproofing	OMC				8	53	II			
	The material is in fair condition with heavy overspray on the concrete walls and ceilings. These rooms are accessed infrequently by airport personnel.							AREA TOTAL			$21,450	$3,968	$25,418
51	PAN AM	New Addition-Outbound Level					AREA AVERAGE % ASB - 0%						
	stairwell 3938		187530-31	mjp on non-suspect pipe cover	OMA	2 4 in. O.D.		HWS/R	0				
			187531-31	mjp on non-suspect pipe cover	OMA				0				
			187532-31	mjp on non-suspect pipe cover	OMA				0				
								AREA TOTAL			$0	$0	$0
52	PAN AM	New Addition-4th Floor-Mechanical Room					AREA AVERAGE % ASB - 0%						
	throughout		187530-31	mjp on non-suspect pipe cover	OMA	48 8 in. O.D.		HWS/R	0				
	throughout		187530-31	mjp on non-suspect pipe cover	OMA	16 6 in. O.D.		HWS/R	0				
	throughout		187530-31	mjp on non-suspect pipe cover	OMA	357 4 in. O.D.		HWS/R	0				
			187531-31	mjp on non-suspect pipe cover	OMA				0				
			187532-31	mjp on non-suspect pipe cover	OMA				0				

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	throughout	187533-32	mjp on non-suspect pipe cover	OMA	84	8 in. O.D.	CW	0					
	throughout	187533-32	mjp on non-suspect pipe cover	OMA	16	14 in. O.D.	CW	0					
	throughout	187533-32	mjp on non-suspect pipe cover	OMA	32	12 in. O.D.	CW	0					
	throughout	187533-32	mjp on non-suspect pipe cover	OMA	28	10 in. O.D.	CW	0					
		187534-32	mjp on non-suspect pipe cover	OMA				0					
		187535-32	mjp on non-suspect pipe cover	OMA				0					
	throughout	187536-33	mjp on non-suspect pipe cover	OMA	33	4 in. O.D.	DW	0					
		187537-33	mjp on non-suspect pipe cover	OMA				0					
		187538-33	mjp on non-suspect pipe cover	OMA				0					
								AREA TOTAL			$0	$0	$0
53	PAN AM New Addition-4th Floor-Mechanical Room							AREA AVERAGE % ASB -	7%				
	throughout ceiling beams	187539-34	fireproofing	OMC	8500	sq.ft.		10	54	II	$306,935	$56,780	$363,715
		187540-34	fireproofing	OMC				10	54	II			
		187541-34	fireproofing	OMC				10	54	II			
		187542-34	fireproofing	OMC				5	54	II			
		187543-34	fireproofing	OMC				0	54	II			
		187544-34	fireproofing	OMC				15	54	II			
		187545-34	fireproofing	OMC				0	54	II			
	The material is in fair condition on steel beams with overspray on the concrete and conduit. There are severe mechanical vibrations in this area and it is accessed regularly by maintenance personnel.							AREA TOTAL			$306,935	$56,780	$363,715
54	PAN AM New Addition-4th Floor-Ceilings							AREA AVERAGE % ASB -	0%				
	hallways-throughout	187546-0	acoustical tile	OMG	2730	sq.ft.		0					
	in front of room 4248	187547-0	drop or lay-in panel	OMG	198	sq.ft.		0					
	room 4250W	187547-0	drop or lay-in panel	OMG	288	sq.ft.		0					
								AREA TOTAL			$0	$0	$0
55	PAN AM New Addition-4th Floor							AREA AVERAGE % ASB -	8%				

AREA #	TENANT AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	room 4712	187539-34	fireproofing	OMC	495	sq.ft.		10	55	II	$17,874	$3,307	$21,181
	room 4256W	187539-34	fireproofing	OMC	48	sq.ft.		10	55	II	$1,733	$321	$2,054
		187540-34	fireproofing	OMC				10	55	II			
		187541-34	fireproofing	OMC				10	55	II			
		187542-34	fireproofing	OMC				5	55	II			
		187543-34	fireproofing	OMC				0	55	II			
		187544-34	fireproofing	OMC				15	55	II			
		187545-34	fireproofing	OMC				0	55	II			
	This room is accessed infrequently. There is overspray on the ceilings.							AREA TOTAL			$19,607	$3,628	$23,235
56	PAN AM New Addition-4th Floor					AREA AVERAGE % ASB -		0%					
	room 4712	187530-31	mjp on non-suspect pipe cover	OMA	98	4 in. O.D.	HWS/R	0					
		187531-31	mjp on non-suspect pipe cover	OMA				0					
		187532-31	mjp on non-suspect pipe cover	OMA				0					
	room 4712	187533-32	mjp on non-suspect pipe cover	OMA	22	6 in. O.D.	CW	0					
		187534-32	mjp on non-suspect pipe cover	OMA				0					
		187535-32	mjp on non-suspect pipe cover	OMA				0					
								AREA TOTAL			$0	$0	$0
57	PAN AM New Addition-4th Floor-Clipper Club					AREA AVERAGE % ASB -		0%					
	above drop & semipermanent ceilings	187536-33	mjp on non-suspect pipe cover	OMA	42	4 in. O.D.	DW	0					
		187537-33	mjp on non-suspect pipe cover	OMA				0					
		187538-33	mjp on non-suspect pipe cover	OMA				0					
								AREA TOTAL			$0	$0	$0
58	PAN AM New Addition-4th Floor					AREA AVERAGE % ASB -		0%					
	above drop & semipermanent ceilings	174696-23	mjp on non-suspect pipe cover	OMA	12	4 in. O.D.	TW	0					
		174697-23	mjp on non-suspect pipe cover	OMA				0					
		174698-23	mjp on non-suspect pipe cover	OMA				0					

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	QNM CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	RENOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	above drop & semipermanent ceilings	187530-31	mjp on non-suspect pipe cover	ONA	18	8 in. O.D.	NWS/R	0					
		187531-31	mjp on non-suspect pipe cover	ONA				0					
		187532-31	mjp on non-suspect pipe cover	ONA				0					
	above drop & semipermanent ceilings	187536-33	mjp on non-suspect pipe cover	ONA	160	4 in. O.D.	DW	0					
		187537-33	mjp on non-suspect pipe cover	ONA				0					
		187538-33	mjp on non-suspect pipe cover	ONA				0					
								AREA TOTAL			$0	$0	$0
59	PAN AM New Addition-4th Floor							AREA AVERAGE % ASB - 7%					
	above drop & semipermanent ceilings	187539-34	fireproofing	ONC	60650	sq.ft.		10	34	III	2,190,072	$405,142	2,595,214
		187540-34	fireproofing	ONC				10	34	III			
		187541-34	fireproofing	ONC				10	34	III			
		187542-34	fireproofing	ONC				5	34	III			
		187543-34	fireproofing	ONC				0	34	III			
		187544-34	fireproofing	ONC				15	34	III			
		187545-34	fireproofing	ONC				0	34	III			
	The material is in fair condition and sprayed-on steel beams with overspray on the concrete ceiling. The material quantities were estimated from available drawings. The actual amounts may vary. The areas under this material are offices and are used frequently.							AREA TOTAL			2,190,072	$405,142	2,595,214
60	PAN AM New Addition-Penthouse-Intake Rooms							AREA AVERAGE % ASB - 1%					
	south west room	187603-0	fireproofing	ONC	600	sq.ft.		0					
	south, east room	187606-0	fireproofing	ONC	600	sq.ft.		2	72	I	$14,202	$3,072	$17,274
	north & south center rooms	187607-0	fireproofing	ONC	200	sq.ft.		0					
	The material in these areas is fireproofing on structural steel. It is very friable and subject to wind erosion. It is located in the north and south rooms. The area is used for building air intake. The southeast and southwest rooms have very limited accessibility.							AREA TOTAL			$14,202	$3,072	$17,274
61	PAN AM New Addition-Penthouse-Intake Rooms							AREA AVERAGE % ASB - 0%					

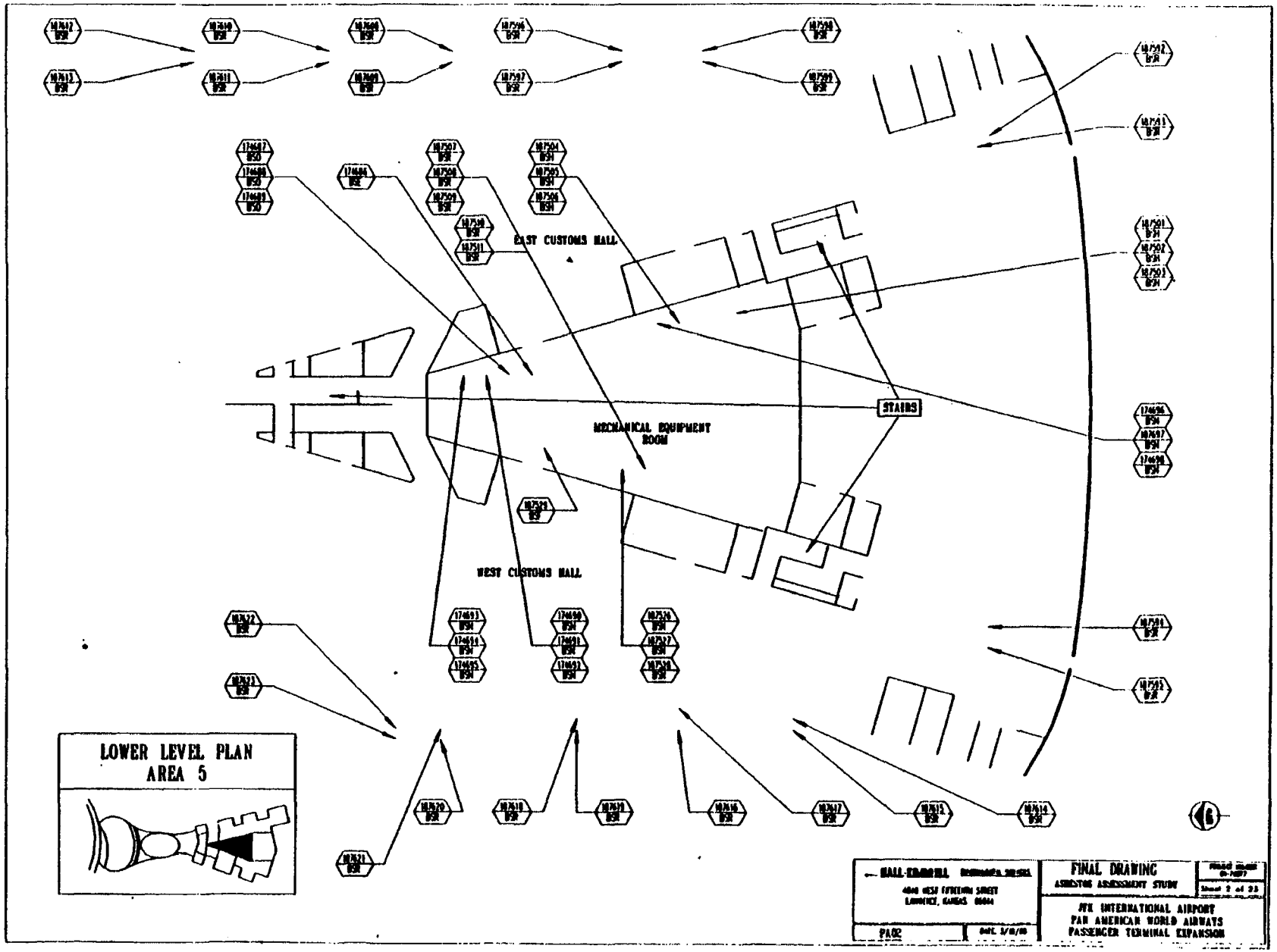
AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		west room on structural steel	187601-0	fireproofing	OMC	1400	sq.ft.		0					
			187602-0	fireproofing	OMC				0					
		east room on structural steel	187604-0	fireproofing	OMC	1400	sq.ft.		0					
			187605-0	fireproofing	OMC				0					
									AREA TOTAL			$0	$0	$0
62	PAN AM	New Addition-Lower Link Bldg-Ceilings							AREA AVERAGE % ASB -	0%				
		throughout lower floor-ceiling	187657-0	acoustical tile	OMG	9880	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
63	PAN AM	New Addition-Lower Link Building							AREA AVERAGE % ASB -	10%				
		throughout	174649-11	mjp on non-suspect pipe cover	OMA	102	4 in. O.D.	DW	20	16	IV	$3,856	$2,142	$5,998
			174650-11	mjp on non-suspect pipe cover	OMA				20	16	IV			
			174651-11	mjp on non-suspect pipe cover	OMA				20	16	IV			
		throughout	187515-28	mjp on non-suspect pipe cover	OMA	46	8 in. O.D.	HWS/R	0					
		throughout	187515-28	mjp on non-suspect pipe cover	OMA	30	4 in. O.D.	HWS/R	0					
			187516-28	mjp on non-suspect pipe cover	OMA				0					
			187517-28	mjp on non-suspect pipe cover	OMA				0					
		The material types and quantities were estimated from available, although incomplete drawings. The material is located above permanent and semipermanent ceilings and between pipe chases. The materials were inaccessible at the time of the survey.							AREA TOTAL			$3,856	$2,142	$5,998
64	PAN AM	New Addition-Upper Link Bldg-Ceilings							AREA AVERAGE % ASB -	0%				
		throughout upper floor	187656-0	acoustical tile	OMG	6400	sq.ft.		0					
									AREA TOTAL			$0	$0	$0

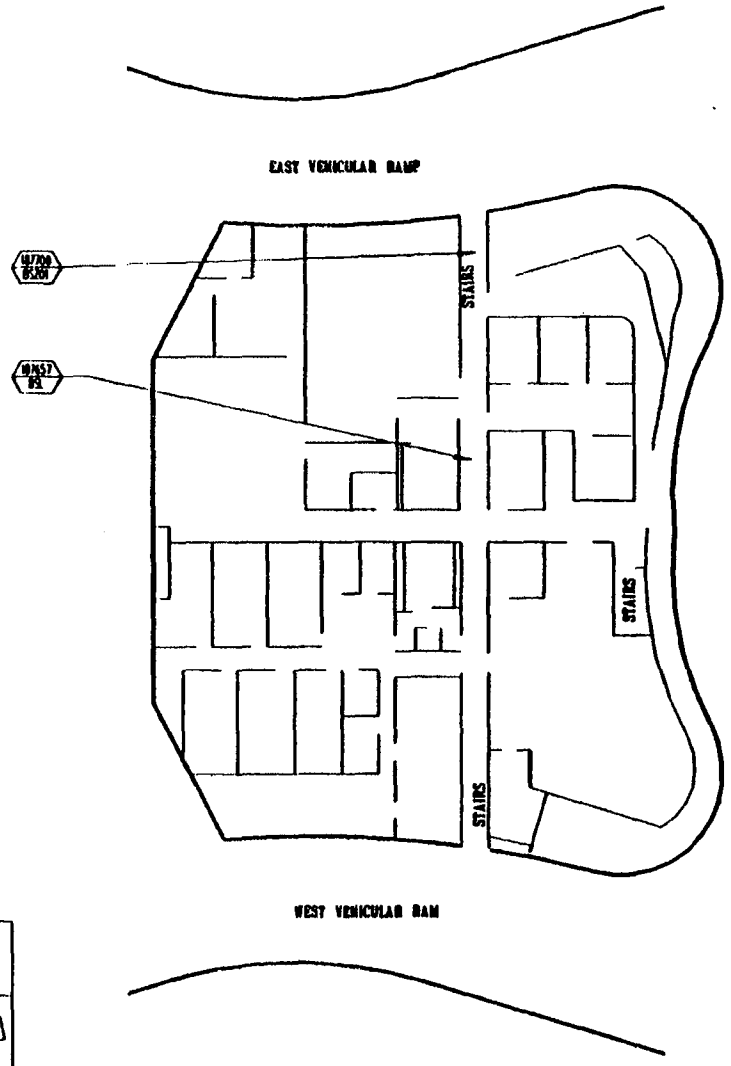
AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	EXP PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
65	PAN AM — New Addition-Upper Link Building					AREA AVERAGE % ASB - 4%							
	room 2219-ceiling	187568-40	fireproofing	OMC	300	sq.ft.		0	42	II	$10,833	$2,004	$12,837
		187569-40	fireproofing	OMC				15	42	II			
		187570-40	fireproofing	OMC				0	42	II			
		187571-40	fireproofing	OMC				0	42	II			
		187572-40	fireproofing	OMC				10	42	II			
		187573-40	fireproofing	OMC				15	42	II			
		187574-40	fireproofing	OMC				0	42	II			
		187575-40	fireproofing	OMC				0	42	II			
		187576-40	fireproofing	OMC				0	42	II			
		187577-40	fireproofing	OMC				0	42	II			
		187578-40	fireproofing	OMC				0	42	II			
		187579-40	fireproofing	OMC				15	42	II			
		187580-40	fireproofing	OMC				10	42	II			
		187581-40	fireproofing	OMC				0	42	II			
		187582-40	fireproofing	OMC				0	42	II			
		187583-40	fireproofing	OMC				0	42	II			
		187584-40	fireproofing	OMC				10	42	II			
		187585-40	fireproofing	OMC				15	42	II			
		187586-40	fireproofing	OMC				0	42	II			
		187587-40	fireproofing	OMC				0	42	II			
		187588-40	fireproofing	OMC				0	42	II			
		187589-40	fireproofing	OMC				0	42	II			
		187590-40	fireproofing	OMC				0	42	II			
	The material is in fair condition with much overspray on the concrete ceiling. This room is accessed infrequently.								AREA TOTAL		$10,833	$2,004	$12,837
66	PAN AM — New Addition-Upper Link Building					AREA AVERAGE % ASB - 10%							
	throughout	174649-11	mjp on non-suspect pipe cover	OMA	115	4 in. O.D.	DW	20	16	IV	$4,347	$2,415	$6,762
		174650-11	mjp on non-suspect pipe cover	OMA				20	16	IV			
		174651-11	mjp on non-suspect pipe cover	OMA				20	16	IV			
	throughout	187515-28	mjp on non-suspect pipe cover	OMA	12	8 in. O.D.	MWS/R	0					
	throughout	187515-28	mjp on non-suspect pipe cover	OMA	49	4 in. O.D.	MWS/R	0					
		187516-28	mjp on non-suspect pipe cover	OMA				0					

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			187517-28	mjp on non-suspect pipe cover	OMA				0					
		The material types and quantities were estimated from available, although incomplete drawings. The material is located above permanent and semipermanent ceilings and between bathroom pipe chases. These areas were inaccessible at the time of the survey.							AREA TOTAL			$4,347	$2,415	$6,762
67	PAN AM	External Gate Jetways					AREA AVERAGE % ASB - 0%							
		external jetways around	187562-39	weatherproof coating	OM2	36940	sq.ft.		0					
			187563-39	weatherproof coating	OM2				0					
			187564-39	weatherproof coating	OM2				0					
									AREA TOTAL			$0	$0	$0
							TENANT - PAN AM		TOTAL			32,904,466	6,658,026	39,562,492

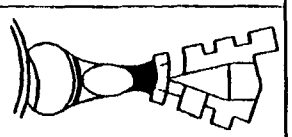
AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
68	U.S. CUSTOMS — New Addition-Lower Level-Baggage Claim					AREA AVERAGE % ASB - 14%							
	above drop & semipermanent ceilings	187614-43	fireproofing	OMC	17400	sq.ft.		15	20	III	$628,314	$116,232	$744,546
		187615-43	fireproofing	OMC				15	20	III			
		187616-43	fireproofing	OMC				15	20	III			
		187617-43	fireproofing	OMC				12	20	III			
		187618-43	fireproofing	OMC				18	20	III			
		187619-43	fireproofing	OMC				18	20	III			
		187620-43	fireproofing	OMC				12	20	III			
		187621-43	fireproofing	OMC				15	20	III			
		187622-43	fireproofing	OMC				8	20	III			
		187623-43	fireproofing	OMC				15	20	III			
	The material quantities were estimated from available drawings where accuracy is unknown. The material is not encapsulated and is above metal panel ceilings in an area which is heavily accessed and has much mechanical vibrations from the baggage conveyors.						AREA TOTAL				$628,314	$116,232	$744,546
69	U.S. CUSTOMS — New Addition-Lower Level					AREA AVERAGE % ASB - 11%							
	ceiling over agent's cubicles	187592-41	fireproofing	OMC	3780	sq.ft.		15	46	II	$136,496	$25,250	$161,746
		187593-41	fireproofing	OMC				10	46	II			
		187594-41	fireproofing	OMC				10	46	II			
		187595-41	fireproofing	OMC				10	46	II			
	ceiling over baggage claim areas 5 & 6	187596-42	fireproofing	OMC	15156	sq.ft.		10	46	II	$547,283	$101,242	$648,525
		187597-42	fireproofing	OMC				15	46	II			
		187598-42	fireproofing	OMC				10	46	II			
		187599-42	fireproofing	OMC				10	46	II			
		187608-42	fireproofing	OMC				2	46	II			
		187609-42	fireproofing	OMC				4	46	II			
		187610-42	fireproofing	OMC				10	46	II			
		187611-42	fireproofing	OMC				10	46	II			
		187612-42	fireproofing	OMC				6	46	II			
		187613-42	fireproofing	OMC				10	46	II			
	ceiling over baggage claim areas 1 & 2	187614-43	fireproofing	OMC	14868	sq.ft.		15	46	II	$536,883	$99,318	$636,201
		187615-43	fireproofing	OMC				15	46	II			
		187616-43	fireproofing	OMC				15	46	II			
		187617-43	fireproofing	OMC				12	46	II			

AREA #	TENANT AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	OHM CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		187618-43	fireproofing	OHC				18	46	II			
		187619-43	fireproofing	OHC				18	46	II			
		187620-43	fireproofing	OHC				12	46	II			
		187621-43	fireproofing	OHC				15	46	II			
		187622-43	fireproofing	OHC				8	46	II			
		187623-43	fireproofing	OHC				15	46	II			
	The material is on the exposed ceilings over the baggage carousels and customs counters. The material is encapsulated with paint but is damaged and exposed in several areas. There are severe mechanical vibrations from baggage conveyors coming down through the ceiling to the carousels and the possibility of baggage contact damage exists. The material quantities were estimated from available, but incomplete drawings.							AREA TOTAL			1,220,662	$225,810	1,446,472
							TENANT - U.S. CUSTOMS		TOTAL		1,848,976	$342,042	2,191,018
							BUILDING TOTAL				34,840,106	7,016,100	41,856,206


EAST CUSTOMS HALL
MECHANICAL EQUIPMENT ROOM
STAIRS
WEST CUSTOMS HALL
LOWER LEVEL PLAN
AREA 5
HALL-KIMBRELL
FINAL DRAWING
ASBESTOS ASSESSMENT STUDY
JFK INTERNATIONAL AIRPORT
PAN AMERICAN WORLD AIRWAYS
PASSENGER TERMINAL EXPANSION
PA02



LOWER LEVEL PLAN
AREA 4



SECURITY AREA
PILOTS AND FLIGHT ATTENDENTS LOUNGE

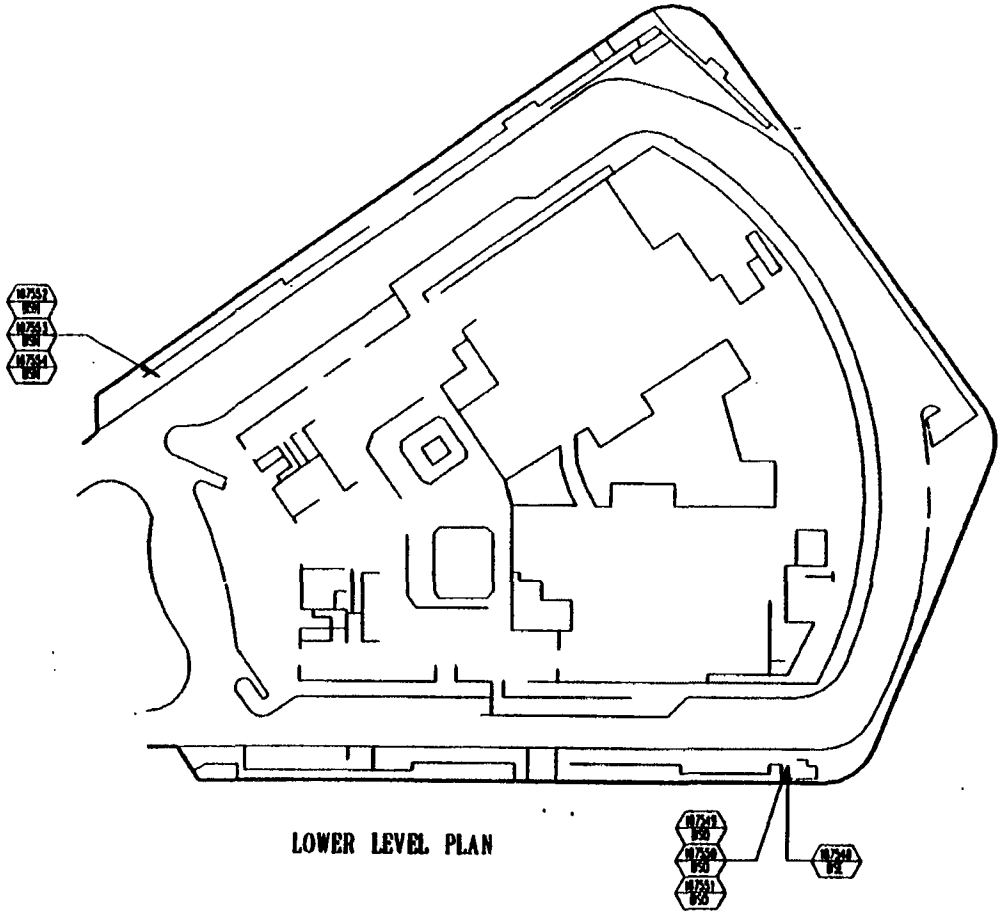
— HALL-TERRELL —
4840 WEST FIFTEENTH STREET
LAWRENCE, KANSAS 66044

PAGH | DATE 3/8/88

FINAL DRAWING
ASBESTOS ASSESSMENT STUDY

Sheet 1 of 23

JFK INTERNATIONAL AIRPORT
PAN AMERICAN WORLD AIRWAYS
PASSENGER TERMINAL EXPANSION



LOWER LEVEL PLAN

HALL-KIMBRELL

4840 WEST FIFTEENTH STREET
LAWRENCE, KANSAS 66044

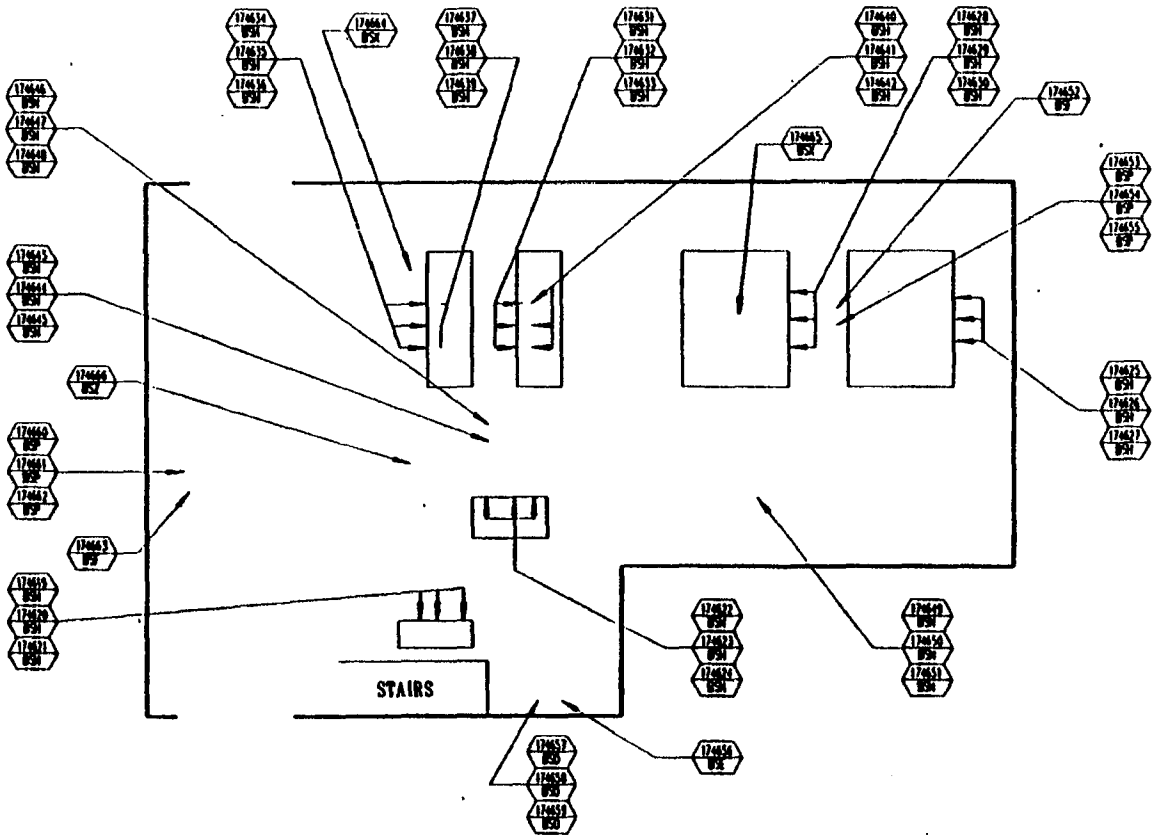
SCALE: 1/16" = 1'

DATE: 2/18/88

FIANL DRAWING
ASBESTOS ASSESSMENT STUDY

JFK INTERNATIONAL AIRPORT
PAN AMERICAN WORLD AIRWAYS
PASSENGER TERMINAL EXPANSION

PA19



GROUND LEVEL
MECHANICAL ROOM #1

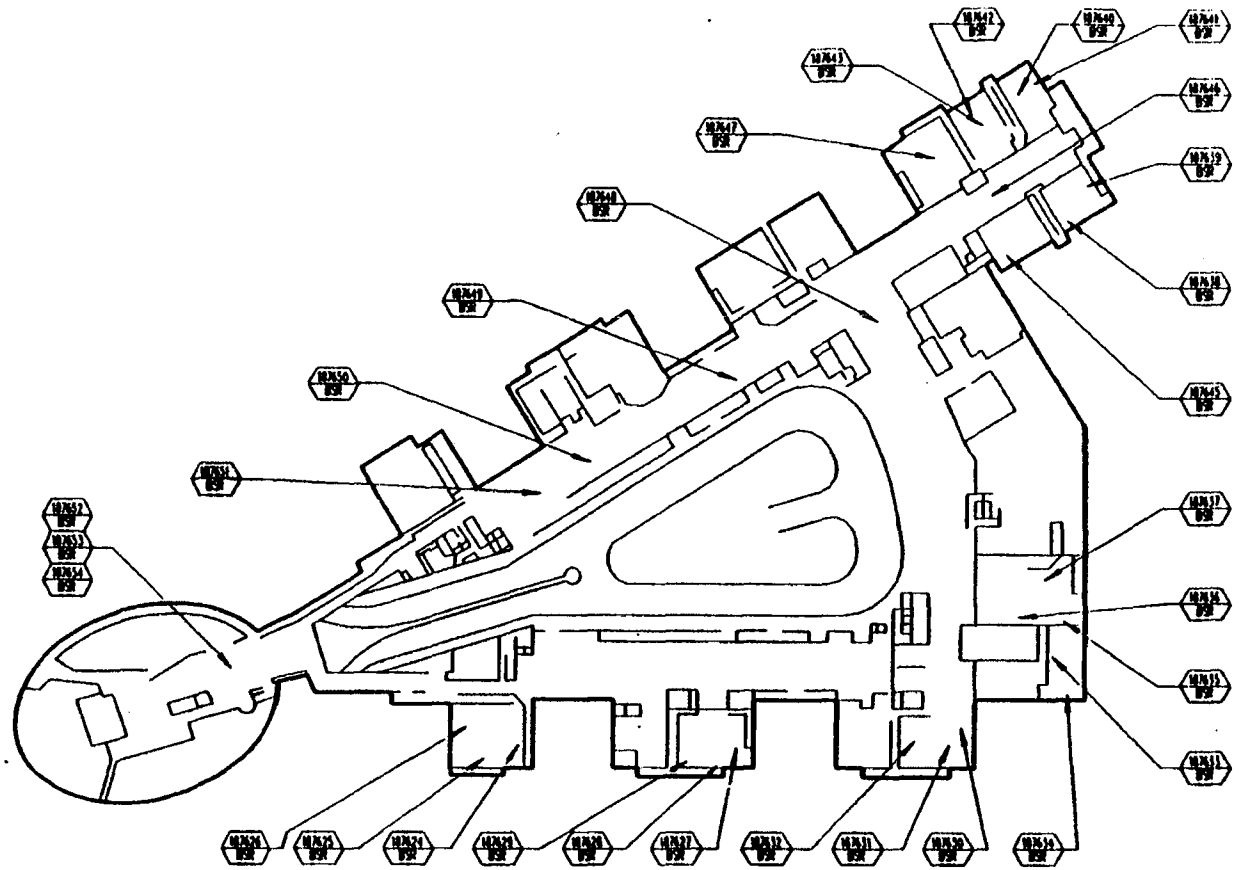
BALL-KNOBBELL
4040 WEST FIFTEENTH STREET
LAWRENCE, KANSAS 66044

PA23

FINAL DRAWING
ASBESTOS ASSESSMENT STUDY

Sheet 23 of 23

JFK INTERNATIONAL AIRPORT
PAN AMERICAN WORLD AIRWAYS
PASSENGER TERMINAL EXPANSION



CONCOURSE LEVEL PLAN

HALL-EMMOTT [illegible]
4040 WEST FIFTEENTH STREET
LAWRENCE, KANSAS 66044

SCALE: 1/8" = 1'

DATE: 3/8/88

FINAL DRAWING
ASBESTOS ASSESSMENT STUDY

PROJECT NUMBER [illegible]

Sheet [illegible] of 23

JFK INTERNATIONAL AIRPORT
PAN AMERICAN WORLD AIRWAYS
PASSENGER TERMINAL EXPANSION

PA18

THE PORT AUTHORITY OF NY & NJ

One World Trade Center
New York, N.Y. 10048

Office of Senior
Litigation Counsel

Milton H. Pachter
Senior Litigation Counsel
(212) 432-6157

August 17, 1988
PORT AUTHORITY OF NY & NJ

1988 AUG 18 A 10:22

ASBESTOS LITIGATION
TASK FORCE

MEMORANDUM

Re: Defendants' Inspection Activities Port Authority, et al v. Allied Corporation, et al.

Gentlemen:

Please be advised of the following additions in reference to the asbestos removal schedule regarding abatement projects at Port Authority facilities. Where plaintiffs are able to provide defendants with at least forty-five (45) days notice of abatement, if defendants plan to conduct inspection activities at a property subject to abatement in this notice, the defendants shall provide the plaintiffs with written notice served by hand upon plaintiffs no later than twenty-five (25) days from the date of this notice. If the notice of inspection is served by certified mail, return receipt requested, it must be postmarked at least twenty (20) days from the date of this notice.

[redacted]

(4) John F. Kennedy International Airport, Building No. 53, Pan Am Worldport, Concourse level (Job No. T215.022); an asbestos removal contract has been established; approximately 530 square feet of spray-on fireproofing is being removed at an estimated cost of $30,000.00.

There is currently no Port Authority asbestos control program survey data available for the above-referenced areas.

Also enclosed are contract specifications for item "1" - Building 52 at JFK -- extracted from construction records and other sources. (There is currently no information available regarding items "2" and "3"). The material provided may not apply to the particular area which is the subject of this removal. The manufacturers listed in this data are possible manufacturers. Defendants expressly assume the risk of relying on such information to their own detriment and may not use the fact of such reliance as grounds to preclude the plaintiffs from offering any evidence as to any manufacturer of such material.

PA LAW DEPARTMENT
61623

Pending agreement or assignment of lead counsel for defendants, as additional information becomes available relating to Port Authority abatement activities, it will be forwarded to all counsel who have appeared and/or demanded a complaint.

If there are any questions concerning inspection activities please do not hesitate to call the undersigned.

Very truly yours,

Ann Marie Christie

Ann Marie Christie
Attorney
(212) 432-6136

THE PORT OF NEW YORK AUTHORITY

NEW YORK INTERNATIONAL AIRPORT

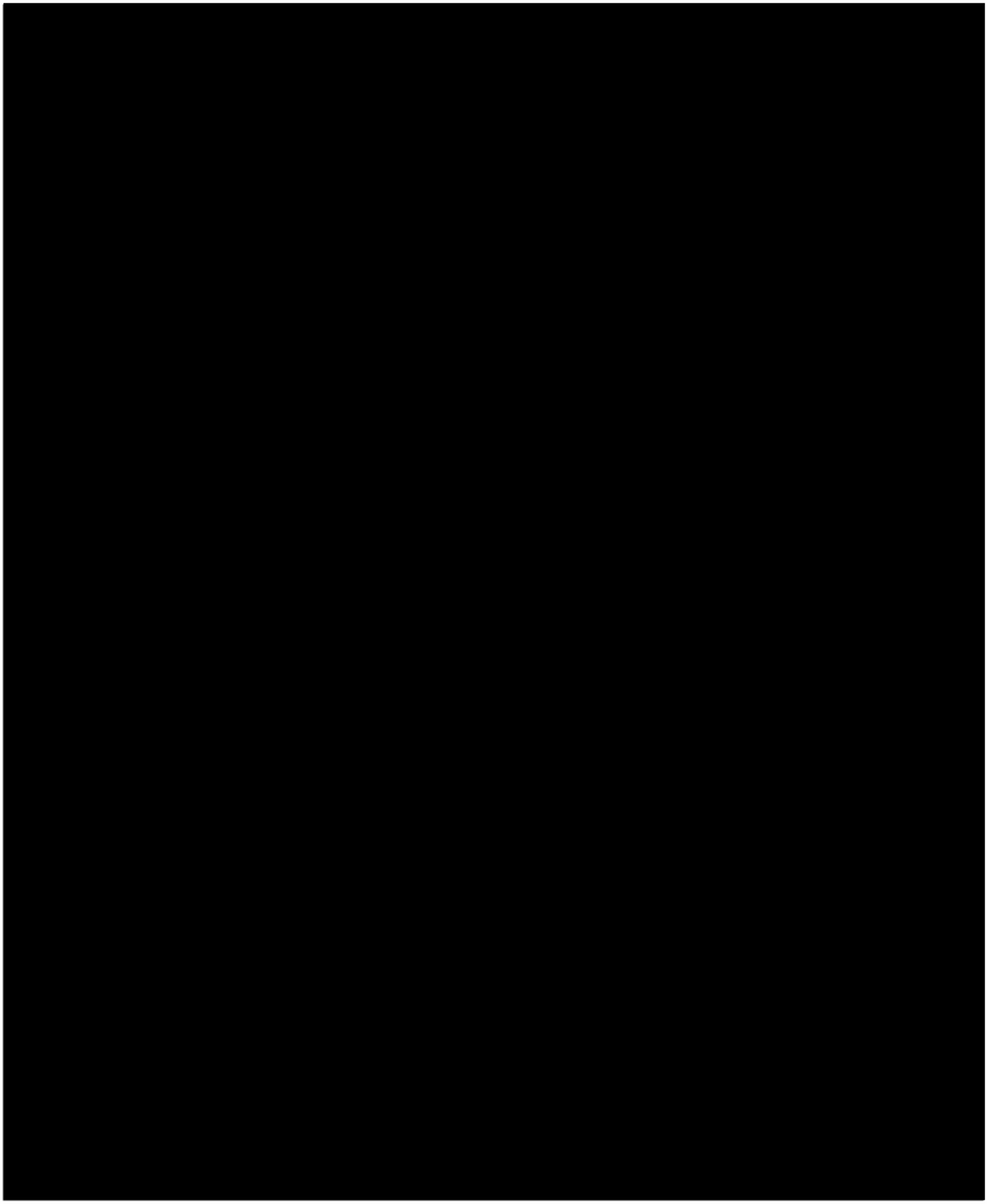
INTERNATIONAL ARRIVAL AND AIRLINE WING BUILDINGS

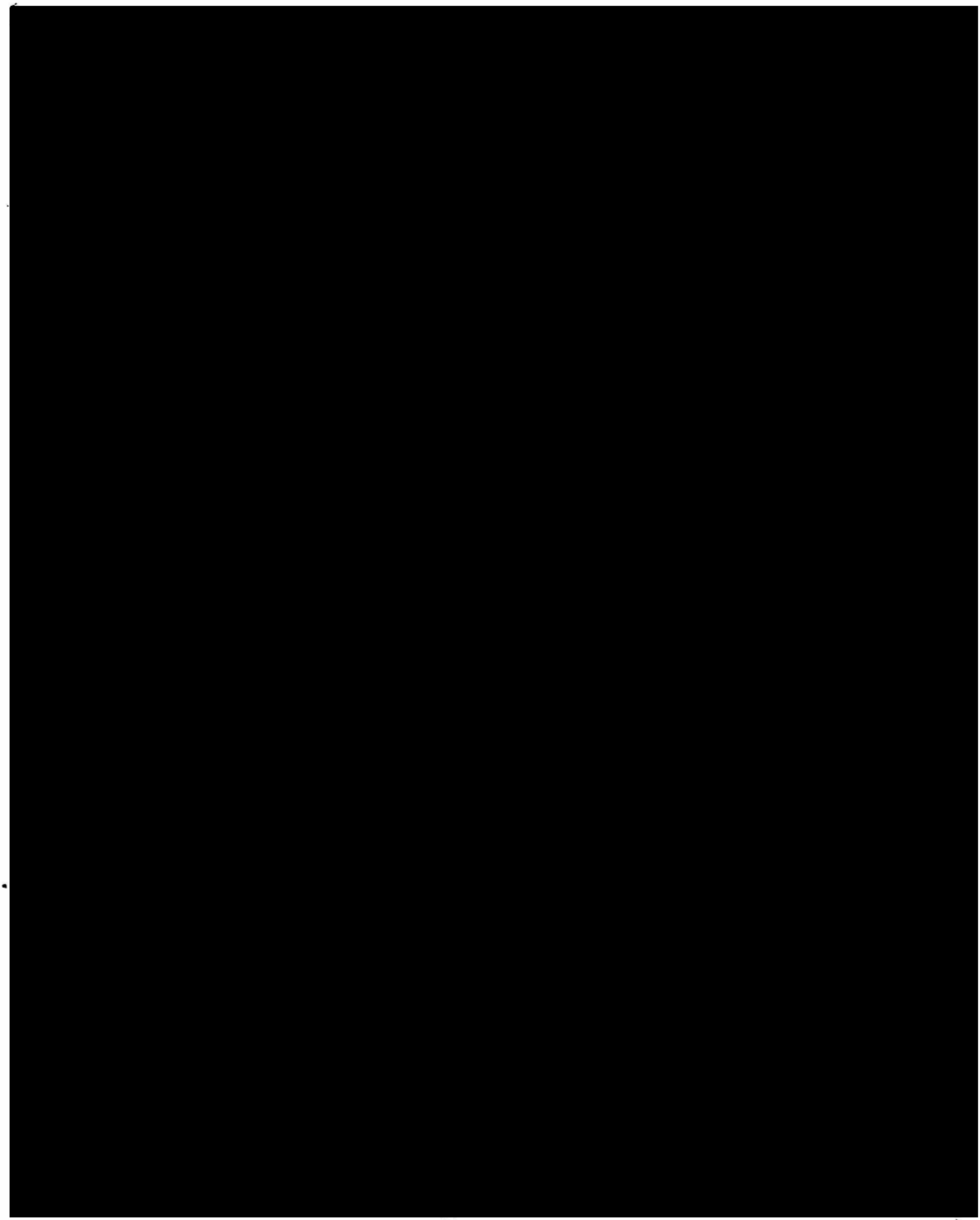
SUPERSTRUCTURE

CONTRACT NYA-650.01

PART THREE OF THREE PARTS

APRIL 1956





8-ENG

February 20, 1989

Note to: Tom Corlett
Director Facilities
Worldport

Subject: EXTENSION TO OUTBOUND BAGGAGE ROOM (9MU PROJECT)

In accordance with the asbestos removal specifications prepared by ATC Environmental Inc. for the referenced project, this will serve to confirm that the following action will be taken and maintained, insofar as, providing the following measures regarding the existing overhead HVAC ductwork (occupying approximately 20% of the work area which consists of supply and return air systems).

1. The supply air which cannot be shutdown by regulation supplies areas of our terminal that are occupied on a 24-hour basis.

2. The following measures shall be taken to insure the integrity of HVAC systems during asbestos removal activity.

a. the contractor shall seal all exhaust duct dampers (i.e. plywood sheeting and caulking if necessary.

b. the contractor shall seal all ductwork and plenum joints with duct tape followed by two layers of 6 mil polyethylene.

c. Pan Am shall shutdown the return fans, if required.

d. Pan Am shall make sure the supply fan be placed in a manual "on" bypass fail safes.

3. The mechanical supervisors responsible for this operation have worked for Pan Am in this capacity for over 10 years.

4. The supervisors assigned to monitor this operation will do so during the abatement activity.

I will advise the approved schedule.

C.W. Bull
Manager Facility Projects

PA LAW DEPARTMENT
61671

8-ENG

PORT AUTHORITY OF NEW YORK AND NEW JERSEY
Asbestos Certification Letter and Permit Application

Y-6062A

Instructions: Part One or Two of the Asbestos Certification Letter and Permit Application shall be completed and submitted with form PA-531. If Part Two indicates that asbestos containing material will be disturbed during the term of the project, then complete Part Three, Asbestos Abatement Permit Application.

FEB 23 P2:

Part One - Certification of a Non-Asbestos Project

The area of construction has been surveyed and no asbestos containing material (ACM) is present or will be disturbed during the course of this project. Complete one of the following:

NJ Facility:

Name of Professional Engineer or Architect	Signature of Professional Engineer or Architect	License No.	Date

NY Facility: PAN AMERICAN WORLDPORT, Building # 53, BAGGAGE/CONVEYOR MODIFICATION MAINTENANCE STORAGE AREA.

Name of Certified NYC Investigator	Signature of Certified NYC Investigator	Certification Number	Date

Part Two - Certification of an Asbestos Project

The area of construction has been surveyed, samples have been taken and the test results of the suspect asbestos containing material (acm) reveals the following:

ACM - PRODUCT	TYPE OF ASBESTOS	APPROX. % OF ASBESTOS	No. of Samples	No. of Positive
Spray-on Material	Chrysotile	10	3	2
Pipe Insulation				
Boiler Insulation				
Other WALL & TILE	N/A	N/A	3	-0-

Note: Type of Asbestos = Chrysotile, Amosite, Crocidolite, Anthophyllite, Tremolite and Actinolite

ALBERT PEREZ		ABIH # 3300	2/16/89
Name of Certified Environmental Consultant	Signature of Certified Environmental Consultant	Environmental Consultant Certificate No.	Date

PORT AUTHORITY OF NEW YORK AND NEW JERSEY
Asbestos Certification Letter and Permit Application

6-ENG

Instructions: Part One or Two of the Asbestos Certification Letter and Permit Application shall be completed and submitted with form PA-531. If Part Two indicates that asbestos containing material will be disturbed during the term of the project, then complete Part Three, Asbestos Abatement Permit Application.

Part One - Certification of a Non-Asbestos Project

The area of construction has been surveyed and no asbestos containing material (ACM) is present or will be disturbed during the course of this project. Complete one of the following:

NJ Facility:

Name of Professional Engineer or Architect	Signature of Professional Engineer or Architect	License No.	Date

NY Facility: Pan American Worldport, Building #53, West Y-6080A Oddsize (Oversize) Baggage Conveyor System.

Name of Certified NYC Investigator	Signature of Certified NYC Investigator	Certification Number	Date

Part Two - Certification of an Asbestos Project

The area of construction has been surveyed, samples have been taken and the test results of the suspect asbestos containing material (acm) reveals the following:

ACM - PRODUCT	TYPE OF ASBESTOS	APPROX. % OF ASBESTOS	No. of Samples	No. of Positive
Spray-on Material	Chrysotile	10-20	8	5
Pipe Insulation				
Boiler Insulation				
Other Spray-On	Amosite	Trace	1	1

Note: Type of Asbestos - Chrysotile, Amosite, Crocidolite, Anthophyllilite, Tremolite and Actinolite

Name of Certified Environmental Consultant	Signature of Certified Environmental Consultant	Environmental Consultant Certificate No.	Date
ALBERT PEREZ		ABIH #3300	2/27/89

PA LAW DEPARTMENT
61678

Part Three - Asbestos Abatement Permit Application

A. LOCATION:
Facility — JFK INTERNATIONAL AIRPORT
Building No. — 6-ENG / #53
Building Area — ODDSIZE (OVERSIZE) CONVEYER MODIFICATION
A. Boiler Room
B. Mechanical Equipment Room
C. Other

B. PURPOSE: Reason for abatement: Operation & Maintenance ____
Demolition ____ Renovation X Other ____

C. SCOPE OF WORK, TYPE OF MATERIAL AND ASSOCIATED COSTS:
(Cost information is not necessary if Waiver is signed)

1. Removal	Boiler Insulation	SQ.FT.
	Pipe Insulation	L.FT.
	Pipe Elbows/Fittings	#
	Duct Insulation	SQ.FT.
	Spray-on Fireproofing	850 SQ.FT.
	Transite Material	SQ.FT.
	Cable Insulation	L.FT.
	Other	
	Total Cost Of Abatement (Materials, Labor, Disposal, etc.) *	$ 35,000.00
2. Replacement	Boiler Insulation	SQ.FT.
	Pipe Insulation	L.FT.
	Pipe Elbows/Fittings	#
	Duct Insulation	SQ.FT.
	Spray-on Fireproofing	850 SQ.FT.
	Transite Material	SQ.FT.
	Cable Insulation	
	Other	
	Total Cost Of Replacement (Materials, Labor, etc.) *	$ 2,500.00
3. Cleanup/Repair	(Indicate Quantity	5200 CU.FT.
	Total Cost Of Cleanup (Labor, Disposal, etc.)*	$ 37,500.00
4. Size Of Site Containment		850 SQ.FT.

5. Does the scope of work described in this tenant alteration application include work other than asbestos abatement ? Yes X No ___

* Estimate of costs required only if tenant wishes to participate in the Port Authority lawsuit against miners and manufacturers of asbestos products found within Port Authority buildings.

6-ENG

D. ABATEMENT METHOD
1. Glove Bag Procedure
2. Full Site Containment
3. Partial Containment ✓
4. Structural Containment (Enclosure)
5. Other

E. ASBESTOS ABATEMENT CONTRACTOR
Name: HIED Co. INC.
License Number: AC-88-0431
Address: 62 PORETE AVE, NORTH ARLINGTON, NJ 0703.
Telephone Number: 201-991-2918
Contractor Project Supervisor: JAN SZYMANSKI
Principal: ARTHUR BARIS

F. ASBESTOS WASTE DISPOSAL HAULER
Name: ASBESTOS DISPOSAL AGENCY
Address: 170 CHANGEBRIDGE ROAD, MONTVILLE 0704
Telephone Number: 201-227-8160

G. ENVIRONMENTAL LAB
Name: ATC ENVIRONMENTAL, INC.
Address: 104 E. 25TH STR. NYC. 10010
Telephone Number: 212-353-8280

H. ESTIMATED ABATEMENT SCHEDULE (see attached Waiver Letter)
Start Date: _____ Completion Date: _____

I. TENANT CONTACT
Name: MR. AL BROWN
Telephone Number: 718-632-2250

Part Four - INFORMATION TO BE FURNISHED BY THE LINE DEPARTMENT

A. TAA No.: Y-6080A Cost Recovery No.: 215-062
B. Line Department Project Manager: Paul Fernandez
Telephone Number: (718) 656-2584

Part Five - APPROVAL BY PORT AUTHORITY:

The asbestos abatement permit application has been reviewed and the specifications, drawings, and the information in items 3-7 have been approved.

Environmental Engineering
Signature: _____
Title: _____
Date: 6/9/89

Environmental Management Division
Signature: _____
Title: _____
Date: 6/9/89
Permit No. _____

AMD – 13

TENANT REVIEW REQUEST

	DISTRIBUTION	LOCATION
1	Engineering	1WTC-43E
	Trfc. Eng.	PATC -73
	Insp & Safety	25 JSTC-57
	Avia. Plng.	1WTC-65E
	Avia. Tech. Svs.	1 WTC-65NE
	Law Dept.	1 WTC-66W
1	P. TAYLOR / T. FONTANETTA	
	Ops.	Bldg. 269
	Trm.Svcs.	
	Police	Bldg. 269
	Pl.&St.	
1	Res. Eng.	
	Negot.	
1	L. VERNON B. PRUNO	
1	P. Fernandez	
1	FILE	

Description of Work:
BLDG 53
DEPARTURE LEVEL DRIVEWAY
CEILING HANGERS ASBESTOS
REMOVAL

FACILITY: JFKIA
APPL. NAME: PAN AM
APPL. NO.: Y-6142A
DWG NOS.: —
DATE: 7126189

☑ Please review the attached ~~application~~ Package & send comments to:

☐ Attached are revised dwgs. Please review only those items o which exception was previously taken & send comments to:

661 (~~Org.~~ Unit) | Bldg. 141 KIA-Rm.240 (Room No.) | Eileen Spolidora (Contact) | 62586 (Ext.)

No later than 8/14/89

If no reply is received by above date, your concurrence will be assumed unless arrangements are made for more review time!!

COMMENTS: Indicate next to each comment whether it is a condition or recommendation.

ATTACHED:

(1) ATC PACKAGE

PA LAW DEPARTMENT
62382

6142A

AMD-13

PAN AMERICAN WORLD AIRWAYS, INC.
PAN AMERICAN WORLDPORT, BUILDING 353
DEPARTURE LEVEL DRIVEWAY CEILING
JFK INTERNATIONAL AIRPORT
JAMAICA, NEW YORK 11430

SMALL ASBESTOS REMOVAL AND DISPOSAL - NEW YORK

SECTION 02082

APPENDIX "A"

1. DESCRIPTION

This Section specifies removal of the black iron and the over spray-on material from the support rods (hangers) located outside above the departure level driveway at the Pan American Worldport Building #53. The work area is divided into two sections, the east and west section, each have 1750 square feet of ceiling area. The combined asbestos containing material to be disturbed is less than 160 square feet. The removal shall be accomplished with a modified glove bag within a movable enclosure as outlined in item 11. of this section.

2. ASBESTOS TYPES(S)

Test results of asbestos-bearing material to be removed indicated that such material contains the following type(s) of asbestos:

Asbestos Bearing Material	Asbestos Type	Approx. percent by by Weight of asbestos in asbestos bearing Material
Over Spray-on Material	Chrysotile	3 - 5%

3. MOVEABLE ITEMS

In addition to all obviously moveable items and those items shown on the Contract Drawings to be removed, if any.

4. CONSTRUCTION SITE WATER

Construction site hot and cold water is available at the construction site without charge at the location(s) designated by the Engineer, subject to such conditions and precautions upon its use as may be imposed by the Engineer. Provide connections to existing facilities,

9. RE-ESTABLISHMENT OF SYSTEMS AND OBJECTS

Re-establish utility services that were disconnected by install new filters in air moving system(s) affected by work of this Section. Relocate to their original locations all objects which were moved or wrapped and seal, and re-secure mounted objects removed in the course of work of this Section. Restore to its original condition existing construction affected by installation of demarcation barrier if applicable.

10. SECURITY

Pan American World Airways, Inc. shall provide fire watch security personnel. A vehicle with an active beacon shall be placed at a minimum of 10 feet behind the enclosure for traffic control, traffic cones shall be placed in order to divide the road way and a flag person shall be assigned to direct traffic.

11. ADDITIONAL REQUIREMENTS

The work area shall be abated using the modified glove bag, as illustrated on the page following the end of Appendix "A", within a movable enclosure as outlined in the following:

THE REMOVAL PROCEDURE (SPOT REMOVAL)

1. Area barriers shall be placed arround the work area, such as cones connected with warning tape, to prevent public access.

2. A vehicle with lighted beacon shall be a minimum of 10 feet behind the movable enclosure for traffic control.

3. Personnel shall be assigned to direct traffic during the abatement activity.

4. A movable enclosure shall be constructed to include 2 layers of 6 mil poly up to suspended ceiling level and asbestos danger signs shall be placed.

5. Negative air shall be established and maintained for the duration of the work shift.

6. A rectangular frame or facsimile shall be constructed inside a 10 mil glove bag and a HEPA vacuum hose to be attached to the bottom end of the bag. This funnel type apparatus shall be utilized for removal

AMD -13

(see diagram) of ACM from and the black iron. The ACM on the support rods including the ACM on the steel toggle insert to decking shallbe abated.

7. HEPA vacuuming shall be conducted on the edges of ceiling tiles at the perimeter of the work area.

8. A minimum of three area samples shall be collected from within the established area barriers during the work shift.

9. Penetrating encapsulant shall be applied at each area scraped and within two foot radius.

10. Wet wiping the tent walls and floors of the enclosure shall be performed often during abatement for fiber control.

11. The movable enclosure plastic sheeting shall be collapse inward, enclosing the contaminated clothing and shall be double bagged and disposed. of as ACM.

After each shift?

12. NOTIFICATIONS

The abatement contractor shall notify representatives of the Port Authority resident engineering office of preparation inspection, pre-final visual and waste hauler shipments. All notification shall be made 24 hours prior to each activity.

AWD-13

PAN AM

71	Building 53, East Customs	215.087
		Y-6072A

✓ Submittle ✓ Plans ? ✓ Approval

✓ Narritives ✓ checklist — T/O Assess. — Waste Ship Doc.

— samples — clearance still in progress DSI

	Buiding B53, Departure Level Driveway Ceilings	215.076
		Y-6142

— Submittle ✓ Plans — Approval

— Nat. ✓ checklist — T/O Assess. — Waste Doc.

— samples — Clearence

42	Canopies	215.059
		Y 6076

✓ submittle ✓ Plans — Approval

✓ Nat. — checklist — T/O Assmnt. — Waste Doc. Suspended Job.

— Samples — clearance

53	Bldg53 Pan AM D Area Bag. Service Area, office Bath Rooms	215.052
		Y-6074A

✓ Submittle ✓ Plans — Approval

— Nat. — checlist — T/O Assmnt. — Waste Doc

— Samples — clearance

	Pan Am Bldg 53 Hudsons Shop	215.022
		Y-5980

✓ Submittle — Plans — Approval

— Nat. — checklist — T/O Assmnt. — Waste Doc

— Samples — clearance

45	Pan Am Bldg 53 ~~Y-61~~ World Port West Pilot Lounge Column Repair Australia Room	215.063
		Y-6112

✓ Submittle — Plans — Approval

— Nat. — Checklist — T/O Assmnt — Waste Doc.

Samples — clearance

PA LAW DEPARTMENT
62430

PAN AM AMD-13

[redacted]

44	Pan Am Building 53 oddsize Baggage Conveyor				215.062
					Y-6068 A
31	✓ submittle	✓ Plans	___ Approval		Y-6080 A
	✓ Nar.	___ checklist	___ T/D Assmnt.	___ Waste Doc.	
	___ Samples		___ Clearance		
	Building 54, outbound conveyor East Side Belt			?	
	✓ Submittle	___ Plans	___ Approval	?	
	___ Nar.	___ checlist	___ T/D Assmnt.	___ Waste Doc	
	___ Samples		___ Clearance		

cems one but No Info

[redacted]

JFK 215.09

AMD-13 Y-[illegible]

FANAM

Bldg 53 - Concourse

Level Gate 9

38

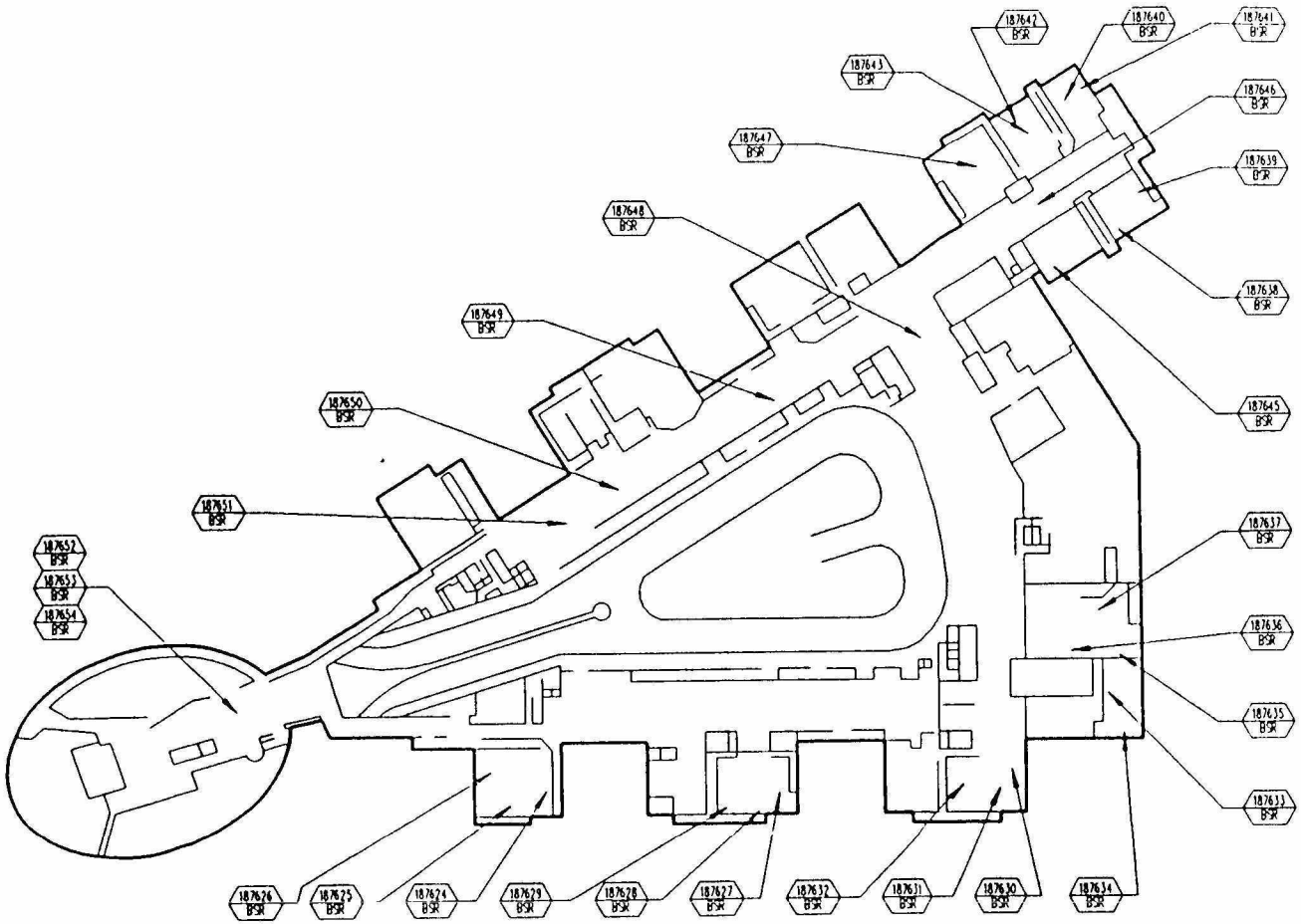
AMD-13

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 053

			ASBESTOS					OTHER MATERIALS						
SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
44 -187630	Y	Y	10	10							60		30		100
44 -187631	Y	Y	10	10							70		20		100
44 -187632	Y	Y	8	8							62		30		100
44 -187633	Y	Y	12	12							68		20		100
44 -187634	Y	Y	15	15							65		20		100
44 -187635	Y	Y	15	15							45		40		100
44 -187636	Y	Y	8	8							62		30		100
44 -187637	Y	N	0								60		40		100
44 -187638	Y	Y	12	12							75		13		100
44 -187639	Y	Y	15	15							65		20		100
44 -187640	Y	Y	10	10							65		25		100
44 -187641	Y	Y	15	15							60		25		100
44 -187642	Y	Y	10	10							60		30		100
44 -187643	Y	Y	15	15							60		25		100
0 -187644	N	N	0						80				20		100
44 -187645	Y	Y	10	10							60		30		100
44 -187646	Y	Y	12	12							55		33		100
44 -187647	Y	Y	25	25							45		30		100
44 -187648	Y	Y	30	30							30		40		100
44 -187649	Y	Y	25	25							25		50		100
44 -187650	Y	Y	15	15							35		50		100
44 -187651	Y	Y	8	8							62		30		100
44 -187652	Y	Y	2	2							58		40		100
44 -187653	Y	Y	3	3							47		50		100
44 -187654	Y	Y	2	2							68		30		100
0 -187655	N	N	0						85				15		100
0 -187656	N	N	0						80				20		100
0 -187657	N	N	0						70				30		100
0 -187696	N	Y	2	2									18	80 CAL	100
0 -187697	N	Y	2	2									18	80 CAL	100
0 -187698	N	Y	2	2									15	83 CAL	100
0 -187699	N	Y	2	2									18	80 CAL	100
0 -187700	N	Y	2	2									18	80 CAL	100

AMD-13



CONCOURSE LEVEL PLAN

HALL-KIMBRELL ENVIRONMENTAL SERVICES 4840 WEST FIFTEENTH STREET LAWRENCE, KANSAS 66044	FINAL DRAWING ASBESTOS ASSESSMENT STUDY	PROJECT NUMBER 81-70277 Sheet 18 of 23
SCALE 1/16 = 1' DATE 3/15/88	JFK INTERNATIONAL AIRPORT PAN AMERICAN WORLD AIRWAYS PASSENGER TERMINAL EXPANSION	

PA18

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

AMD-13

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 053

				ASBESTOS				OTHER MATERIALS						
SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT TRE	WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
44 -187630	Y	Y	10	10						60		30		100
44 -187631	Y	Y	10	10						70		20		100
44 -187632	Y	Y	8	8						62		30		100
44 -187633	Y	Y	12	12						68		20		100
44 -187634	Y	Y	15	15						65		20		100
44 -187635	Y	Y	15	15						45		40		100
44 -187636	Y	Y	8	8						62		30		100
44 -187637	Y	N	0							60		40		100
44 -187638	Y	Y	12	12						75		13		100
44 -187639	Y	Y	15	15						65		20		100
44 -187640	Y	Y	10	10						65		25		100
44 -187641	Y	Y	15	15						60		25		100
44 -187642	Y	Y	10	10						60		30		100
44 -187643	Y	Y	15	15						60		25		100
0 -187644	N	N	0					80				20		100
44 -187645	Y	Y	10	10						60		30		100
44 -187646	Y	Y	12	12						55		33		100
44 -187647	Y	Y	25	25						45		30		100
44 -187648	Y	Y	30	30						30		40		100
44 -187649	Y	Y	25	25						25		50		100
44 -187650	Y	Y	15	15						35		50		100
44 -187651	Y	Y	8	8						62		30		100
44 -187652	Y	Y	2	2						58		40		100
44 -187653	Y	Y	3	3						47		50		100
44 -187654	Y	Y	2	2						68		30		100
0 -187655	N	N	0					85				15		100
0 -187656	N	N	0					80				20		100
0 -187657	N	N	0					70				30		100
0 -187696	N	Y	2	2								18	80 CAL	100
0 -187697	N	Y	2	2								18	80 CAL	100
0 -187698	N	Y	2	2								15	83 CAL	100
0 -187699	N	Y	2	2								18	80 CAL	100
0 -187700	N	Y	2	2								18	80 CAL	100

PA 3618 / 7-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
Transport And Disposal Assessment

AMD-13

Inspection Date 8/15/89
Inspection Time: 10:45 (AM) PM

Facility/Generator: Port Authority / Pan Am — Contract/TAA No.: 215.071
Facility/Generator Address: Pan Am Worldport, TFKIA
Jamaica, NY
Asbestos Abatement Contractor: Aped — Telephone #: ( ) -
Abatement Contractor's On-Site Supervisor: Greg Stubenecki
Contractor's Waste Hauler: Mola Trucking ITA Mitchko
Waste Hauler's Address: PO Box 414, 630 Myrtle Ave, Boontown
Waste Hauler's Driver's License #: L26307850001402 — State: NJ
Waste Hauler's Transport Vehicle License Plate #: T450 G-F NJ — Registration # & State VIN: A N30782
Transportation Certificates: NYS DEC TA-020
Disposal Site Name: Industrial Maintenance SE
Address: Rte 3, Mail Box 563
Clarksburg, WV, 26301
Temporary Storage Facility Name:
Address:
Date Storage to Commence: / / — Estimated Length of Storage:

Location and Condition of Waste Prior to Transport

___ Worksite
✓ Designated Storage Area
Location: outside oversized Baggage area

✓ Waste contained in properly labeled 6-Mil plastic bags or drums with no visible damage or leakage and checked every 24 hours

If Deficiencies, indicate: trailor - emergency break has locked, driver corrects before leaving site

Amount of Waste for Transport: 100 cubic yds
Transport Certificates Corresponds to Vehicle Decals: ✓ Yes ___ No
Visual Inspection of Transport Vehicle: ✓ Acceptable:
If Deficiencies, Indicate: ___
Waste Hauler Manifest Properly Completed ✓ Yes ___ No
Port Authority Shipping Document Properly Completed ✓ Yes ___ No
Comments: Waste generated by several areas: odd sized baggage, Phase I a outside concourse, 2 test procedures + spot removal

Note: Any conditions which is unsatisfactory must be corrected and reinspected.

Signature of Inspector: [signature] Date 8/15/89

Routing: Original--EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

AMD-13

PORT AUTHORITY OF NEW YORK AND NEW JERSEY AIRBORNE FIBER SAMPLING PROGRAM

FACILITY: JFKIA AREA: Pan Am - Worldport Phase I DATE: 08 / 4 / 8[illegible]

Sample Type: - Check one -		Cassette Size: - Check one -		Membrane Type: - Check one -		Pore Size: - Check one -	
Environmental	[✓]	25 mm	[✓]	MCE	[✓]	0.8 um	[✓]
Personal	[ ]	37 mm	[ ]	PC	[ ]	0.45 um	[ ]
Other _____	[ ]	Other _____	[ ]	Other _____	[ ]	Other _____	[ ]

Rotometer Number: # 6

SAMPLE NUMBER	LOCATION / NAME	PUMP NUMBER	FLOW RATE (LITERS / MIN) INITIAL	FLOW RATE (LITERS / MIN) FINAL	TIME (24 HOUR FORMAT) ON	TIME (24 HOUR FORMAT) OFF	LAB NUMBER	RESULT (f/cc)
JFKIA 1366	East Concourse - Phase I - clean room	01243	13.5	13.5	1125	1315	9875	~~0.01~~ 0.011
JFKIA 1367	Field Blank for sample JFK-1366	—	—	—	—	—	9876	N/A

COMMENTS: Sample taken during grass removal

PORT AUTHORITY REPRESENTATIVE(S): [signature]

PORT AUTHORITY OF NEW YORK AND NEW JERSEY AIRBORNE FIBER SAMPLING PROGRAM

FACILITY: JFKIA AREA: Pan Am - Worldport Phase I E conc. DATE: 08/09/89
AM0-13

Sample Type: - Check one -		Cassette Size: - Check one -		Membrane Type: - Check one -		Pore Size: - Check one -	
Environmental	[✓]	25 mm	[✓]	MCE	[✓]	0.8 um	[✓]
Personal	[ ]	37 mm	[ ]	PC	[ ]	0.45 um	[ ]
Other _____	[ ]	Other _____	[ ]	Other _____	[ ]	Other _____	[ ]

Rotometer Number: #6

SAMPLE NUMBER	LOCATION / NAME	PUMP NUMBER	FLOW RATE (LITERS / MIN) INITIAL	FINAL	TIME (24 HOUR FORMAT) ON	OFF	LAB NUMBER	RESULT (f/cc)
JFKIA-1396A	Phase I w/in containment in center of large room.	01348	15.0	15.0	1437	1605	10020	less than 0.013
JFKIA-1397A	Field Blank for Sample JFKIA-1396A.	—	—	—	—	—	10021	N/A

RISK MGT. DIV.
89 AUG 12 P 1:32
RECEIVED

COMMENTS: Above sample taken as representative area sample taken after (+ during ATC stop @ 1445) clearance sample of ATC. As directed by Tony Fontanetta.

PORT AUTHORITY REPRESENTATIVE(S): Kurt J. Davis

AMD-13

PORT AUTHORITY OF NEW YORK AND NEW JERSEY AIRBORNE FIBER SAMPLING PROGRAM

FACILITY: JFKIA AREA: Pan Am - Worldport - East Concourse DATE: 8, 17, 89

Sample Type: - Check one -		Cassette Size: - Check one -		Membrane Type: - Check one -		Pore Size: - Check one -	
Environmental	[✓]	25 mm	[✓]	MCE	[✓]	0.8 um	[ ]
Personal	[ ]	37 mm	[ ]	PC	[ ]	0.45 um	[ ]
Other _____	[ ]	Other _____	[ ]	Other _____	[ ]	Other _____	[ ]

Rotometer Number: #6

SAMPLE NUMBER	LOCATION / NAME	PUMP NUMBER	FLOW RATE (LITERS / MIN) INITIAL	FLOW RATE (LITERS / MIN) FINAL	TIME (24 HOUR FORMAT) ON	TIME (24 HOUR FORMAT) OFF	LAB NUMBER	RESULT (f/cc)
JFKIA-M03A	Phase Ib - East Concourse inside clean room	01243	15.0	15.0	1231	M03	10203	less than 0.012
JFKIA-M04A	Field Blank for Sample JFKIA-M03A	—	—	—	—	—	10201	N/A

COMMENTS: Sample taken during Phase Ib final air clearance, taken by AIC.
Pump number corresponds to Hygienetics label

PORT AUTHORITY REPRESENTATIVE(S): Keith J Sass

USE BLACK INK ONLY!!

AMD-13

PORT AUTHORITY OF NEW YORK AND NEW JERSEY AIRBORNE FIBER SAMPLING PROGRAM

USE BLACK INK ONLY!! <------<<<

FACILITY: JFKIA AREA: Pan Am - World port - gate 8 DATE: 08/28/89

Sample Type: - Check one -		Cassette Size: - Check one -		Membrane Type: - Check one -		Pore Size: - Check one -	
Environmental	[✓]	25 mm	[✓]	MCE	[✓]	0.8 um	[✓]
Personal	[ ]	37 mm	[ ]	PC	[ ]	0.45 um	[ ]
Other _____	[ ]	Other _____	[ ]	Other _____	[ ]	Other _____	[ ]

USE BLACK INK ONLY!! <------<<<

Rotometer Number: #6

USE BLACK INK ONLY!! <------<<<

SAMPLE NUMBER	LOCATION / NAME	FLOW RATE (LITERS / MIN) INITIAL	FLOW RATE (LITERS / MIN) FINAL	TIME (24 HOUR FORMAT) ON	TIME (24 HOUR FORMAT) OFF	LAB NUMBER	RESULT (f/cc)
JFKIA-1407A	Outside gate 8, at column in front of Les Must de Cartier	13.0	13.0	2341	0130		
JFKIA-1408A	Field Blank for sample JFKIA-1407A	—	—	—	—		

COMMENTS: Above samples taken during Spot removals utilizing HEPA vacuums & wet methods

PORT AUTHORITY REPRESENTATIVE(S): [signature]

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

AMD-13

Facility: JFKIA Contract/TAA No.: 215.071

Location: Pan Am - World Port - gate 9

Asbestos Abatement Contractor: Aped

Project Status: ✓ Pre-Construction Meeting ____ Pre-Abatement Preparation ____ Work In Progress

____ Cleaning Phase ____ Final Air Sampling

Comments: 0900 Meeting begins, see list of attendants. Tony F. wishes Lumo Tsungu, ATC would correct future submittals so that when using PA specs "Authority" be replaced w/ "ATC". Lumo informs us work will most likely begin around July 6th. Work will probabely last four nights, hrs from 8:00pm or 10:00pm on. The total amt of asbestos to be removed is 151 sq ft of 2% Chrysotile Fireproofing. Pan Durante expresses need to limit project to spot removal due to difficulties which may arrise during reinstalation of fireproofing. Lumo informs us that waste will be temporarly stored w/ waste generated at Oversized baggage area also at Pan Am. Questions arrise about waste storage facilities. Copy of local law 70 will be given to Lumo and Phil Taylor which will also be sent to PA lawyer to determine PA liability. Several deficiencies must be corrected prior to small project comencement. Waste transporters Dep of Consumer Affairs permit must be submitted as well as new ELAPS certificate, and also AIHA no. must be submitted. Submittal only approved as spot removal

Keith Goss — Signature — 06/28/89 Date

(Print) Name

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 Contract/TAA No.: 215.071

Location: Pan Am - Worldport - East Concourse - Phase Ia

Asbestos Abatement Contractor: Aped

Project Status: ✓ Pre-Construction Meeting ___ Pre-Abatement Preparation ___ Work In Progress
✓ Cleaning Phase ___ Final Air Sampling

Comments: 0800 After receiving a page (which I suspect to be from Greg, Aped at Pan Am Worldport, since yesterday he told me to be available at this time) I arrive on site. I'm told by Preston, ATC consultant that final air testing is being taken in test procedure at gate 9. I'm quite sure that the PA EMD has not been informed of this activity so I confront supervisor John, Aped. He shows me notification and tells me Luma Tsungo has given PA notice

0845 Preston and John analyze my inspection methodoly and believe I am to severe. They suggest that my pre-encapsulant visual be given after the first layer of poly "work poly" (John). Since it is expected that debris collects in areas. I inform them both that the reason we choose to inspect at this time is to prevent further cleaning problems, also no visible debris prior to encapsulation. They disagree, I tell them I will correspond their concern w/ Tony Fontanetta.

Keith Goss — Keith Goss — 8/8/89

(Print) Name — Signature — Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 Contract/TAA No.: 215-071

Location: Pan Am - World port - East Concourse - Phase I

Asbestos Abatement Contractor: Aped

Project Status: ___ Pre-Construction Meeting ___ Pre-Abatement Preparation ___ Work In Progress
___/ Cleaning Phase ___ Final Air Sampling

Comments: 0930 John, Aped supervisor said ATC consultant finished sampling in tent and left at 0700. This is a contradiction w/ Greg's, Aped perception. If this was true (air testing concluded) why was work continuing in tent at 0800. This will require further investigation. We will require air clearance results. Tent is dismantled and all workers gone when I go to check area. Suspect previous conversation w/ C Preston, ATC + John, Aped may have been to delay my actions in the hopes that the test procedure could be broken down.

1000 Discuss future tent procedures and spot removals w/ Lumo Tsungo, ATC: the next tent procedure will combine 2 previously submitted seperate areas. Tony Fontanella will be made aware of this as well as Lumo's plans to begin Spot removal next week. The start dates and specification alterations were not made available to PA EMD. Lumo agrees to provide air sampling results from tent procedure

Keith Gass — Signature — 8/8/89 Date

(Print) Name

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 Contract/TAA No.: 215.071

Location: Pan Am - Worldport - East Concourse - Phase Ia

Asbestos Abatement Contractor: Aped

Project Status: ___ Pre-Construction Meeting ___ Pre-Abatement Preparation ___ Work In Progress
✓ Cleaning Phase ___ Final Air Sampling

Comments: 1015 Suit up to reinspect phase Ia
1150 Exit work area - area generally clean yet some items need to be re-wiped, as well as some clamps, and some areas on the floor. After further inspection area found in small room to right of D.F. where due to track ceiling existance in past upper deck not visible. After looking at "demising wall" I see areas partially poly'ed, w/ the remainder just plywood. At the seals above and below plywood ACM is exposed w/in work area. I advise that these areas be HEPA vacumed, and possibly poly'ed over in the future to avoid this problem in the next phase Ib. I find waste water collected from shower in work area, it is being used to reclean area. this water is not filtered. I tell greg it must not be utilized in this fashion and must be removed. After above corrected area is ready for encapsulation. Note area passed AIC visual before I entered
1215 Review AIC area samples, <LOQ (<.0002) Leave site

Keith Cross — Keith Cross — 8/8/89
(Print) Name — Signature — Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

PA 3616 / 5-88

THE PORT AUTHORITY OF NY & NJ
ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-Checklist-

AMD-13

Facility: JFKIA Contract/TAA No.: 215.071

Location: Pan Am - Worldport - East Concourse - Phase Ia
Jamaica, NY

Asbestos Abatement Contractor: Aped

Abatement Company's On-Site Supervisor: Greg Studencki

Air Monitoring Company: ATC

Air Monitoring Company's Industrial Hygienist Representative: Curtis Preston

Type of Respiratory Protection in Use: PAPR

I) Containment and Critical Barrier: Comments: (If Deficiencies Are Observed, Indicate Corrective Action)

✓ Intact
___ Cuts
___ Seam Separation
___ Fatigue

area generally clean some areas need to be re-wiped; clamps, beams + floor. One Area where demising wall surrounded by ACM (+ taped over) must require further attention

II) Decontamination Barrier: Comments: (If Deficiencies Are Observed, Indicate Corrective Action)

✓ Intact
___ Cuts
___ Seam Separations
___ Fatigue
___ Evidence Of Debris In Clean Room

D.F. is in good condition yet require that outer 2 chambers of DF be recleaned. Also waste water from shower w/in work area, must be removed

III) Determination Of Negative Air Flow: Comments: (If Deficiencies Are Observed, Indicate Corrective Action)

✓ Smoke Tube Test — Give Locations & Findings
✓ Pressure Gradient Measurements
✓ Visual Observations — Give Details

manometer reads above -0.05" H_2O
good evidence of influx of make up air throug DF curtains

IV) Listing And Photo I.D. Of All Certified Workers On Site:	✓ Present	___ No
V) Posting Of All Applicable Regulations On-Site:	✓ Present	___ No
VI) Posting Of P.A. Specification On Site:	✓ Present	___ No
VII) Copy Of U.S.E.P.A. Notification Letter On-Site:	✓ Present	___ No
VIII) Posting Of Approved Restricted Access Warning Signs On-Site:	✓ Present	___ No
IX) Posting Of All Emergency Procedures And Phone Numbers On Site:	✓ Present	___ No
X) Contractors Daily Log Book On-Site:	✓ Present	___ No
XI) Current Results Of Air Monitoring On-Site: ___ Not Available	✓ Acceptable	___ Not Acceptable

Comments: Phase Ia - Area required some recleaning after ATC consultant Curtis Preston had approved area. Air monitoring results are seen after Lumo requests Preston to display them. Prior to Mr Tsungo, ATC request Preston reluctant to show results

Name: [signature]

8/18/89 Inspection Date

10:15 AM PM Inspection Time

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 **Contract/TAA No.:** 215.071

Location: Pan Am - Worldport - Phase Ia

Asbestos Abatement Contractor: Aped

Project Status: ___ Pre-Construction Meeting ___ Pre-Abatement Preparation ___ Work In Progress
___ Cleaning Phase ___ Final Air Sampling

Comments: 1437 (cont'd) Clearance sampling. After entering area I discover air sampling in progress. I leave work area immediately. I see Preston, he is concerned that I have disrupted his samples. I reassure him this is not possible. I confront him about informing me about sampling he tells me he is unaware of responsibility to inform PA EMD. I inform him that this is his responsibility as well as those discussed w/ Aped Supervisor. I meet Luma Tsungo outside work area. I return to DF suit up, enter area to set up sample JFKIA-1396A
1445 Request Luma, ATC observe work by electricians at gate 7. Yet when he arrives there he cannot find work. I'm in process w/ contacting Tony Fontanetta to request advice on current situations. In hopes he can advise on proper channels to follow up. I look for electricians they are gone as is all debris + evidence of suspect ACM.
1500 Discuss w/ Preston + Tsungo the need to be

Keith Goss — Keith Goss — 8/9/89
(Print) Name — Signature — Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AHD-13 Contract/TAA No.: 215.071

Location: Pan Am - Worldport - Phase Ia

Asbestos Abatement Contractor: Aped

Project Status: ___ Pre-Construction Meeting ___ Pre-Abatement Preparation ___ Work In Progress
___ Cleaning Phase ___ Final Air Sampling

Comments: 1415 arrive at Worldport to check progress of Phase Ib. I see electricians doing work above plenum near gate 7. There is an accumulation of debris suspect ACM which electrician said had fallen from pan ceiling tiles which I believe is sprayed on debris fallen from beams above suspended ceiling. I tell them that they must not remove any tiles in the future w/o proper precautions taken by asbestos contractor w/ HEPA vaccume.

1437 I meet Greg Studencki, Aped he informs me final air clearance sampling has been completed. I inform him that PA EMD must be notified prior to air sampling (clearance), pre-abatement, pre-encapsulation since we reserve the right to be present during these paramount stages of abatement. I am given impression final air has passed clearance at this time. I enter work area to set up PA EMD representative area sample wearing my respirator just in case area not passed

Keith Cass — 6/9/89

(Print) Name — Signature — Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 **Contract/TAA No.:** 215-071

Location: Pan Am - Worldport - Phase Ia

Asbestos Abatement Contractor:

Project Status: ___ Pre-Construction Meeting / Pre-Abatement Preparation ___ Work In Progress
___ Cleaning Phase / Final Air Sampling

Comments: 1500 (cont'd) informed when sampling (clearance) is planned as well as expressing interest about future waste trailor transport, and being informed accordingly. Preston leaves site w/ Tsunga to Bld 67 Emergency cleanup. I again attempt to page Fontanetta - unable to contact
1530 Walk through Phase Ib Concourse west, mirror image of Phase Ia, area being constructed by VRH again enclosing greate area than originally submitted.
1600 Collect sample
1630 Prepare samples for transport, leave site

No further entry Authorized

Keith Goss — Keith Goss — 8/9/89
(Print) Name — Signature — Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 **Contract/TAA No.:** 215.071

Location: PAN Am - Worldport - East Concourse - Phase IA

Asbestos Abatement Contractor: Aped

Project Status: ____ Pre-Construction Meeting ✓ Pre-Abatement Preparation ____ Work In Progress
____ Cleaning Phase ____ Final Air Sampling

Comments: 1345 Arrive at Worldport to contact ATC about emergency clean up at Bld 67, Pan Am. I contact Curtis Preston, ATC and tell him we need copies of his log entries, sample results and waste manifest documentation

1400 Tony Fontanella arrives. I take several pictures of next phase of removal which is a mirror image of previous phase.

1415 Conversation w/ Tony Fontanella + Greg Studeocki, Aped supervisor. Supervisor is not satisfied w/ constrcton of critical barriers surrounding work area - the construction of both phases combines the work of 2 test procedures. This triples the amt of removal he had scheduled - work, time + mat'ls. Tony instructs him that these alterations were not approved and should not be accepted by Aped. I personally am more confortable w/ containment vs test procedures - especially ATC monitored test procedures 1430 Off site go to Hngr 19 + travelodge

Keith Cass
(Print) Name

Keith J Cass
Signature

8/10/89
Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 **Contract/TAA No.:** 215.071

Location: Pan Am - Worldport - East Concourse - Phase II

Asbestos Abatement Contractor: Aped

Project Status: ____ Pre-Construction Meeting ____ Pre-Abatement Preparation ✓ Work In Progress

____ Cleaning Phase ____ Final Air Sampling

Comments: 0730 Arrive at Bld 14, work on documentation
0930 Leave Bld 14 go to Pan Am
1015 Arrive at Worldport & discuss what Port Authority requires of ATC w/ Curtis Preston: notification for pre-abatement, pre-encapsulation, final air clearence and wast out. Having been paged by Aped that waste transporter is prepared to remove trailer, I am on site to fill out appropriate documentation. I begin completion of waste documents w/ driver. At this time I discover that gross removal has begun w/o Port Authority approval due to what ATC calls a problem w/ communication
1020 I speak w/ Lumo Tsungo, ATC about situation. I inform him regardless of what communication problems exist it is his responsibility to get Port Authority approval He informs me notice was given Friday 8/11 to REO. This was not the case the only notice I received was today (see enclosed work slip). I inform Lumo that work must stop until pre-abatement inspection given. Lumo insists

Keith Goss — Keith Goss — 8/15/89
(Print) Name — Signature — Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 Contract/TAA No.: 215-071

Location: Pan Am - World Port - East Concourse - Phase II

Asbestos Abatement Contractor: Aped

Project Status: ____ Pre-Construction Meeting ____ Pre-Abatement Preparation ✓ Work In Progress

____ Cleaning Phase ____ Final Air Sampling

Comments: 1020 (cont.) work can continue while I give visual. I tell him that since I represent the property owner and I have come in contact w/ unauthorized abatement activity it must be stopped until approval is given. I tell him area will be inspected after waste transport documents are completed. He does not communicate there is any reluctancy to comply.

1030 Tell Greg Studenski, Aped that workers may remain w/in work area but work is to stop until I complete visual. Greg complys, and I return my attention to the waste transporter.

1110 Driver has difficulties and apprehension about whether his large trailer will fit under bridge where previous, full trailer is located. Consultant Preston, ATC informs me that regardless of what Luma Tsunga discussed w/ myself work may continue - I must contact Fontanetta to take proper action. Curtis responds "Luma said you do not have authority to do what you plan to do (stop work)" Yet I confront Aped Supervisor and he assures me work has

Keith Cass — Keith Cass — 8/15/89

(Print) Name — Signature — Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 **Contract/TAA No.:** 215.071

Location: Pan Am - Worldport - East Concourse - Phase I6

Asbestos Abatement Contractor: Aped

Project Status: ____ Pre-Construction Meeting ____ Pre-Abatement Preparation ✓ Work In Progress
____ Cleaning Phase ____ Final Air Sampling

Comments: 1110 (cont'd) stopped and will not continue until this situation is solved. At this point I am concerned about ATC's role as third party. It appears that they are acting in a non-professional fashion, and they are more construction supervisors w/ time constraint pressures than competant Hygienists. Another question arrises that I must persue is duration of waste storage in trailer, since it certains waste from several phases, will check local law 70.

1128 After driver has repaired locked emegency breaks on traile to be removed. I return to concours to inspect work area. Greg informs me that area will be ready for pre-encapsulant visual Wed 8/16 @ 1:00pm

1130 Curtis Preston requires that I have handlers lisence to enter work area. I display my contractor supervisor ID issued by HTI, and tell him I am owners representative & therefore have right to enter. He still shows opposition. I inform Greg, Aped that since I cannot give visual work may not continue until situation resolved. I also inform Keith Goss

Keith Goss — 8/15/89

(Print) Name — Signature — Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

AMD-13

Facility: JFKIA **Contract/TAA No.:** 215.071

Location: Pan Am - Worldport - East Concourse - Phase II

Asbestos Abatement Contractor: Aped

Project Status: ____ Pre-Construction Meeting ____ Pre-Abatement Preparation ✓ Work In Progress
____ Cleaning Phase ____ Final Air Sampling

Comments: 1130(cont.) Greg, Aped that ATC return to work "work order" violates Port Authorities ultimate Jurisdiction, and therefore must not be adhered to. I must note contractor's, Aped willingness to comply to all requests.
1151 We all contact our project managers. Preston → Lumo Greg → John, Joe etc., myself → Brian. + Tony F.
1155 Fontanetta returns call he will contact Lumo + arrive on site to advise.
1230 Fontanetta has arrived and meet w/ Aped Proj managers
1245 There is much discussion of Lumo's negligence from EMD reps + Aped Reps Fontanetta gives go ahead for work to continue. Fontanetta expresses his problems w/ site from spec alterations (expanded work areas) to lack of ATC compliance. It is decided that Aped will directly contact EMD through REO. Aped again discusses desire to push back EMD visual until first layer of poly has been removed - Tony informs them business as usual (not acceptable). Manometer reads >0.07 1315 Leave site, No visual.

Keith Goss — (Print) Name
Keith Goss — Signature
8/15/89 — Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 **Contract/TAA No.:** 215 071

Location: Pan Am - Worldport - East Concourse - Phase I6

Asbestos Abatement Contractor: Aped

Project Status: ____ Pre-Construction Meeting ____ Pre-Abatement Preparation ____ Work In Progress
✓ Cleaning Phase ____ Final Air Sampling

Comments: 0730 On site at Bld 14 w/ Briank. we await Mark Jacubek, Phil Taylor and John Prince.
1030 Continue keeping up w/ documentation
1130 Take Lunch
1200 Leave Bld 14
1225 Arrive on site at Worldport
1230 check manometer reads between 0.01 - 0.02. Greg Studencki corrects pressure loss
1245 Conversation w/ Preston, ATC: he is unhappy w/ results of yestedays meeting w/ Fontanella + Aped reps. He believes Fontanella's accusations are unsubstantiated yet I assure him I myself have experienced ATC's ineffectiveness He displays a type in specs, PA specs which ATC has used + inserted "ATC" where Port "Authority" previously was found. Since this was not done w/ consistency entire passages meanings have changed. He inferes ATC has no obligation to Pan Am.
1305 Mention to Greg OSHA sampling results must be posted

Keith Goss — 8/16/89
(Print) Name — Signature — Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 **Contract/TAA No.:** 215.071

Location: Pan Am - Worldport - East Concourse - Phase Ib

Asbestos Abatement Contractor: Aped

Project Status: ___ Pre-Construction Meeting ___ Pre-Abatement Preparation ___ Work In Progress
✓ Cleaning Phase ___ Final Air Sampling

Comments: 1230 Leave site go to CHRP
1245 Leave CHRP go to Travelodge
1352 Arrive at Travelodge. Neg air established above -0.03" H_2O. It is aggreed glass panels will receive 2 layers of poly. It appears leak influx from HVAC has developed It will be necessary to have Bld Engineer tony check it out. Sequence of events in future. Saba, BCM give pre-ACM disturbal inspection (possibly tomorrow), Returns sealed, feeds sealed, fixture renoval - sealed all done after HVAC + large hole addressed then when containment complete I will give pre-abatement visual then grass renoval may commence.
1425 Off site go to Pan Am
1500 Arrive at Worldport as agreed yesterday for pre-encapsulant visual. Greg, Aped tells me Preston inside work area giving visual. Greg shows personal sample results to me and posts them
1515 John, Aped Supervisor tells me work area is ready

Keith Cass — (Print) Name
Keith Cass — Signature
8/16/89 — Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 **Contract/TAA No.:** 215.071

Location: Pan Am - Worldport - East Concourse - Phase Ib

Asbestos Abatement Contractor: Aped

Project Status: ___ Pre-Construction Meeting ___ Pre-Abatement Preparation ___ Work In Progress
✓ Cleaning Phase ___ Final Air Sampling

Comments: 1515 (cont) for encapsulation. I inform him that I will wait for Preston, ATC to finish his visual

1520 Ask John, Aped where results are for test procedures inside Gate 9. He informs me that they have been faxed to URH trailer + will be available tomorrow. He also tells me to make Tony Fontanetta aware that Aped will remove ceiling tiles for electricians + control possible fiber release w/ HEPA vacumes, this will occurr tomorrow night around 11:00pm between gates 9 → 3.

1530 Enter work area to inspect for visible debris Manometer reads 0.04" H_2O

1535 While in work area car towed from in front of work area where Aped employees are waiting.

1625 Conclude visual - area generally clean, some areas needed recleaning, debris found on drop ceiling tracks, floor, on beams + w/in D.F. Exit work Area

1633 Discover car has been towed, attempt to locate persons responsible. Leave site in wrecker to Lot 7

Keith Goss (Print) Name — Keith J Goss Signature — 8/16/89 Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKTA AWD-13 **Contract/TAA No.:** 215.071

Location: Pan Am - Worldport - East Concourse - Phase IB

Asbestos Abatement Contractor: Aped

Project Status: ___ Pre-Construction Meeting ___ Pre-Abatement Preparation ___ Work In Progress
___X___ Cleaning Phase ___ Final Air Sampling

Comments: 1640 (contid) to find car I have no choice but to leave case w/ Respirators outside DF where workers are. Since Wrecker is leaving & will not wait.

1650 Arrive at Airport Towing Service - they refuse to release cars w/o paying $65 fine

1700 Attempt to get cash at Citibank - closed

1705 Contact PA vehicle, they give me ride to PA Police

1730 Return to Lot 7 w/ PA police office who negotiates for me, they take check for $25 & release car

1740 Return to Pan Am to retrieve equipment. It is gone! I inquire w/ security & Greg Studencki he says it was there at 1730 I fill out report for missing baggage w/ Pan Am Baggage Servire.

1800 Return to PA Police to fill out stolen property report

1830 Leave Police station, OFF site

Keith Goss — Keith J Goss — 8/16/89
(Print) Name — Signature — Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 **Contract/TAA No.:** 215.071

Location: Worldport

Asbestos Abatement Contractor: Apeel

Project Status: ___ Pre-Construction Meeting ___/ Pre-Abatement Preparation ___ Work In Progress
___ Cleaning Phase ___/ Final Air Sampling

Comments: 0730 Arrive at Building 14, catch up on documentation
1145 Take Lunch
1215 Leave Bld 14 to Worldport
1230 Arrive at Worldport to take representative area samples, during clearance sampling at phase I.
I set up sample JFKIA-1403A and Field Blank JFKIA-1404A unlock DF w/ Key provided by Greg Studencki.
1235 Contact Pan Am baggage service about lost respirator, has not been found. Contact Ron Sabo at Travelodge about usual - Area not ready yet for ACM disturbal usual. Also contact Brandee Velez about lost/stolen respirator.
1425 Collected samples prepared for delivery, write narrative up. Preston, AIC apprehensive about my collecting samples. He believes I will disturb his clearance samples. I assure him this will not be the case since my sample is run in clean room off site go to travelodge
→
→

Keith Gross
(Print) Name

Keith Gross
Signature

2/17/89
Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 **Contract/TAA No.:** 215.071

Location: Pan Am - Worldport - gate 4 concourse

Asbestos Abatement Contractor: Aped

Project Status: ____ Pre-Construction Meeting ____ Pre-Abatement Preparation ✓ Work In Progress

____ Cleaning Phase ____ Final Air Sampling

Comments: 2200 On site outside gate 8. Construction workers removing ducts. Work intended to go until 0600 hrs

2215 Meet Steave, ATC and John + Greg, Aped and single handler. They describe scope of work and procedures

2240 Steave Grund leaves site to get sampling pumps

2245 Worker suits up in tyvek + respirator (half face neg pressure) and uses vacume to remove visible debris. John hangs Asbestos warning tape around polyed section of floor

2300 Atc Fontanella to make him aware of:

a) duct workers do not have restricted handlers license (not Fit tested)

b) ATC consultant is not on site, he believes he will be gone for one hour. Tony wants me to tell Grund when he returns we need a copy of his narratives, waste flow documentation and results of air sampling analysis

2316 Handle uses amended water to mist work area, I ask Greg why he has only spray bottles when job requires hudson sprayers. I do not see any encapsulant being used

Keith J Goss — Keith J Goss — 08/28/24

(Print) Name **Signature** **Date**

Routing: Original--EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 **Contract/TAA No.:** 215.071

Location: Pan Am - Worldport - gate 4 Concourse

Asbestos Abatement Contractor: Aped.

Project Status: ____ Pre-Construction Meeting ____ Pre-Abatement Preparation ✓ Work In Progress
____ Cleaning Phase ____ Final Air Sampling

Comments: 2321 Ductworker returns to work area to remove duct.

2330 Leave work area to park car upstairs (roof)

Note: work not being monitored

2341 Set up sample JFKIA-1407A and Blank JFKIA-1408A Lumo Isunga on site for ATC. Note project not monitored by ATC for 1hr during Asbestos removal

~~2408~~ 0008 I overhear John, Aped + Lumo discuss path of duct work. They speak about area outside Phase Ia containment where ACM possibly impacted by duct workers. I investigate and find a great deal of debris on ground, on black iron taken down, and light fixtures. Debris and contaminated material must be removed and area aprox 32 sq ft must be cleaned.

~~2412~~ 0012 John shows me lack of communication w/ ATC and maintenance is responsible for hazzard + worker exposure. He tells me it is a "poor planned" abatement. He leaves site and informs me same problem will exist outside

Keith Foss — Keith Foss — 08 128189

(Print) Name — Signature — Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ
ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMD-13 Contract/TAA No.: 215.071

Location: Pan Am - Worldport - Gate 9 Concourse

Asbestos Abatement Contractor: Aped

Project Status: ____ Pre-Construction Meeting ____ Pre-Abatement Preparation ____ Work In Progress
____ Cleaning Phase ____ Final Air Sampling

Comments: ~~2412~~ 0012 (cont'd) where Phase Ib was. Containments did not include these areas (3 ft beyond) despite VRH expanding containment + deviating from specs.

0025 ~~2425~~ Make Lumo aware of debris outside. I ask him to look at amount of material. Also inform him what PA will require for cleanup.

0035 Discuss hazzards w/ Ductworkers. They inform me they created hazzard outside. Inform them about the dangers of fiber release to themselves and public. I inform them if the situation should arrise again (it will at next phase) and they suspect they may impact Asbestos they must contact supervisor at Pan Am, Pan Am must contact consultant and abatement contractor. I give them Business card w/ Ron Duranles telephone number should any problems arrise. I ask Greg to put warning tape around area outside

0100 Walk w/ Lumo Tsungo, ATC to other area where it is expected ACM will be impacted, phase Ib (outside) - he believes

Keith J Goss (Print) Name — Keith J Goss Signature — 08/28/89 Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AMP-13 Contract/TAA No.: 215.071

Location: Pan Am - World port - gate 9 concourse

Asbestos Abatement Contractor: Aped

Project Status: ____ Pre-Construction Meeting ____ Pre-Abatement Preparation ✓ Work In Progress
____ Cleaning Phase ____ Final Air Sampling

Comments: (0160) area can be enclosed in a tent. I discuss w/ Luma communication must be made w/ Pan Am about alterations; electrical, ductwork + plumbing advising potential for ACM disturbal so such a gross violation does not occurr in future
0105 Return to work area, ductworkers desire to wear half face respirators supplied by Aped. I show them how to give Fit check. I require Aped Mist area regularly to keep fiber counts low.
0115 Luma informs me he has utilized this procedure in past + results for sampling low. He tells me Ron Durante will receive package at end of project including narratives, sample results + waste documents. He leaves site. Steave Grund remains he is informed about cleanup outside
0130 Collect Sample JFKIA-1407
0145 Greg Studenchi, Aped tells me hazzard outside will be attended to before they leave. Leave site.

1

Keith J Goss (Print) Name — Signature — 08/28/89 Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

Facility: JFKIA AWD-13 **Contract/TAA No.:** 215.071

Location: Pan Am - Worldport

Asbestos Abatement Contractor: Aped

Project Status: ____ Pre-Construction Meeting ____ Pre-Abatement Preparation ____ Work In Progress
____ Cleaning Phase ____ Final Air Sampling

Comments: 0920 At travelodge speak w/ Fontanetta about late developments last night: the amount of debris I had found outside the last phases due to duct workers, as well as concerns about potential fiber release during spot removal

1345 Return to PAN Am Worldport to make sure debris was cleaned up afte last nights discovery

1400 Arrive at Worldport to inspect area outside Phase Ia where duct workers disturbed ACM. Small amount of ACM still remains. Will contact Fontanella

1415 Inspect othe work area - outside Phase Ib and Concourse outside gate 9. See two electricians working above Pan ceiling, they do not appear to be disturbing any ACM. Outside Phase Ib work area large piece of sprayed on ACM has fallen from ceiling during night (lrg enough to fill 12 oz Container) No evidence of debris from spot removal last night.

1430 Contact Fontanetta about debris. He will inspect tonight. Offsite

Keith T Goss — 12/9/89

(Print) Name — Signature — Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

AMD-13

Facility: JFKIA **Contract/TAA No.:** 215.071

Location: Pan Am - Worldport - east Concourse

Asbestos Abatement Contractor:

Project Status: ____ Pre-Construction Meeting ____ Pre-Abatement Preparation ____ Work In Progress
____ Cleaning Phase ____ Final Air Sampling

Comments: 0730 Bld 14 arrive on site.
0830 Discuss Spot Removal Work Stop order last night. Duct work alteration never approved by REO
0930 Leave Bld 14 go to Worldport. Stop Speak w/ Bruce REO about progress at American w/ Dobric. I inform him we require a site specific procedure and other material, and the Coram Dobric has REO fax number. He will send required material via fax. Also note: ten day notification needed prior to abatement.
0945 - Arrive at Worldport to show Tony Fontanetta several areas where debris has accumulated due to poor Pan Am workpractices: at gate 9 outside Phase Ia where I previously asked Lumo Tsunga to correct, ATC proj mngr., outside Phase Ib, and on new ductwork due to poor Apex workpractice during spot removal.
1015 Leave site after Tony takes photos of spot removal area and overhang at driveway entrance.
Go to Travelodge.

Keith J Goss (Print) Name — Keith J Goss Signature — 8/31/89 Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

PA 3616 / 5-88

THE PORT AUTHORITY OF NY & NJ
ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-Checklist-

215.071

Facility: JFKIA AMD-13 Contract/TAA No.: 4-6110A

Location: Pan Am Worldport - East concourse Phase I + II combined

Asbestos Abatement Contractor: Aped

Abatement Company's On-Site Supervisor: ~~Kurt~~ G. Studenchi

Air Monitoring Company: ATC

Air Monitoring Company's Industrial Hygienist Representative: KURT Preston

Type of Respiratory Protection in Use: PAPR

I) Containment and Critical Barrier: Comments: (If Deficiencies Are Observed, Indicate Corrective Action)

✓ Intact
___ Cuts
___ Seam Separation
___ Fatigue

ceiling tiles must be removed and cleaned then demising walls will be constructed to decking + or beams. Port Authority will be contacted prior to actual abatement when walls completed

II) Decontamination Barrier: Comments: (If Deficiencies Are Observed, Indicate Corrective Action)

✓ Intact
___ Cuts
___ Seam Separations
___ Fatigue
___ Evidence Of Debris In Clean Room

Air lock aft clean rm - not sealed, corrected when seen. Shower not ready - must be turned on across st. As is DF is in work area - before gross removal begins DF WALL X-tended above to decking.

III) Determination Of Negative Air Flow: Comments: (If Deficiencies Are Observed, Indicate Corrective Action)

✓ Smoke Tube Test — Give Locations & Findings
✓ Pressure Gradient Measurements
✓ Visual Observations — Give Details

Tested plenum, good influx downward manometer reads 0.02" w/ ceiling open D.F. curtains show good flow

IV) Listing And Photo I.D. Of All Certified Workers On Site:	✓ Present	___ No
V) Posting Of All Applicable Regulations On-Site:	✓ Present	___ No
VI) Posting Of P.A. Specification On Site:	___ Present	✓ No
VII) Copy Of U.S.E.P.A. Notification Letter On-Site:	___ Present	✓ No
VIII) Posting Of Approved Restricted Access Warning Signs On-Site:	✓ Present	___ No
IX) Posting Of All Emergency Procedures And Phone Numbers On Site:	✓ Present	___ No
X) Contractors Daily Log Book On-Site:	✓ Present	___ No
XI) Current Results Of Air Monitoring On-Site: ✓ Not Available	___ Acceptable	___ Not Acceptable

Comments: D.F. must not be in work area when gross removal begins. After all demising walls are erected and polyed DA EMD will re-inspect to determine if area ready for gross removal. Consultant will have backround samples on site for future inspections. All deficiencies will be corrected before work cont.

Name: Keith J Boss

7/31/89 Inspection Date

12:30 AM PM Inspection Time

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

PA 3616 / 5-88

THE PORT AUTHORITY OF NY & NJ
ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-Checklist-

Facility: JFKIA AMD-13 Contract/TAA No.: ~~Y-6110A~~ 215.071

Location: Pan Am Worldport concourse
Phases I + II w/in containment

Asbestos Abatement Contractor: Aped

Abatement Company's On-Site Supervisor: G. Studenchi

Air Monitoring Company: ATC

Air Monitoring Company's Industrial Hygienist Representative: Kurt Preston

Type of Respiratory Protection in Use: PAPR

I) Containment and Critical Barrier: Comments: (If Deficiencies Are Observed, Indicate Corrective Action)

✓ Intact
___ Cuts
___ Seam Separation
___ Fatigue

Note: due to overspray containment barrier at rear perimeter not attatched to decking. Must be resealed after strip removal before gross removal starts

II) Decontamination Barrier: Comments: (If Deficiencies Are Observed, Indicate Corrective Action)

✓ Intact
___ Cuts
___ Seam Separations
___ Fatigue
___ Evidence Of Debris In Clean Room

Discover extra set (3) of flaps, airlock between work area and dirty room - not necessary. Flaps are to be rolled up and left open. Shower functional as is 5 μm filter - wast water will be bagged.

III) Determination Of Negative Air Flow: Comments: (If Deficiencies Are Observed, Indicate Corrective Action)

✓ Smoke Tube Test — Give Locations & Findings
✓ Pressure Gradient Measurements
✓ Visual Observations — Give Details

Smoke test yields several air influxes will be foamed manometer reads 0.01" H_2O w/ traps low, one off curtains and interior poly show good neg pull.

IV) Listing And Photo I.D. Of All Certified Workers On Site:	✓ Present	___ No
V) Posting Of All Applicable Regulations On-Site:	✓ Present	✓ No
VI) Posting Of P.A. Specification On Site:	✓ Present	✓ No
VII) Copy Of U.S.E.P.A. Notification Letter On-Site:	✓ Present	___ No
VIII) Posting Of Approved Restricted Access Warning Signs On-Site:	✓ Present	___ No
IX) Posting Of All Emergency Procedures And Phone Numbers On Site:	✓ Present	___ No
X) Contractors Daily Log Book On-Site:	✓ Present	___ No
XI) Current Results Of Air Monitoring On-Site: ✓ Not Available	___ Acceptable	___ Not Acceptable

Comments: Combined phases w/in single containment. Posted is DOL ACP + receipt for flame retardent plywood (previously questioned) is acceptable. Abatement may begin after containment at decking resealed. Deficiencies will be corrected by tomorrow. EMD will inspect that above satisfied. Also PA specs will be provided.

Name: Keith J Doss

8/2/89 Inspection Date

12:00 AM PM Inspection Time

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ
ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

215.071
215.071

Facility: JFKIA AMD-13 Contract/TAA No.: ~~Y-6135A~~

Location: Pan Am - World port - East Concourse - Phase

Asbestos Abatement Contractor: Aped

Project Status: ____ Pre-Construction Meeting ____ Pre-Abatement Preparation ✓ Work In Progress
____ Cleaning Phase ____ Final Air Sampling

Comments: 1100 On site inspect general area, licenses, clean rm and negative air; all licenses valid, clean room has no debris and manometer reads -0.05" H_2O
1125 Set up samples JFKIA-1363 and Blank JFKIA-1364
1315 Collect samples
1330 Off Site

No Further entrys authorized

Keith Goss
(Print) Name

Signature

8/04/89
Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

215.071

Facility: JFKIA AMD-13 **Contract/TAA No.:** ~~V-613SA~~

Location: Pan Am - Worldport - East Concourse - Phase Ia

Asbestos Abatement Contractor: Aped

Project Status:
____ Pre-Construction Meeting ____ Pre-Abatement Preparation ____ Work In Progress
✓ Cleaning Phase ____ Final Air Sampling

Comments: 1245 On site at Worldport Greggory Studeschi, Aped tells me he has attempted to page me for last ½ hr. I show him my page display - all pages attempted preceeded with the # '1' thus eliminating last digit. Yet I was informed yesterday that area would be ready after 1200 so I expected pre-encapsulant visual. Despite fact that he has attempted to contact me for said purpose ATC rep Curtis Preston has yet to inspect area I make it clear that the Port Authority does not give visuals to satisfy third party, ATC, and that ATC must feel competent w/ Apeds work before Port Authority visual granted. Since this may have been unclear I am willing to accompany Preston, who is reluctant to go into area due to unknown malady, but does go in when I stress aforementioned PA role, he double suits and enters work area. AP

1330 Many areas found w/in work area which need further attention: walls - seams, floor - especially corners & around eq, under microtrops, areas of fatigued folded poly and

Keith Goss — Keith Goss — 8/7/89
(Print) Name — Signature — Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

IMPORTANT: Type or print firmly so that all copies are legible

PA 3617 / 5-88

THE PORT AUTHORITY OF NY & NJ

ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-NARRATIVE-

215.071

Facility: JFKIA AMD-13 **Contract/TAA No.:** ~~4-6135A~~

Location: Pan Am - Worldport - East Concourse - Phase I

Asbestos Abatement Contractor: Aped

Project Status:
- ___ Pre-Construction Meeting
- ___ Pre-Abatement Preparation
- ___ Work In Progress
- ✓ Cleaning Phase
- ___ Final Air Sampling

Comments: 1330 (cont'd) around several clamps on black iron. After only partially inspecting areas of removal, beams and overspray (partially = since grass amts of ACM debris on floors, walls etc.) they appear to be cleaned well. I recommend area be recleaned concentrating on above defficiencies, also outer two chambers of D.F.

1400 off site go to Pan Am Hanger 19.

Keith Cass
(Print) Name

Keith Case
Signature

8/7/89
Date

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

PA 3616 / 5-88

THE PORT AUTHORITY OF NY & NJ
ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos Abatement Supervisor's Log
-Checklist-

215.071

Facility: TFKIA AMD-13 Contract/TAA No.: ~~Y-6135A~~
Location: Pan Am - World port · Phase I

Asbestos Abatement Contractor: Aped
Abatement Company's On-Site Supervisor: G. Studenchi
Air Monitoring Company: ATC
Air Monitoring Company's Industrial Hygienist Representative: Kurt Preston
Type of Respiratory Protection in Use: PAPR

I) Containment and Critical Barrier: Comments: (If Deficiencies Are Observed, Indicate Corrective Action)

- ✓ Intact
- ✓ Cuts
- ✓ Seam Separation
- ✓ Fatigue

Due to great neg air poly has ballooned and has seperated from walls yet containment not compromised. Folds + cuts in poly have accumulated debris which fell from beams. All seams, cuts and folds must be recleaned

II) Decontamination Barrier: Comments: (If Deficiencies Are Observed, Indicate Corrective Action)

- ✓ Intact
- ___ Cuts
- ___ Seam Separations
- ___ Fatigue
- ___ Evidence Of Debris In Clean Room

DF is in good shape yet some debris found in equipment room. Recomend last 2 compartments be recleaned.

III) Determination Of Negative Air Flow: Comments: (If Deficiencies Are Observed, Indicate Corrective Action)

- ✓ Smoke Tube Test — Give Locations & Findings
- ✓ Pressure Gradient Measurements
- ✓ Visual Observations — Give Details

Good influx at D.F. curtains, poly balloons manometer reads above 0.05" H_2O

IV) Listing And Photo I.D. Of All Certified Workers On Site:	✓ Present	___ No
V) Posting Of All Applicable Regulations On-Site:	✓ Present	___ No
VI) Posting Of P.A. Specification On Site:	✓ Present	___ No
VII) Copy Of U.S.E.P.A. Notification Letter On-Site:	✓ Present	___ No
VIII) Posting Of Approved Restricted Access Warning Signs On-Site:	✓ Present	___ No
IX) Posting Of All Emergency Procedures And Phone Numbers On Site:	✓ Present	___ No
X) Contractors Daily Log Book On-Site:	✓ Present	___ No
XI) Current Results Of Air Monitoring On-Site: ___ Not Available	✓ Acceptable	___ Not Acceptable

Comments: Inspected beams only partially due to gross amts of debris on floor, at seams, in holes in poly, on equipment, under microtraps, on clamps. Area must be recleaned w/ concentration on poly. ATC consultant aggrees that area must be recleaned

Name: [signature] 08/07/89 Inspection Date 1:30 AM PM Inspection Time

Routing: Original—EMD Office, 2 yellow—EMD Project Supervisor, 3 pink—Facility Manager

TENANT REVIEW REQUEST

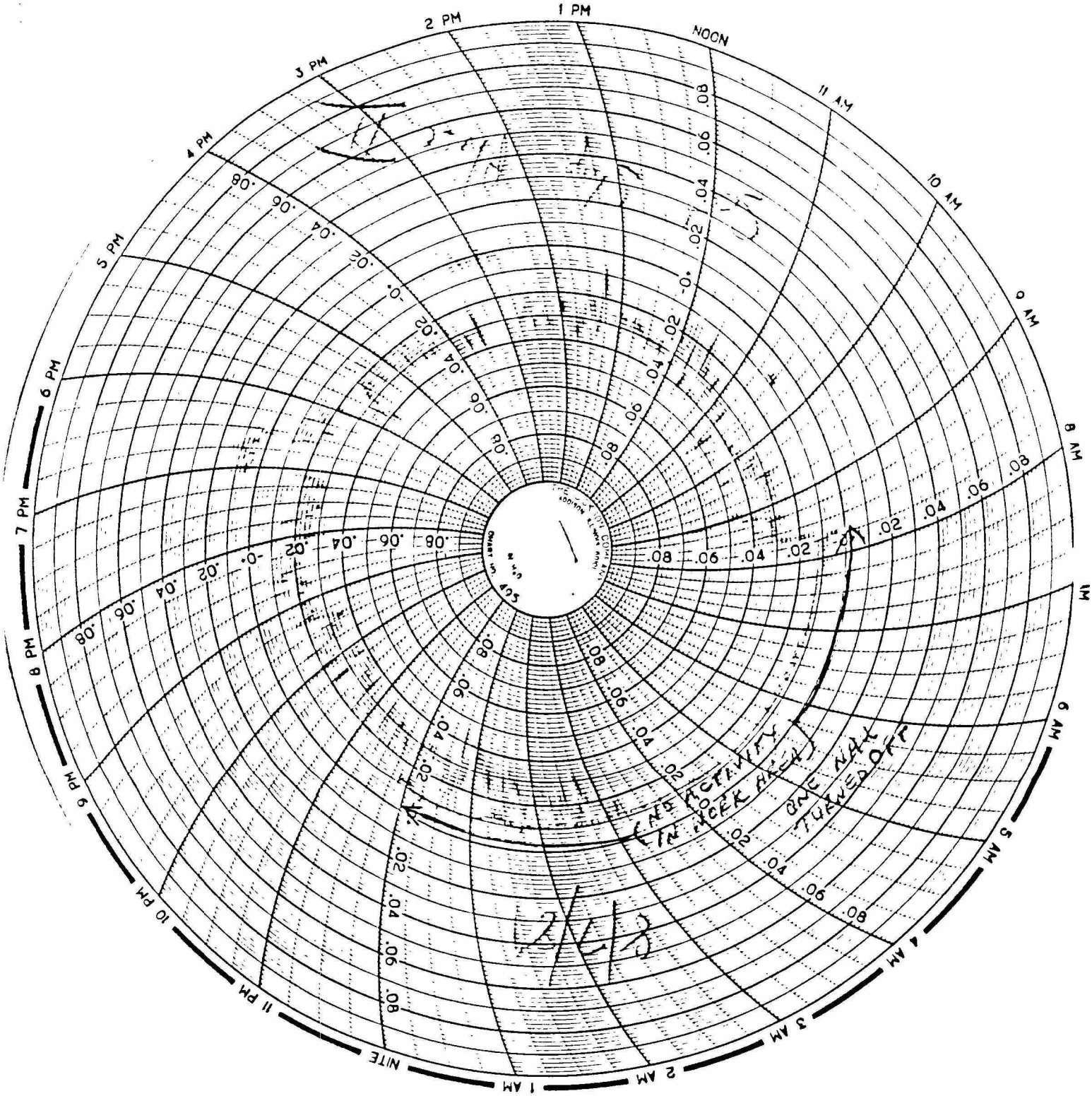
[redacted]

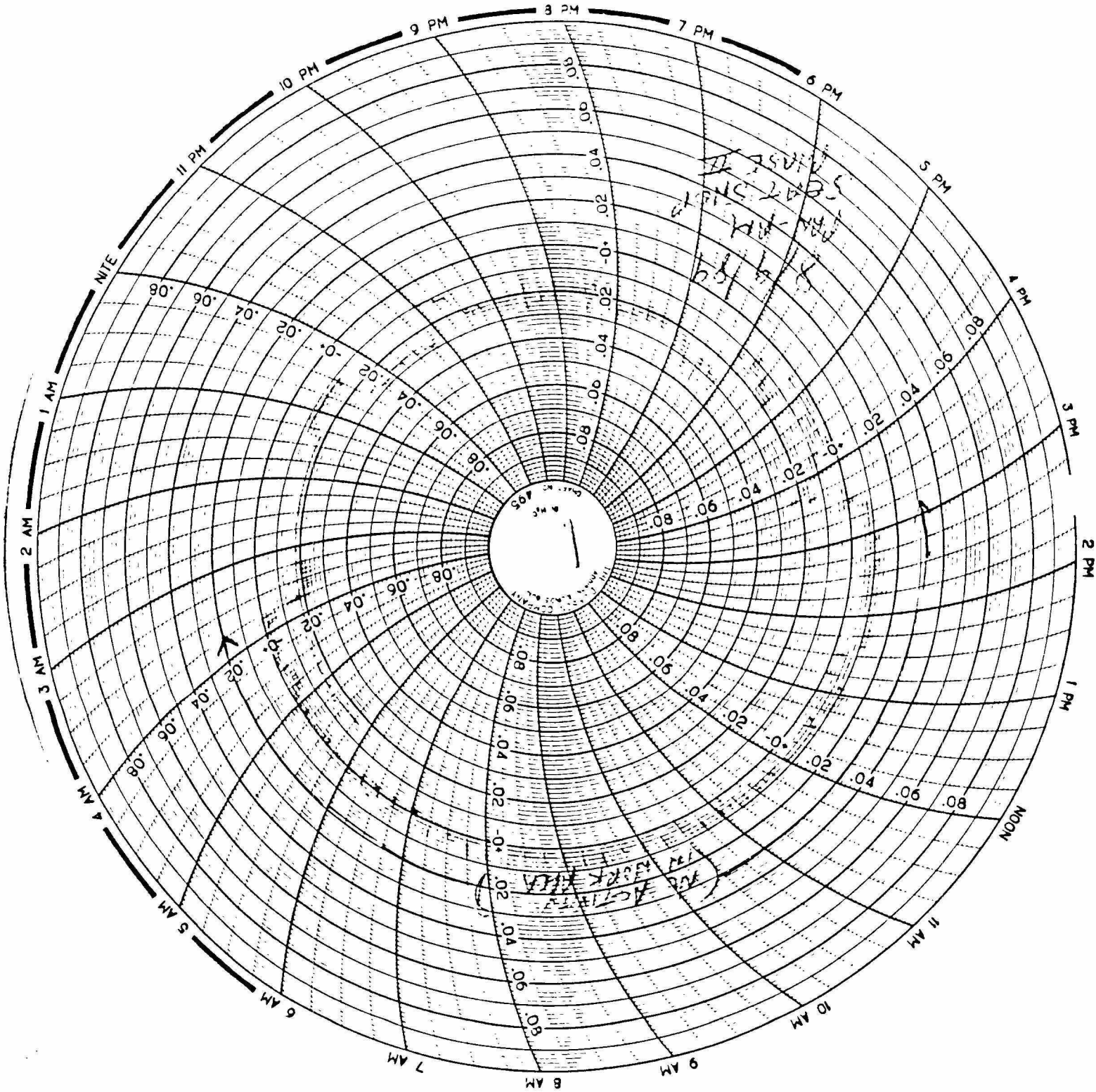
DATE: 6/28/89 AMD-13

TAA N°: Y-6135A PAN AM WORLDPORT - GATE 9

NAME	COMPANY	TELEPHONE
MAURICE KOPELOWICZ	P.A. TENANT LIAISON	[redacted]
LUMO TSUNG	ATC ENVIRONMENTAL, INC.	
Keith Goss	PA EMD	
TONY FONTANETTA	P.A. E.M.D.	
RON DURANTE	P.A. REO	
Bob Pinno	P.A. Env Eng	
MIKE CAPASSO	P.A./R.E.O.	

APPROVED 6/28/89


1 PM
2 PM
3 PM
4 PM
5 PM
6 PM
7 PM
8 PM
9 PM
10 PM
11 PM
NITE
1 AM
2 AM
3 AM
4 AM
5 AM
6 AM
7 AM
8 AM
9 AM
10 AM
11 AM
NOON
(NO ACTIVITY IN WORK AREA)
ONE NAV TURNED OFF
2/4/3


NOON
1 PM
2 PM
3 PM
4 PM
5 PM
6 PM
7 PM
8 PM
9 PM
10 PM
11 PM
NITE
1 AM
2 AM
3 AM
4 AM
5 AM
6 AM
7 AM
8 AM
9 AM
10 AM
11 AM

ENVIRONMENTAL COMPLIANCE LABORATORIES, INC.

ECL

214 Marcus Boulevard, Hauppauge, New York 11788 Tel: (516) 273-3150 Fax: (516) 273-3727

AIR SAMPLE ANALYSIS

Enviropact Northeast
540 Palmer Road
Yonkers, New York 10701-52077

Samples taken at Pan Am
FIND NO.# 4-8-25
Sampling Date: 08-09-89
Analysis Date: 08-09-89 Report Date: 08-09-89

ECL Sample Number	Sample Time	Volume (liters)	Concentration (f/cc)*
[redacted]			

Analytical Method: NIOSH 7400 ("B" Rules)
f/cc = Fibers Per Cubic Centimeter of Air
< = Sample concentration is as reported, but is below limit of detection
BDL = Below Detectable Level
ELAP Certificate #10911
* This test report relates only to the items tested and must not be reproduced, except in full, without the approval of the laboratory.

ENVIRONMENTAL COMPLIANCE LABORATORIES, INC.

2 Marcus Boulevard, Hauppauge, New York 11788 Tel: (516) 273-3150 Fax: (516) 273-3727

AIR SAMPLE ANALYSIS

Enviropact Northeast
540 Palmer Road
Yonkers, new York 10701-52077

Samples taken at Pan Am
FIND NO.# 4-8-17
Sampling Date: 08-07-89
Analysis Date: 08-08-89 Report Date: 08-09-89

ECL Sample Number	Sample Time	Volume (liters)	Concentration (f/cc)*
[redacted]			

Analytical Method: NIOSH 7400 ("B" Rules)
f/cc = Fibers Per Cubic Centimeter of Air
< = Sample concentration is as reported, but is below limit of detection
BDL = Below Detectable Level
ELAP Certificate #10911
* This test report relates only to the items tested and must not be reproduced, except in full, without the approval of the laboratory.

ENVIRONMENTAL COMPLIANCE LABORATORIES, INC.

ECL

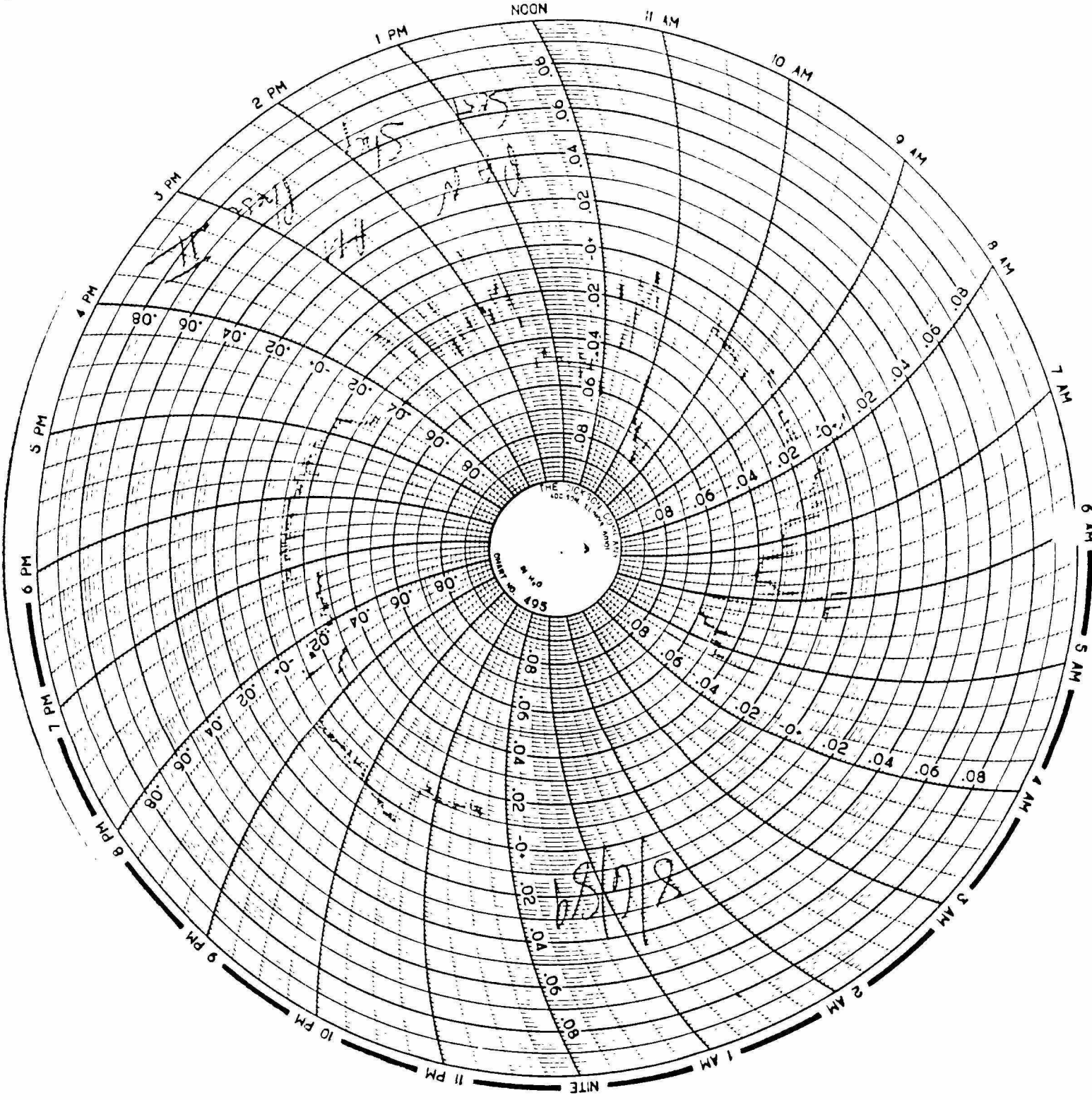
1 Marcus Boulevard, Hauppauge, New York 11788 Tel: (516) 273-3150 Fax: (516) 273-3727

AIR SAMPLE ANALYSIS
Enviropact Northeast
540 Palmer Road
Yonkers, New York 10701-52077

Samples Taken At Pan Am
FIND #4-7-30
Sampling Date: 8/6/89
Analysis Date: 8/7/89 Report Date: 8/8/89

ECL Sample Number	Sample Time: Mins.	Volume (liters)	Concentration (f/cc)*
[redacted]			

Analytical Method: NIOSH 7400 ("B" Rules)
f/cc = Fibers Per Cubic Centimeter of Air
< = Sample concentration is as reported, but is below limit of detection
BDL = Below Detectable Level
ELAP Certificate #10911
* This test report relates only to the items tested and must not be reproduced, except in full, without the approval of the laboratory.


NOON
11 AM
10 AM
9 AM
8 AM
7 AM
6 AM
5 AM
4 AM
3 AM
2 AM
1 AM
NITE
11 PM
10 PM
9 PM
8 PM
7 PM
6 PM
5 PM
4 PM
3 PM
2 PM
1 PM
90.
80.
.02
-0-
.04
.06
.08

ENVIRONMENTAL COMPLIANCE LABORATORIES, INC.

214 Marcus Boulevard, Hauppauge, New York 11788 Tel: (516) 273-3150 Fax: (516) 273-3727

AIR SAMPLE ANALYSIS
Enviropact Northeast
540 Palmer Road
Yonkers, New York 10701-52077

Samples Taken At Pan Am
FIND #4-7-30
Sampling Date: 8/6/89
Analysis Date: 8/7/89 Report Date: 8/8/89

ECL Sample Number	Sample Time: Mins.	Volume (liters)	Concentration (f/cc)*
[redacted]			

Analytical Method: NIOSH 7400 ("B" Rules)
f/cc = Fibers Per Cubic Centimeter of Air
< = Sample concentration is as reported, but is below limit of detection
BDL = Below Detectable Level
ELAP Certificate #10911
* This test report relates only to the items tested and must not be reproduced, except in full, without the approval of the laboratory.

ENVIRONMENTAL COMPLIANCE LABORATORIES, INC.

214 Marcus Boulevard, Hauppauge, New York 11788 Tel: (516) 273-3150 Fax: (516) 273-3727

AIR SAMPLE ANALYSIS

Enviropact Northeast
540 Palmer Road
Yonkers, new York 10701-52077

Samples taken at Pan Am
FIND NO.# 4-8-17
Sampling Date: 08-07-89
Analysis Date: 08-08-89 Report Date: 08-09-89

ECL Sample Number	Sample Time	Volume (liters)	Concentration (f/cc)*
[redacted]			

Analytical Method: NIOSH 7400 ("B" Rules)
f/cc = Fibers Per Cubic Centimeter of Air
< = Sample concentration is as reported, but is below limit of detection
BDL = Below Detectable Level
ELAP Certificate #10911
* This test report relates only to the items tested and must not be reproduced, except in full, without the approval of the laboratory.

ENVIRONMENTAL COMPLIANCE LABORATORIES, INC.

214 Marcus Boulevard, Hauppauge, New York 11788 Tel: (516) 273-3150 Fax: (516) 273-3727

AIR SAMPLE ANALYSIS

Enviropact Northeast
540 Palmer Road
Yonkers, New York 10701-52077

Samples taken at Pan Am
FIND NO.# 4-8-25
Sampling Date: 08-09-89
Analysis Date: 08-09-89 Report Date: 08-09-89

ECL Sample Number	Sample Time	Volume (liters)	Concentration (f/cc)*
[redacted]			

Analytical Method: NIOSH 7400 ("B" Rules)
f/cc = Fibers Per Cubic Centimeter of Air
< = Sample concentration is as reported, but is below limit of detection
BDL = Below Detectable Level
ELAP Certificate #10911
* This test report relates only to the items tested and must not be reproduced, except in full, without the approval of the laboratory.

6-ENG

PORT AUTHORITY OF NEW YORK AND NEW JERSEY
Asbestos Certification Letter and Permit Application

Y-6110A

Instructions: Part One or Two of the Asbestos Certification Letter and Permit Application shall be completed and submitted with form PA-531. If Part Two indicates that asbestos containing material will be disturbed during the term of the project, then complete Part Three, Asbestos Abatement Permit Application.

Part One - Certification of a Non-Asbestos Project

The area of construction has been surveyed and no asbestos containing material (ACM) is present or will be disturbed during the course of this project. Complete one of the following:

NJ Facility:

Name of Professional Engineer or Architect	Signature of Professional Engineer or Architect	License No.	Date

NY Facility: Pan American World Port, Building #53 South Concoarse, Supplementary air

Name of Certified NYC Investigator	Signature of Certified NYC Investigator	Certification Number	Date

Part Two - Certification of an Asbestos Project

The area of construction has been surveyed, samples have been taken and the test results of the suspect asbestos containing material (acm) reveals the following:

ACM - PRODUCT	TYPE OF ASBESTOS	APPROX. % OF ASBESTOS	No. of Samples	No. of Positive
Spray-on Material	Chrysotile	10-25%	4	2
Pipe Insulation				
Boiler Insulation				
Other				

Note: Type of Asbestos = Chrysotile, Amosite, Crocidolite, Anthophyllite, Tremolite and Actinolite

Name of Certified Environmental Consultant	Signature of Certified Environmental Consultant	ABIH #3300 Environmental Consultant Certificate No.	6-27-89 Date

ABIH CERT NO. 3300 ALBERT PEREZ, CIH PENNSYLVANIA-1988

PA LAW DEPARTMENT
62722

6-ENG

Part Three - Asbestos Abatement Permit Application

A. LOCATION:
Facility — PAN AM WORLD PORT JFK INT'L
Building No. — 53
Building Area — SO. CONCOURSE LEVEL SUPPLEMENTARY AIR
A. Boiler Room
B. Mechanical Equipment Room
C. Other

B. PURPOSE: Reason for abatement: Operation & Maintenance ____
Demolition ____ Renovation X Other ____

C. SCOPE OF WORK, TYPE OF MATERIAL AND ASSOCIATED COSTS:
(Cost information is not necessary if Waiver is signed)

1. Removal

Boiler Insulation	SQ.FT.
Pipe Insulation	L.FT.
Pipe Elbows/Fittings	#
Duct Insulation	SQ.FT.
Spray-on Fireproofing	225 SQ.FT.
Transite Material	SQ.FT.
Cable Insulation	L.FT.
Other	
Total Cost Of Abatement (Materials, Labor, Disposal, etc.) *	$ 23,000

2. Replacement

Boiler Insulation	SQ.FT.
Pipe Insulation	L.FT.
Pipe Elbows/Fittings	#
Duct Insulation	SQ.FT.
Spray-on Fireproofing	200 SQ.FT.
Transite Material	SQ.FT.
Cable Insulation	
Other	
Total Cost Of Replacement (Materials, Labor, etc.) *	3,000 $

3. Cleanup/Repair

(Indicate Quantity	2000 CU.FT.
Total Cost Of Cleanup (Labor, Disposal, etc.)*	$ 9,000

4. Size Of Site Containment — 200 SQ.FT.

5. Does the scope of work described in this tenant alteration application include work other than asbestos abatement ? Yes X No ____

* Estimate of costs required only if tenant wishes to participate in the Port Authority lawsuit against miners and manufacturers of asbestos products found within Port Authority buildings.

6-ENG

D. ABATEMENT METHOD
1. Glove Bag Procedure
2. Full Site Containment
3. Partial Containment
4. Structural Containment (Enclosure) — X
5. Other — TENT PROCEDURE

E. ASBESTOS ABATEMENT CONTRACTOR
Name — APED CO. INC.
License Number — AC-88-049
Address — 62 PORETE AVENUE
Telephone Number — NO. ARLINGTON, NEW JERSEY 07032
Contractor Project Supervisor — JAN SZYMANSKI
Principal — JOE SHANNON

F. ASBESTOS WASTE DISPOSAL HAULER
Name — ADA
Address — 170 CHANGEBRIDGE RD. MONTVILLE, NJ 107045
Telephone Number — (201) 227-8160

G. ENVIRONMENTAL LAB
Name — ATC ENVIRONMENTAL INC.
Address — 104 E. 25TH ST. NYC 10010
Telephone Number — (212) 353-8280

H. ESTIMATED ABATEMENT SCHEDULE (see attached Waiver Letter)
Start Date: _____ Completion Date: _____

I. TENANT CONTACT
Name — FRANK GRILL (PAN AM)
Telephone Number — (718) 632-5129

Part Four - INFORMATION TO BE FURNISHED BY THE LINE DEPARTMENT

A. TAA No.: Y-6110A Cost Recovery No.: 215.072
B. Line Department Project Manager: Paul Fernandez
Telephone Number: (718)-656 2584

Part Five - APPROVAL BY PORT AUTHORITY:

The asbestos abatement permit application has been reviewed and the specifications, drawings, and the information in items 3-7 have been approved.

Environmental Engineering — 7/17/89
Signature: _____
Title: _____
Date: _____

Environmental Management Division — Ferdinando
Signature: _____
Title: _____
Date: 7/14/89
Permit No. _____

1/89

6-ENG

PAN AM

8/30/89

Y-6110 & Y-6110A

(1)

SUPPLEMENTAL A.C. in Concourse

It was reported to me by Tony Fontenetta, of the Asbestos Management Control Unit (EMU), that he ordered work stopped last night due to unsafe environmental conditions at the work site.

It seems that construction had started on Y-6110 because the asbestos abatement phase under Y-6110A had been completed, but it appears that asbestos is still being disturbed during construction. ~~because the ductwork is new ductwork~~ In the area in question, spot removal of asbestos was approved & completed for new ductwork hangers. Unfortunately, the new ductwork activity is disturbing asbestos material

PA LAW DEPARTMENT 62435

above ~~the~~ because of the close proximity of the top surface of the new ductwork, and accidental disturbance of ACM cannot be controlled. ACM ~~was~~ had fallen on public surface areas & the workmen were at risk, not to mention potential public.

Asbestos removal workers from APED were present dusting the metal pan ceiling units for removal at the same proximity of the construction workers! The APC representive was present & he understood the problem & the risks present, but said he could not stop the work because of Tenant (Pan Am) pressure on his Superiors to do the construction.

After checking my records, & with the T.L.O., the TAA

Y-6110 for the construction work has not been approved yet, Therefore the work is "Unauthorized construction" and should have not been started in the first place.

A revised asbestos removal process ~~is in order~~ should be submitted by Pan Am (APC) based on field conditions not anticipated.

I will direct Pan Am to stop all work on Y-6110 until all this is resolved.

M J Cagliasso

P.S. Frank Grill has agreed to stop all work under Y-6110 & resolve the asbestos condition

JFK Resident Engineer's Office
Capasso Office - Tenant Asbestos Construction

TENANT ASBESTOS REMOVAL PROJECTS

DATE FORWARDED	CONTRACT OR Y-NUMBER	COST RECOVERY NUMBER	TITLE	DATE RETURNED
[redacted]				2-14
1/17/90	Y-6142A	215.075	Pan Am - Bldg #53 - Departure Level - Ceilings	2-14
1/17/90	Y-6123A	215.071	Pan Am - Bldg #53 - Gate #9	
[redacted]				
1/17/90	Y-6112A	215.063	Pan Am - Bldg #53 - Column Repairs/Pilot's Lounge	
1/17/90	Y-6110A	215.072	Pan Am - Bldg #53 - Supplemental Air Conditioning	
[redacted]				
1/17/90	Y-6080A	215.062	Pan Am - Bldg #53 - Odd Size West - O/B Baggage	
1/17/90	Y-6076	215.059	Pan Am - Bldg #53 - Canopies	2-14
1/17/90	Y-6074A	215.052	Pan Am - Bldg #53 - Baggage Claim Office	
1/17/90	Y-6072A	215.087	Pan Am - Bldg #53 - East - Immigration & Customs	
1/17/90	Y-6062A	215.505	Pan Am - Bldg #53 - O/B Baggage Sys.	
[redacted]				2-

PA LAW DEPARTMENT 64569

IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF NEW YORK

THE PORT AUTHORITY OF NEW YORK) AND NEW JERSEY (formerly known) as "The Port of New York) Authority" and PORT AUTHORITY) TRANS-HUDSON CORPORATION,) Plaintiffs,)
)CIVIL ACTION FILE NO.
- against -)
)91 CIV 0310(CLB)(MDF)
ALLIED CORPORATION,) (individually) and as a)VOLUME III subsidiary of "Allied-Signal,) Inc."), et al.,) Defendants.)

UNITED STATES MINERAL PRODUCTS) COMPANY and DALEN (formerly) Isolatek Corp.),) Third-Party) Plaintiff,)
)
- against -)
)
TISHMAN REALTY AND) CONSTRUCTION CO., INC.,) et ano.,) Third-Party) Defendants.)

CONTINUATION OF THE DEPOSITION OF
WILLIAM M. EWING

November 13, 1996
9:15 a.m.

3800 One Atlantic Center
1201 West Peachtree Street
Atlanta, Georgia

Frances Buono, RPR, CCR-B-791

23

PRIOTIY-ONE COURT REPORTING, INC.

24 41 KELL AVENUE

STATEN ISLAND, NEW YORK 10314

25 (718) 761-0527

APPEARANCES OF COUNSEL

On behalf of the Plaintiff:

FREDERICK J. JEKEL, Esq.
Ness, Motley, Loadholt,
Richardson & Poole
151 Meeting Street
Suite 600
Charleston, South Carolina 29402

On behalf of the Defendant:
W. R. Grace & Co.-Conn.

DEAN R. NICYPER, Esq.
RICHARD WILLIAMSON, Esq.
Flemming, Zulack & Williamson, LLP
One Liberty Plaza
New York, New York 10006-1404

RICHARD C. FINKE, Esq.
W.R. Grace & Co.
One Town Center Road
Boca Raton, Florida 33486-1010

On behalf of the Defendant:
Asbestospray

KRISTI K. OTTMAR, Esq.
Stich, Angell, Kreidler,
Brownson, Ballou, P.A.
The Crossings, Suite 120
250 Second Avenue South
Minneapolis, Minnesota 55401

On behalf of the Defendant:
United States Mineral Products Company

CALUM B. ANDERSON, Esq.
Danaher, Tedford, Lagnese & Neal, P.C.
Capitol Place, 21 Oak Street

Hartford, Connecticut 06106

On behalf of the Defendant:
Tishman Realty & Construction Company

MARY L. McIVOR, Esq.
McMahon, Martine & Gallagher
One State Street Plaza
New York, New York 10004

WILLIAM M. EWING,

having been previously sworn, was examined and testified as follows:

FURTHER EXAMINATION

BY MR. NICYPER:

Q. Good morning, Mr. Ewing.

A. Good morning.

Q. When we finished yesterday, we were discussing JFK Building 53, that is what is currently the Delta Terminal, previously the Pan Am Terminal. I would like to pick up where we left off.

Let me show you one of your photographs, this is photograph 15 15:30. You can look at this one. And it is referred to in your field notes on Page 12 of 16.

A. Yes.

Q. Can you tell me what is depicted in this photograph?

A. It is a view of the fireproofing at a perimeter beam.

Q. It appears that there are -- is that a

single homogeneous fireproofing, in your opinion?

A. It doesn't appear to be. Does not appear to be.

Q. Do you know whether there was more than one type of fireproofing in that particular -- this is in the fourth floor mechanical equipment room; is that correct?

A. Yes. It is in the fourth floor mechanical equipment room.

Q. Do you know whether there is more than one type of fireproofing in that room?

A. Offhand, I do not. There may be information in the bulk sample survey in the binders, if there happened to be several taken there, which I can look through at this point and tell you.

Q. With respect to the Delta Terminal at JFK, are the opinions that you anticipate giving at trial in this case, with respect to this building, any different than those than you have mentioned with respect to Newark Terminal A? I think you had four items there?

A. I think they would be very consistent with what I said about the Newark Terminal A. I think there are some, I believe there are some items

on that list that we may have discussed yesterday that are quite specific to this building.

Q. Why don't we go ahead and look at

Exhibit 16, if you would. I believe that is the list you are referring to.

And on the bottom of the second page it appears to refer to this building, and carries over to the third page. There appear to be three paragraphs that reference this building. Is that correct?

A. Yes.

Q. The first paragraph refers to the baggage claim area of customs?

A. Yes.

Q. And your recommendation was that the debris should be cleaned up and the fireproofing removed?

A. In that area, yes.

Q. And when you say removed in that area, what area specifically is it you are referring to?

A. It is the -- there are baggage claim carousels for the international flights, which is separate from the other baggage claim, and the fireproofing in that area was rated as significantly damaged fireproofing.

Q. And was that because at times it appeared to have been impacted by baggage?

A. Some of it appears that that may have

been the case.

Q. And, is it your opinion that all of the fireproofing in that entire area, that baggage claim area, should be removed, or merely that fireproofing that may be impacted by baggage?

A. It would be my opinion that they remove all of the fireproofing in the area of, I think there are four or five baggage carousels. I don't think you could easily remove it in, for example, at each carousel because of the way you would have to contain it. You would have to contain an entire carousel, and you would want to remove all within the contained area.

The simple thing would be the cost of removing all of it would be, I think, almost identical to the cost of removing just the material that really has to be removed, or I think has to be removed.

Q. Is it your opinion that people in that baggage carousel area who pick up their bags are at risk?

MR. JEKEL: Objection to the form of

the question.

A. There may be some

exposure from time to time to passengers, but

it would be rather short-lived, I think.

Q. Is it your opinion that passengers should be notified of the condition of the fireproofing and the circumstances in those areas?

MR. JEKEL: Objection to the form of the question.

A. No.

Q. Do you know whether the fireproofing in that area has been removed since you made the recommendation?

A. I don't know.

Q. The next paragraph refers to the customs level arrivals outside. And I guess both paragraphs, to some extent, refer to the same recommendation, is that true? Let me ask it this way. Is the recommendation in the second paragraph on this third page refer to the circumstances described in the first paragraph on that page?

A. No, these are two different areas. The top paragraph on the third page refers to an area outside the building where some of the tiles need to

be replaced, as well as some areas out over the roadway that need to be replaced.

Whenever they choose to renovate or

remove the remaining tiles or whatever reason, that would be the time to abate the fireproofing.

Q. I see. And, if the fireproofing remains in the same condition, substantially the same condition it is currently in, and if they do not choose to remove the remaining tiles, is it your opinion that the material could stay in place until the time of demolition?

MR. JEKEL: Objection to the form of the question.

A. I think I could say as long as they don't disturb that area through renovation activities, then it could stay.

Q. I noticed in that paragraph there is no recommendation listed here. Did you make a recommendation regarding that area at the time of your inspection?

A. Only that the tiles, the metal pans, should be put back in. Well, not put back in, they were missing. The ones that were missing should be replaced.

Q. And then the last paragraph refers to

adherence to the O & M procedures; is that correct?

A. Yes.

Q. And, your recommendation there was that

material be cleaned up using the appropriate O & M techniques; is that correct?

A. Yes.

Q. Other than these three paragraphs concerning the Delta Terminal, did you make any other recommendations at the time of your inspection with respect to the asbestos-containing materials in this building?

A. No, I don't think so.

Q. Other than the recommendations listed in this Exhibit 16 with respect to the Delta Terminal, do you recommend abating or cleaning other areas in this building within any specified period of time?

MR. JEKEL: Objection to the form of the question.

A. It is my opinion that I think what they are doing is appropriate, which is abating areas as they are being renovated.

Q. With respect to Newark Airport Terminal A, the opinions I believe you stated you anticipate giving at trial with

respect to this building were one, the -- with respect to that building, were that the asbestos-containing fireproofing is friable. Would

you also get that opinion with respect to this building, the Delta Terminal?

A. Yes.

Q. Second opinion I think you stated was that the asbestos-containing material releases asbestos. Would you also give that opinion with respect to this Delta Terminal?

A. Yes.

Q. Third, I think you stated was that asbestos accumulation is high concentration. Would you also give that opinion with respect to the Delta Terminal?

A. Yes.

Q. And I think the fourth opinion you stated was that the fireproofing should be removed in a phased manner such as in conjunction with renovation or demolition. Would you also give that opinion with respect to the Delta Terminal?

A. Yes, with the exception of the customs baggage area.

Q. With respect to your last -- let me step back. Statement that the asbestos-containing

fireproofing in this building is friable, what is the basis for that opinion?

A. Physically touching the fireproofing, it

meets the definition of friable fireproofing. Also, I have never yet seen any spray-applied asbestos-containing fireproofing in which asbestos was added as a constituent to the product that was not friable. I am not aware that such a thing ever existed.

Q. Any other basis for that opinion?

A. Well, I think you can look at Mr. Hatfield's videotapes that demonstrate pretty clearly that, yeah, that stuff is friable.

Q. And those are the videotapes of the experiments or demonstrations he conducted at Port Authority buildings?

A. Yes.

Q. Do you know whether he conducted any demonstrations in this building, the Delta Terminal?

A. Offhand, I don't remember, I really don't.

Q. The opinion that asbestos-containing material releases asbestos, what is the basis for that opinion with respect to the Delta Terminal?

A. The presence of dust and debris on

surfaces below the in-place material. There are also a number of articles that we have referred to, again, yesterday, and other documents that have

concluded the same thing, that friable, spray-applied surfacing materials release fibers over time, or release asbestos.

Q. Any other basis for that opinion?

A. No, I think that is it.

Q. And then the third item that the asbestos accumulation is a high concentration, what is the basis for that opinion?

A. The results of dust sampling done in the building.

Q. And, this was dust sampling conducted by you?

A. Yes.

Q. Any other basis for that opinion?

A. The photographs and videotape of the inspection showing dust and debris on surfaces, visually.

Q. And how does that show a high concentration of asbestos fibers?

A. Well, the debris that is present is fireproofing debris, and would have the same concentration in it as the parent material. So, if

the parent material is 9 to 10 percent chrysotile,

the debris would be the same.

Q. Any other basis for that opinion?

A. No.

Q. And the final opinion that the fireproofing should be removed in a phased manner, such as in conjunction with renovation or demolition, what is the basis for that opinion?

A. Much of it would be required to be removed under the existing regulations, the NESHAP regulations. To me, the more important one would be to remove a hazardous material in a controlled manner, and then they can proceed with whatever renovation they want to do without unnecessarily exposing the workers who had come in to remodel the space or renovate the space.

Q. Under this particular opinion you have given, if, in fact, the fireproofing that is currently in the building remains substantially in the same condition it is in, and there were no further renovation activities, would it be your opinion that it should be removed at the time of demolition but not necessarily any sooner?

MR. JEKEL: Objection to the form of that question.

A. If it remained in the same condition, and they did no renovation activities to disturb it, or the dust and

debris from it, then that is certainly possible. If I can, without having to go back and say what the exception to the customs --

Q. Yes, with the exception of what we spoke about with respect to Exhibit 16, yes, I understand.

Are you aware of what other, other than fireproofing, what other asbestos-containing materials are in this building?

MR. JEKEL: Objection to the form of the question.

A. Not without going back through the binders to look at that.

Q. Let me show you in your binder from Volume 8, an item, which is listed in your reliance materials as 2-H. Within that section 2-H is a Hall-Kimbrell report. And, I am looking now at the first introductory page to it.

If you would look at the fourth paragraph of that introductory page, reads: "Building materials which have been confirmed by laboratory

analysis to contain asbestos include spray-applied fireproofing; corrugated, wrapped cardboard; and magnesia pipe coverings with mudded joint packing;

mudded joint packing on fiberglass-insulated piping systems; vinyl floor tiles; tank insulation and debris."

Do you see that?

A. Yes.

Q. Do you have any information inconsistent with that statement?

A. No.

Q. And your knowledge with respect to whether or not there are other asbestos-containing materials, other than fireproofing, in this building, is based on documents such as this Hall-Kimbrell report?

A. Yes.

Q. Feel free if you want to look at it.

A. No.

Q. Do you know how many hours you spent visiting this building?

A. I arrived at 9:30 in the morning on May 15. Actually, I must have arrived sooner than that. I took my last photograph at 4:39 in the afternoon. It looks like I was actually there

between about 9:15 in the morning and 5 o'clock in the afternoon.

Q. And that was on May 15, 1996?

A. Yes.

Q. Other than your visit on May 15, 1996, have you visited this building on any other occasion for the purpose of inspecting the fireproofing, or other asbestos-containing materials, taking photographs, taking videos, or taking dust or air samples?

A. No.

Q. Do you anticipate visiting this building again for any of these purposes?

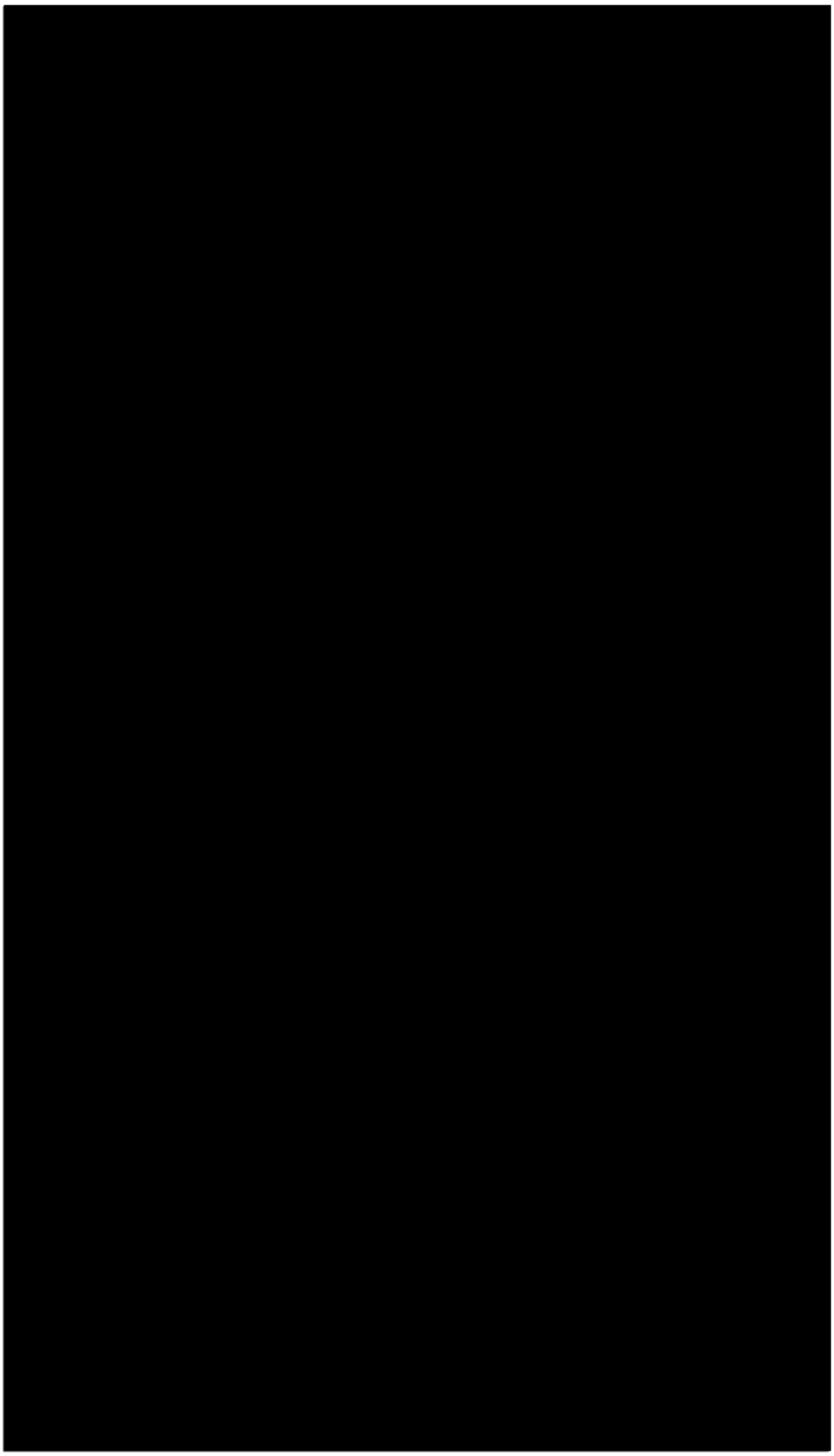
A. No.

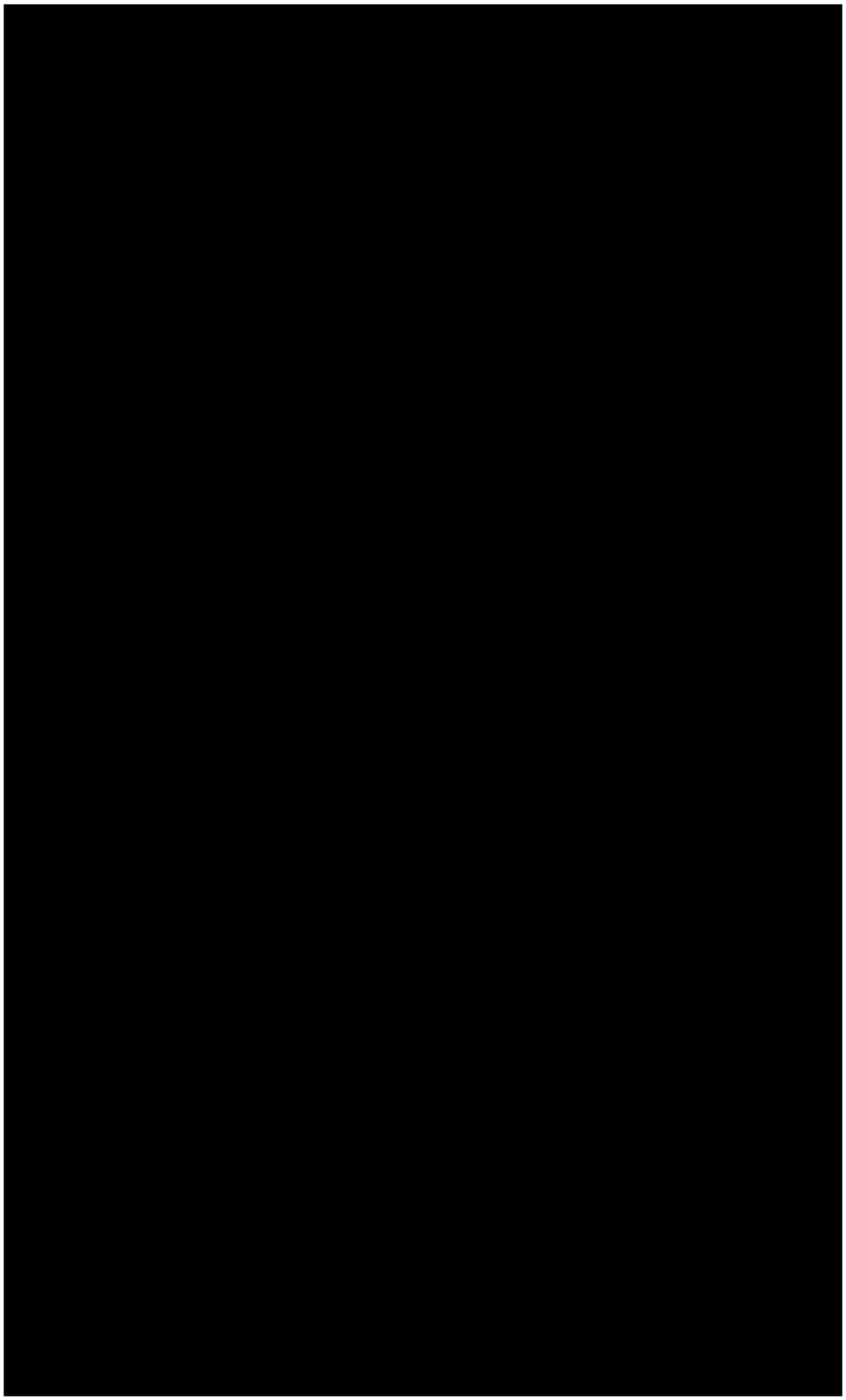
Q. Do you anticipate visiting this building again for any other purpose pertaining to this litigation?

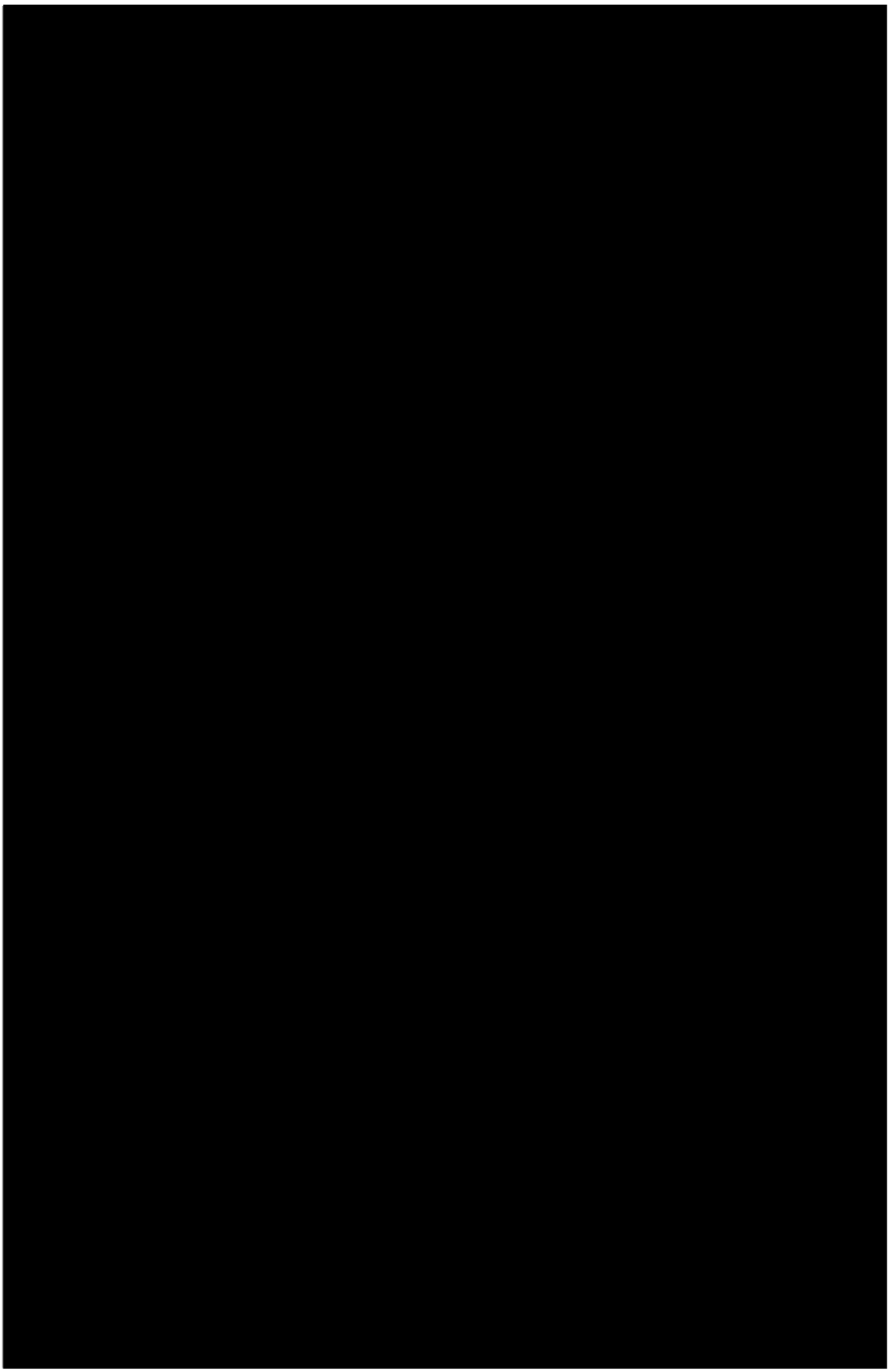
A. No.

(Ewing Exhibits 19 and 20 were marked for identification.)

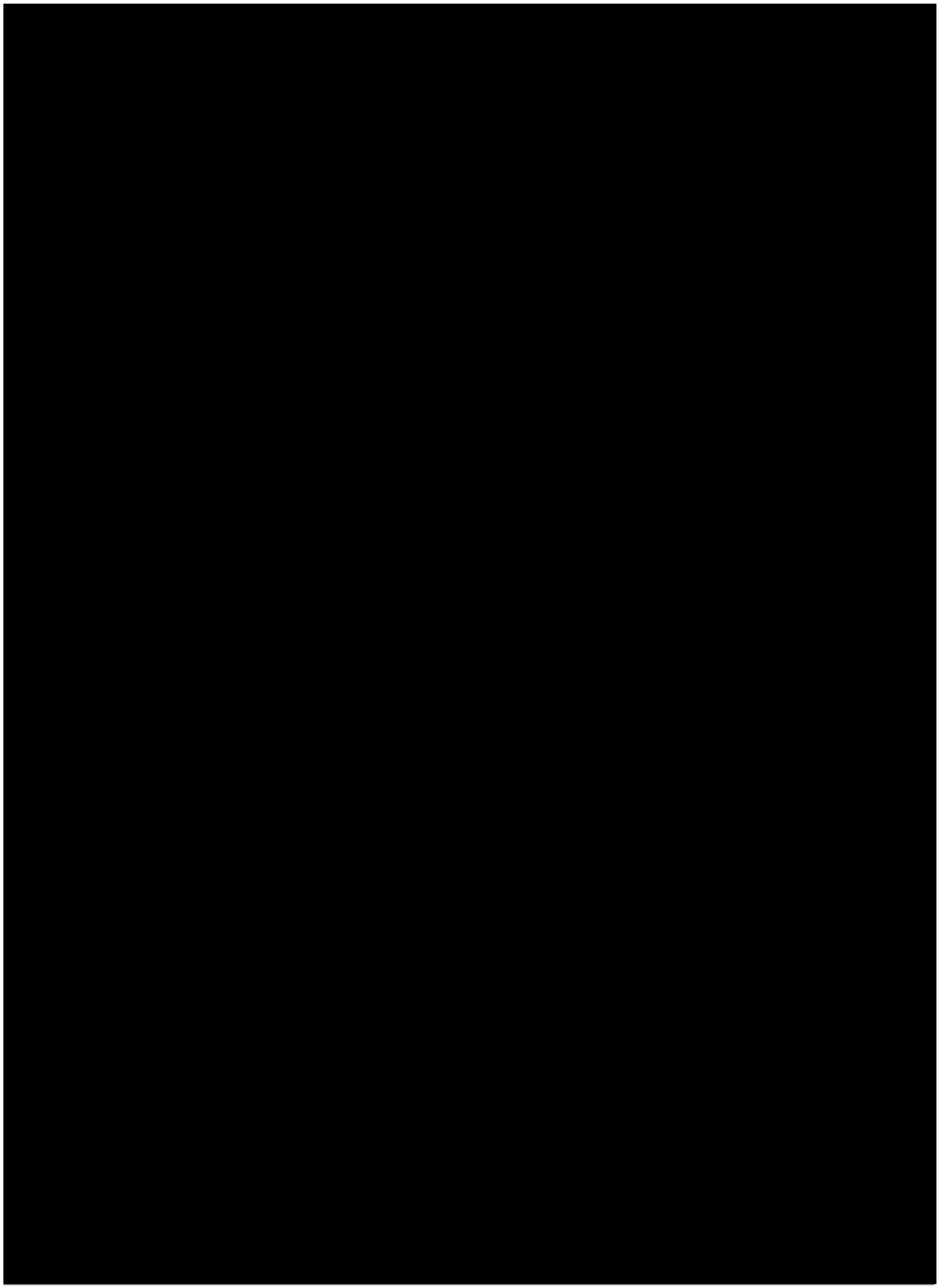
Q. (By Mr. Nicyper) Mr. Ewing, let me show you two documents that I have asked the court reporter to mark. [redacted]

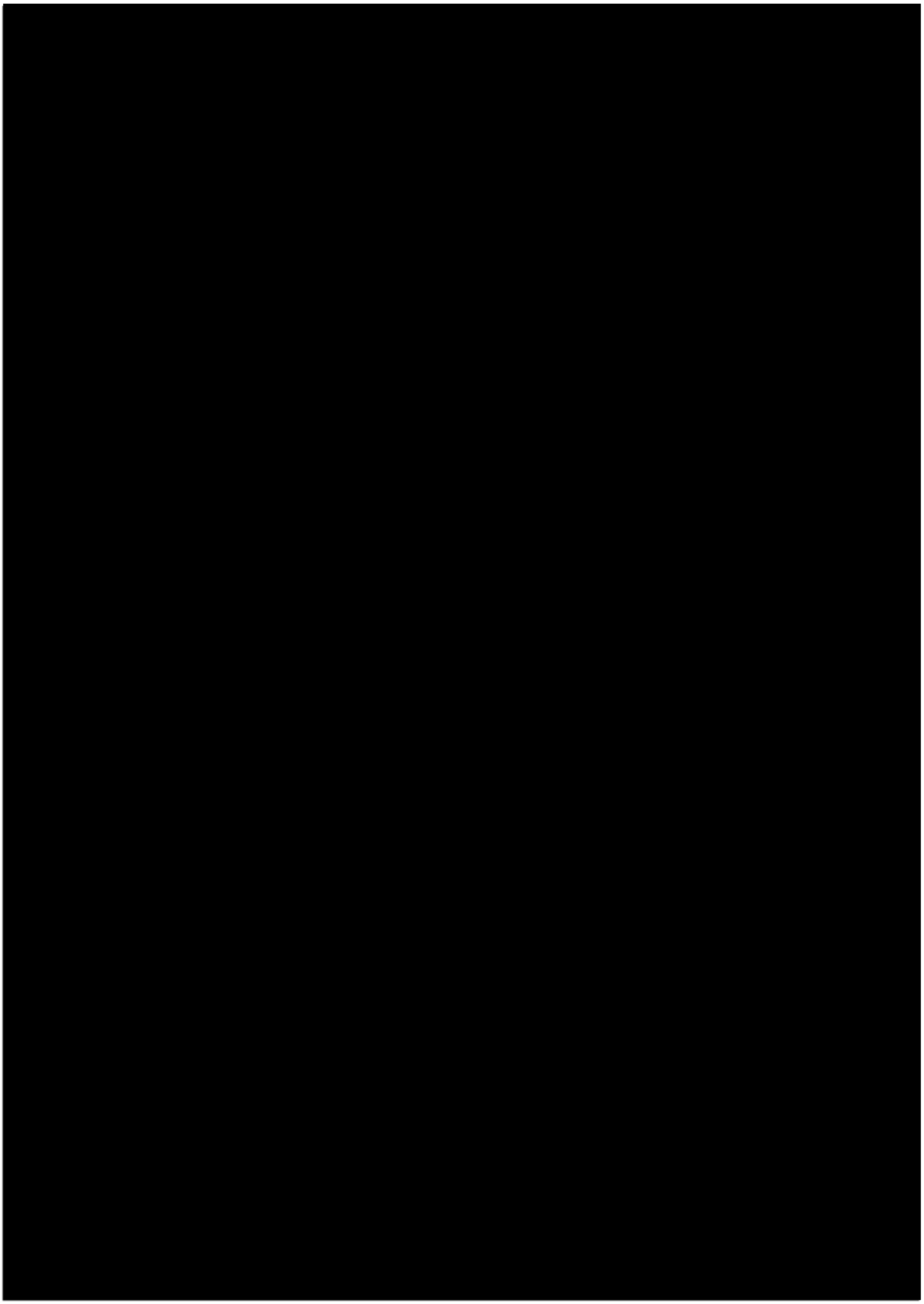


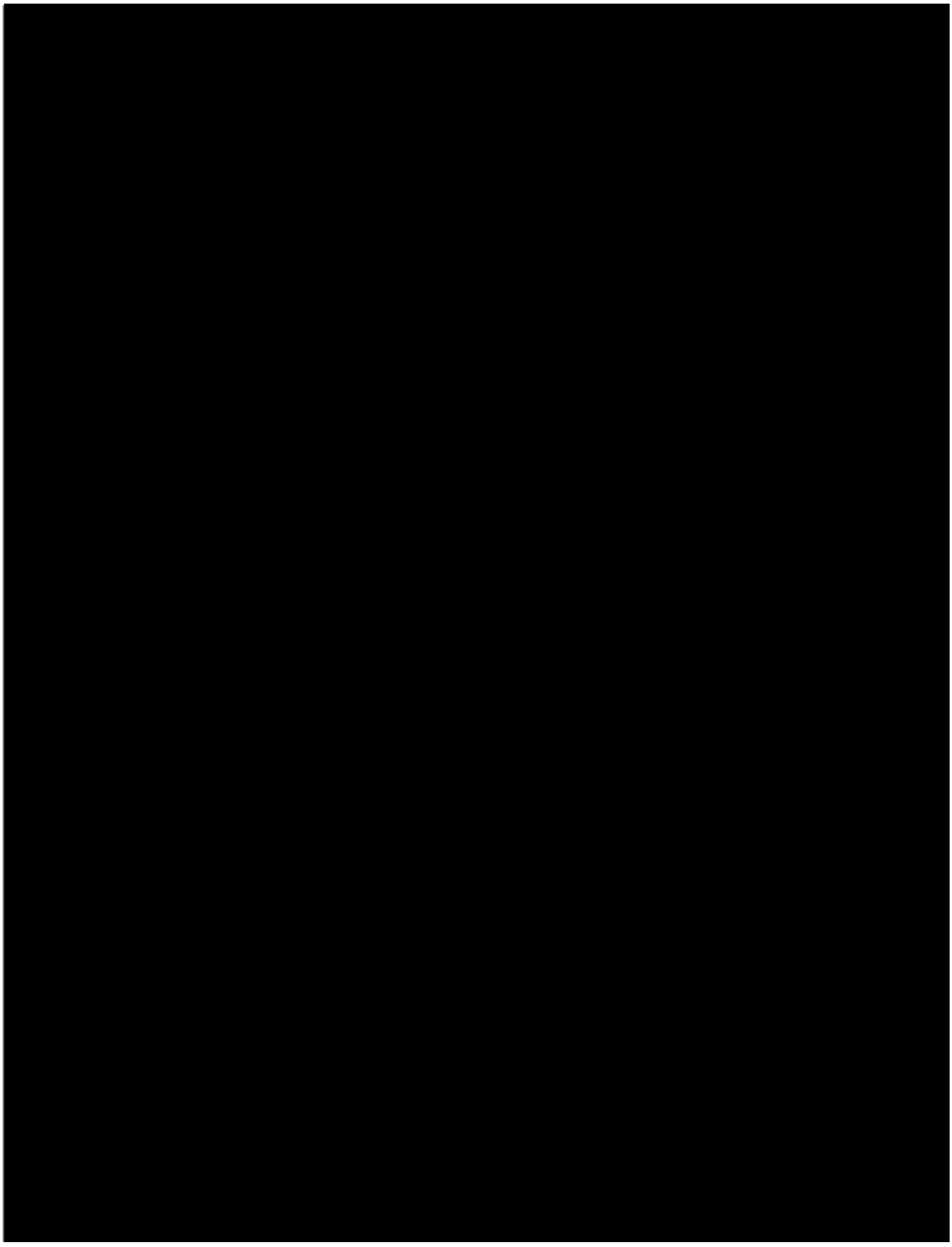


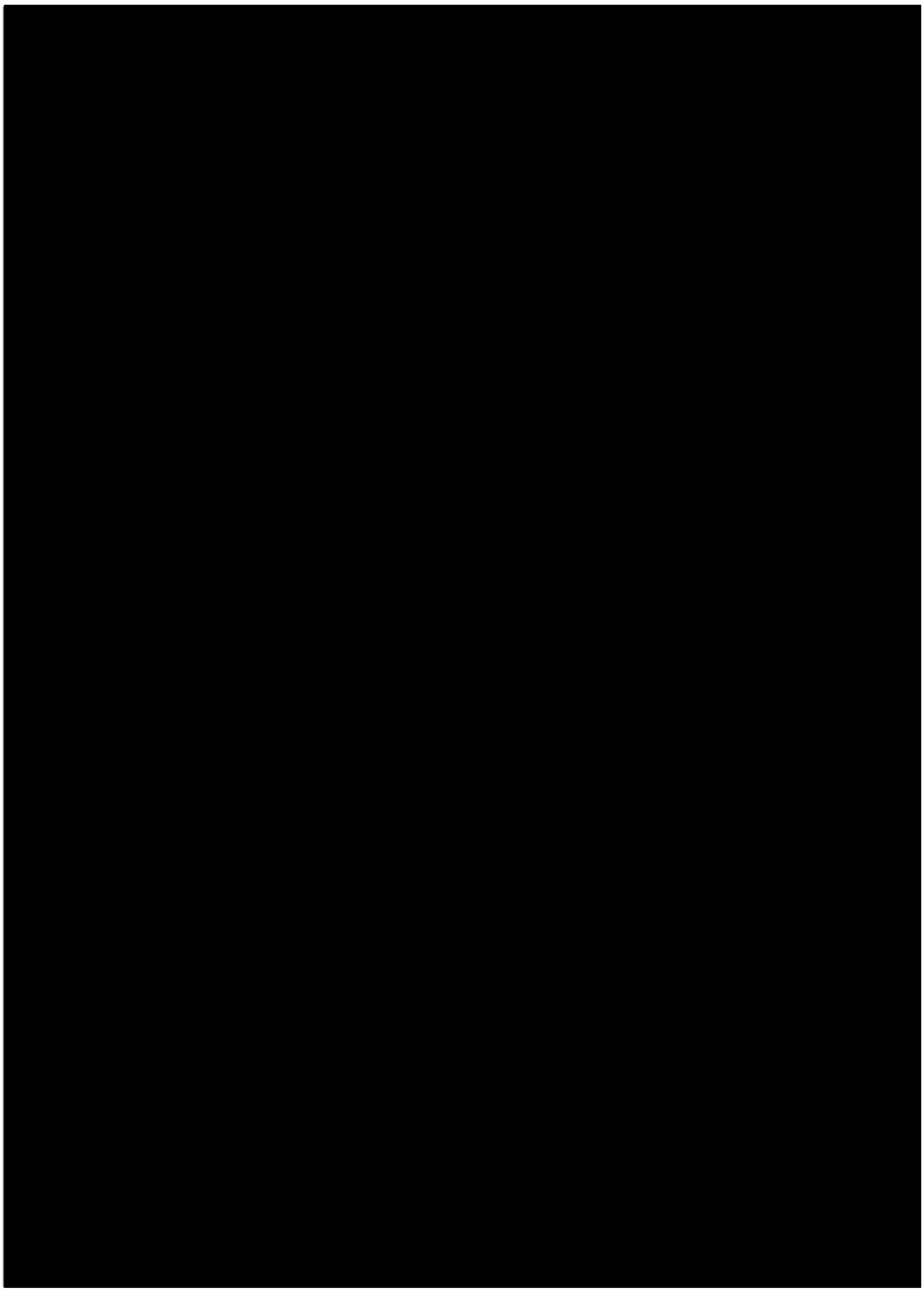


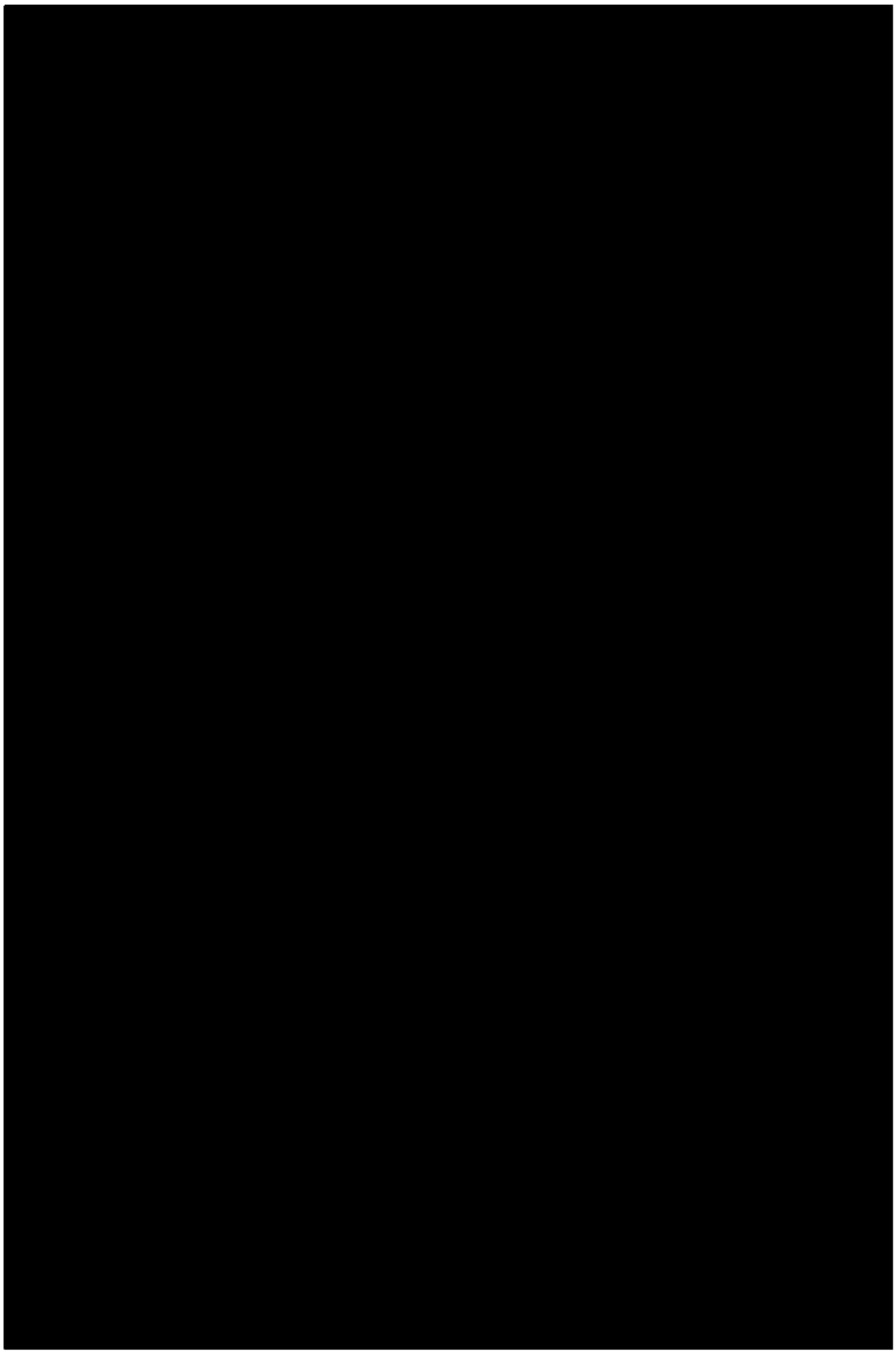
Q. If you would look now at Exhibit 20,

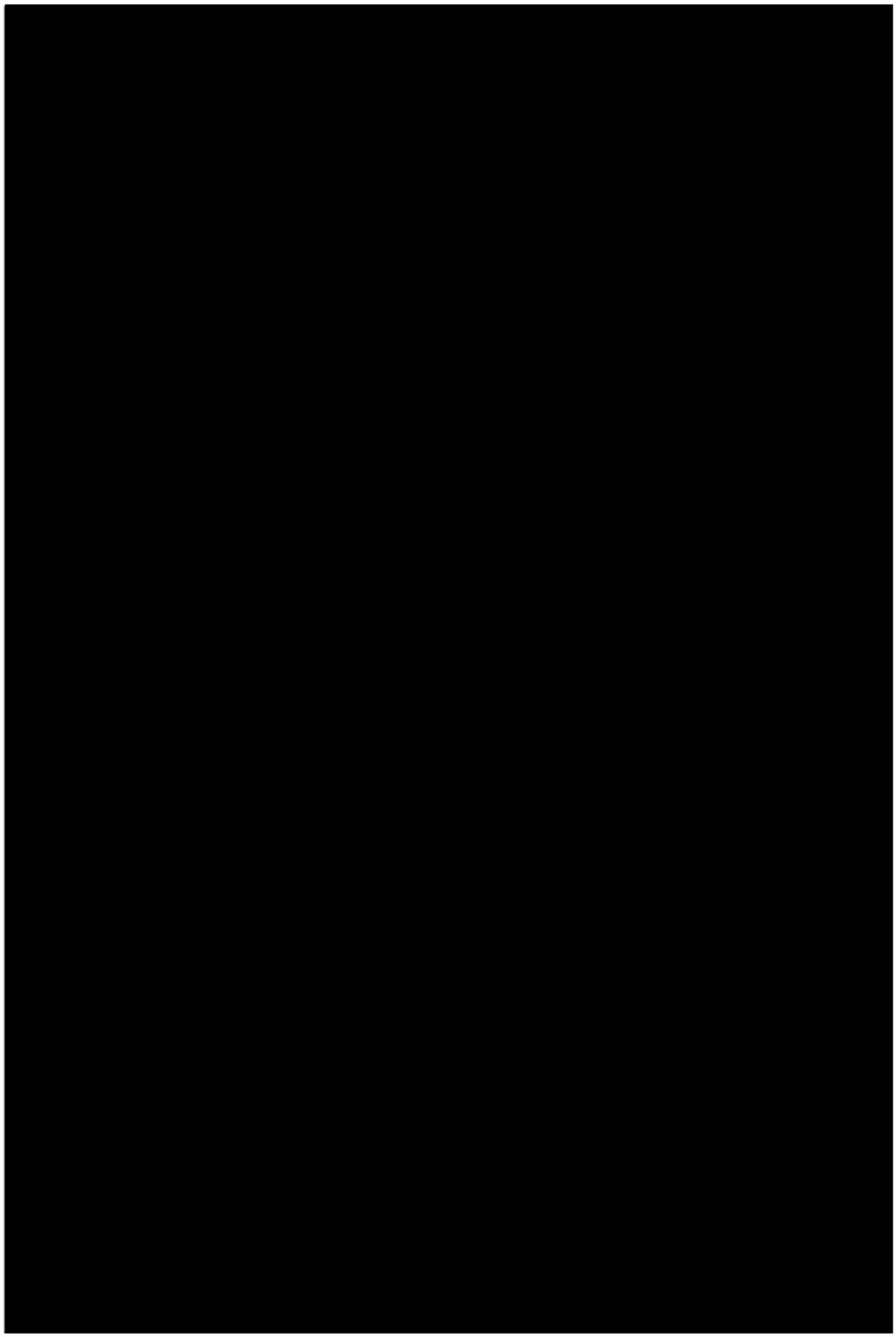


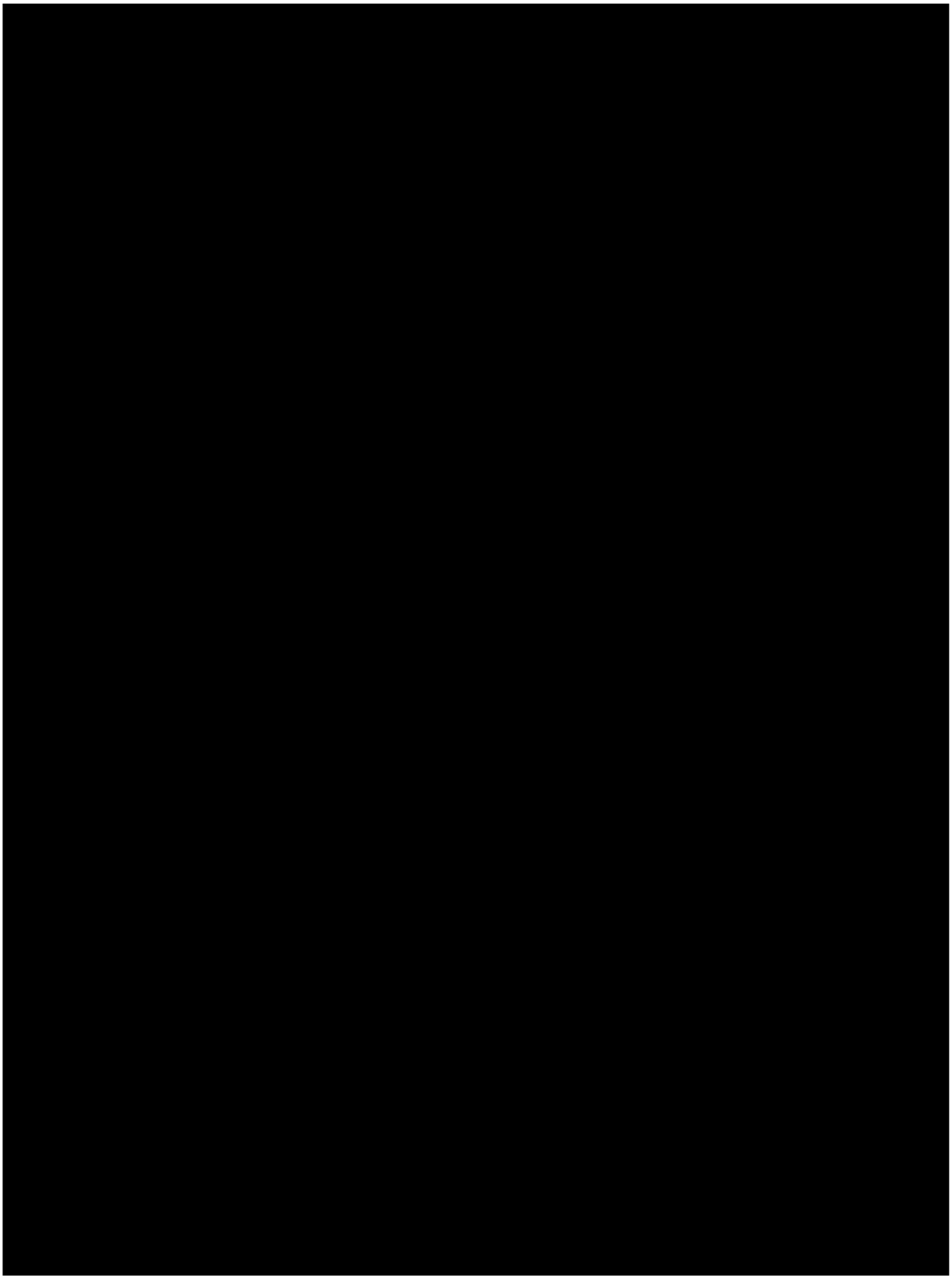






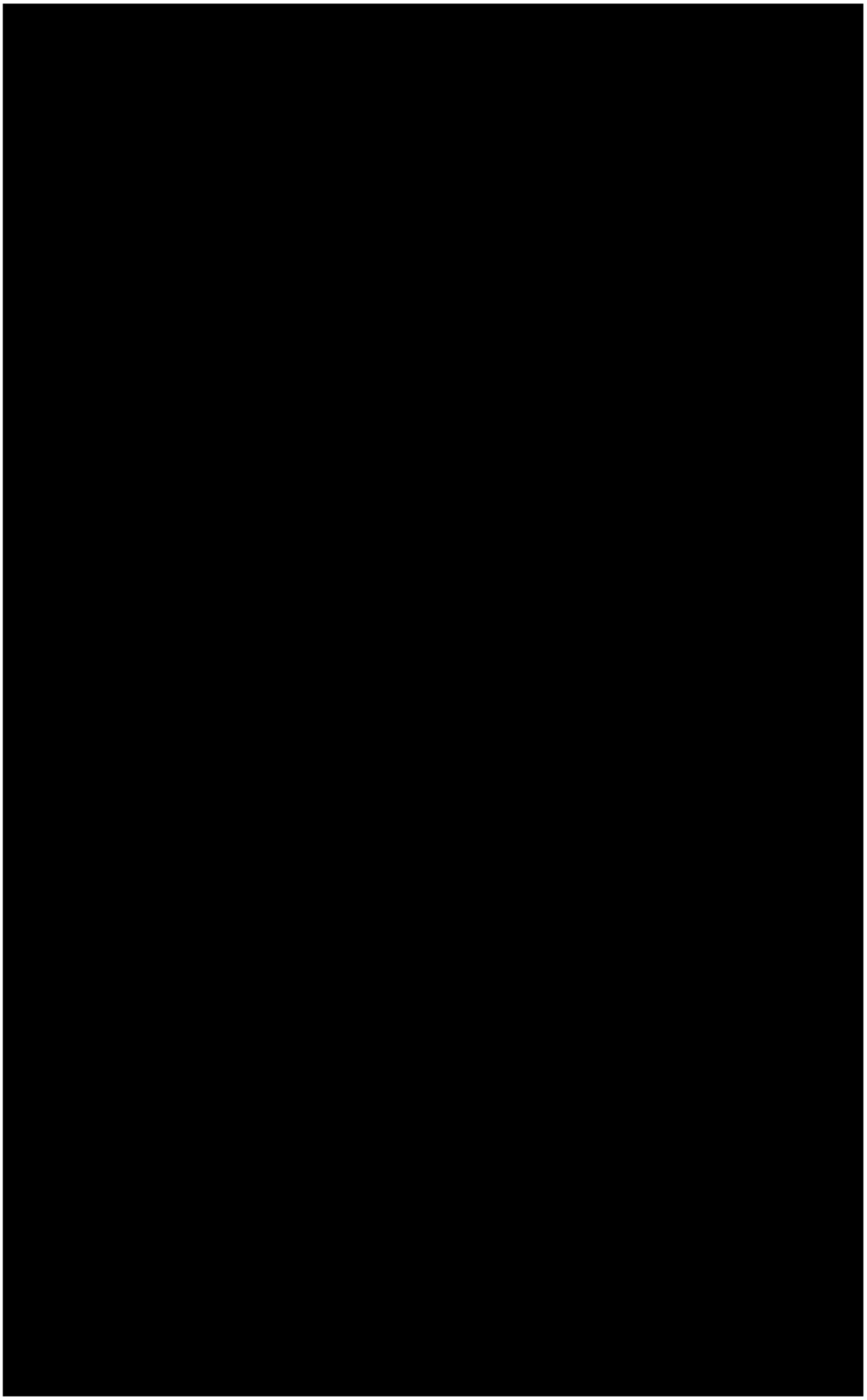






Q. Looking at Exhibit 16, again you have a couple of paragraphs in Exhibit 16 that reference this Delta Cargo Building [redacted] And they appear on the first page carrying over to the second page; is that correct?

A. Yes.



Q. What opinions do you anticipate giving at trial with respect to this high-density fireproofing area in Building [redacted] and if they would be the same

as the opinions that you described with respect to JFK 53 and Newark Terminal A, you could answer that way is fine?

[redacted]

Do you anticipate giving any other opinions with respect to any of these three buildings, [redacted] JFK Building 53, and JFK Building [redacted]?

A. I really can't answer that without knowing what I am going to be asked.

Q. But as you sit here today, do you anticipate other opinions with respect to those buildings?

A. I will certainly have other opinions regarding the rest of the Delta Cargo Building that we have not discussed. But, as far as my general

opinions regarding the high-density material in that building, and the [redacted] and --

Q. Delta Terminal?

A. And the Delta Terminal, I don't have other opinions that come to mind.

[redacted]

Q. If I could go back to Delta Terminal 53. Is it your opinion that there are areas in Delta Terminal Building 53 that do not have asbestos contamination as you have defined that term previously in this deposition?

A. There are some areas that have less contamination that I am aware of. The areas that have been abated, I am making an assumption that the asbestos contamination was taken out as part of the abatement. All the other areas it appeared to be very consistent and the sampling was done at random,

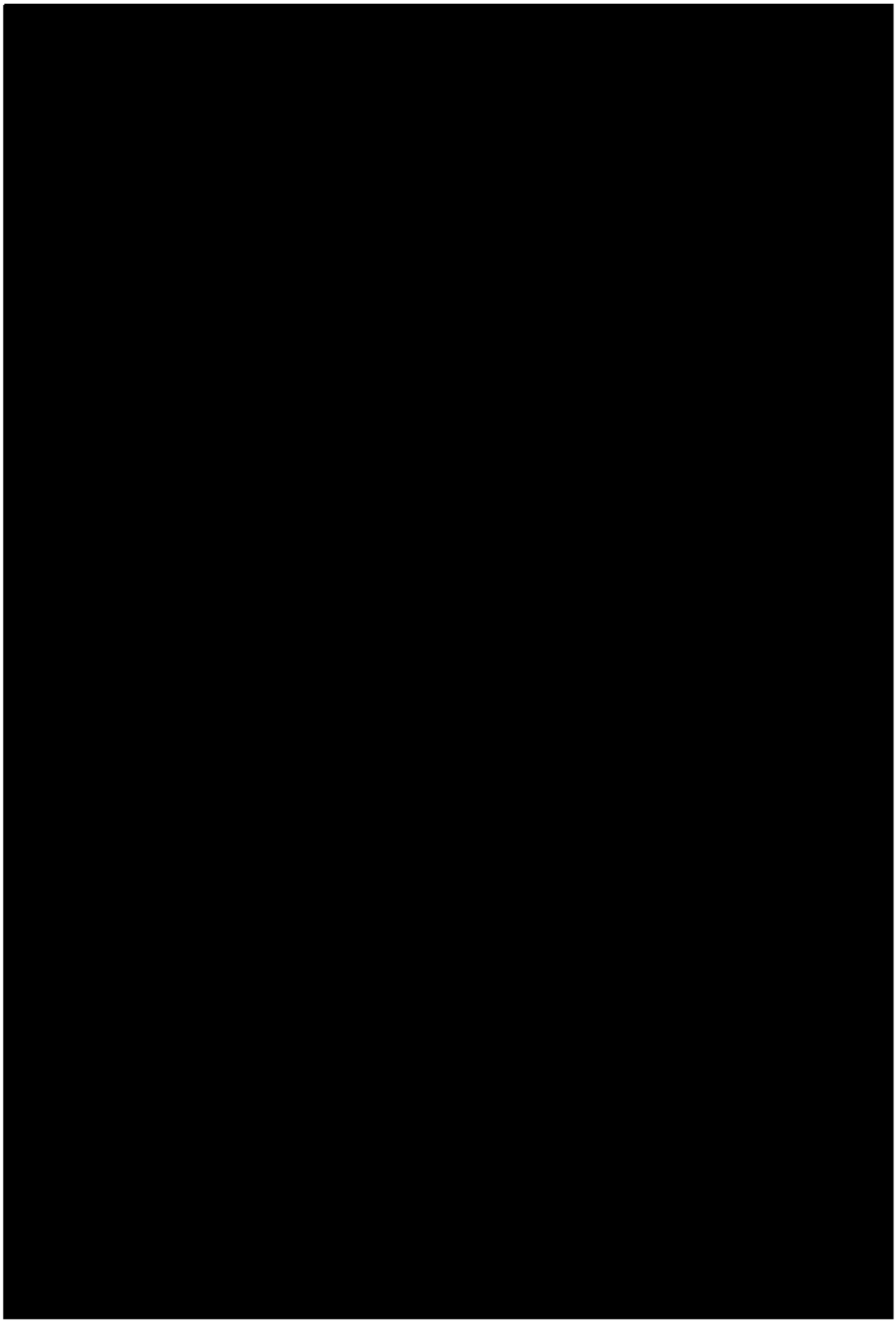
so I believe that to be representative of the other areas.

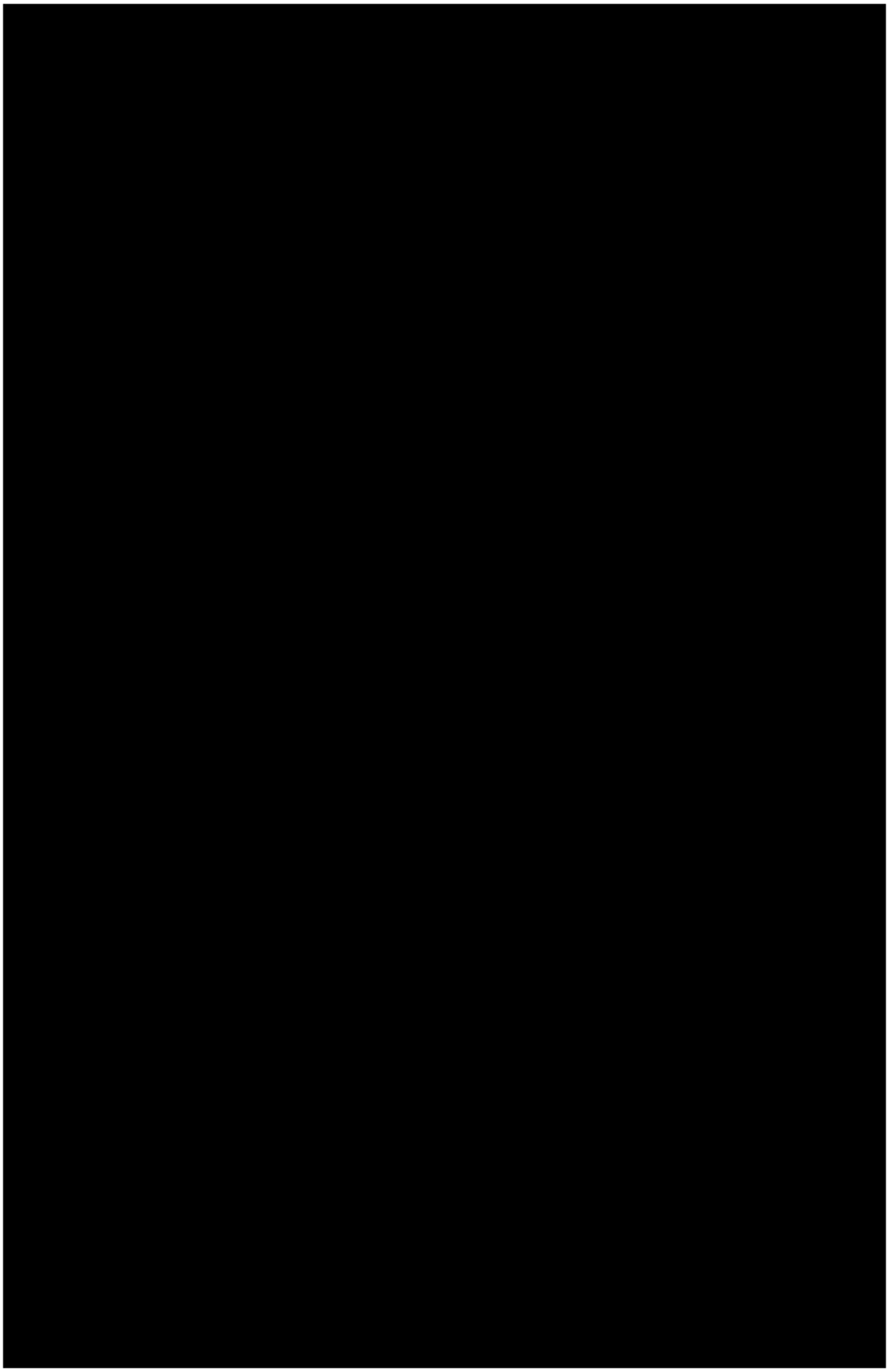
Q. So, it is your opinion that areas other

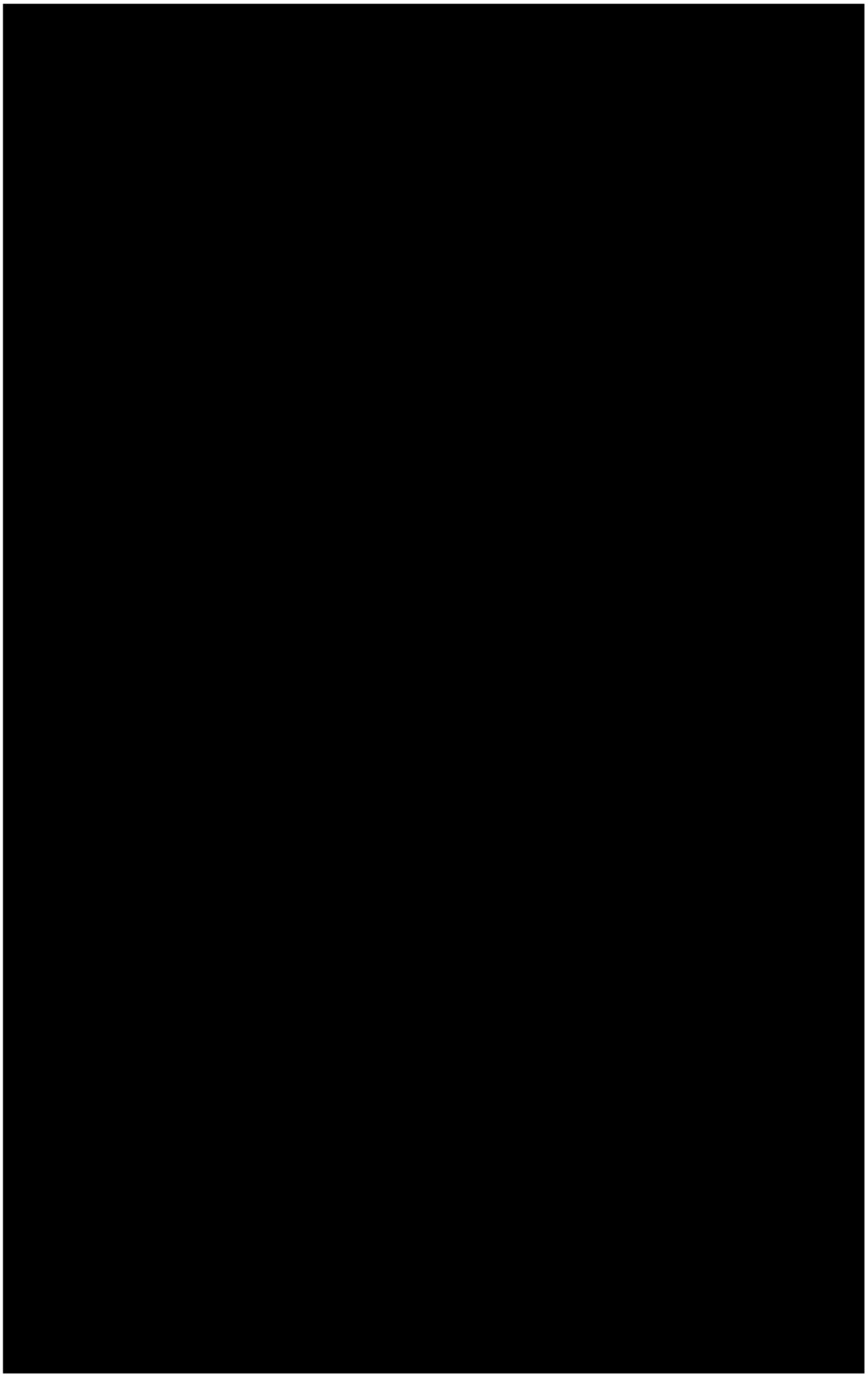
than those areas that have been abated have asbestos contamination as you defined that term in this deposition?

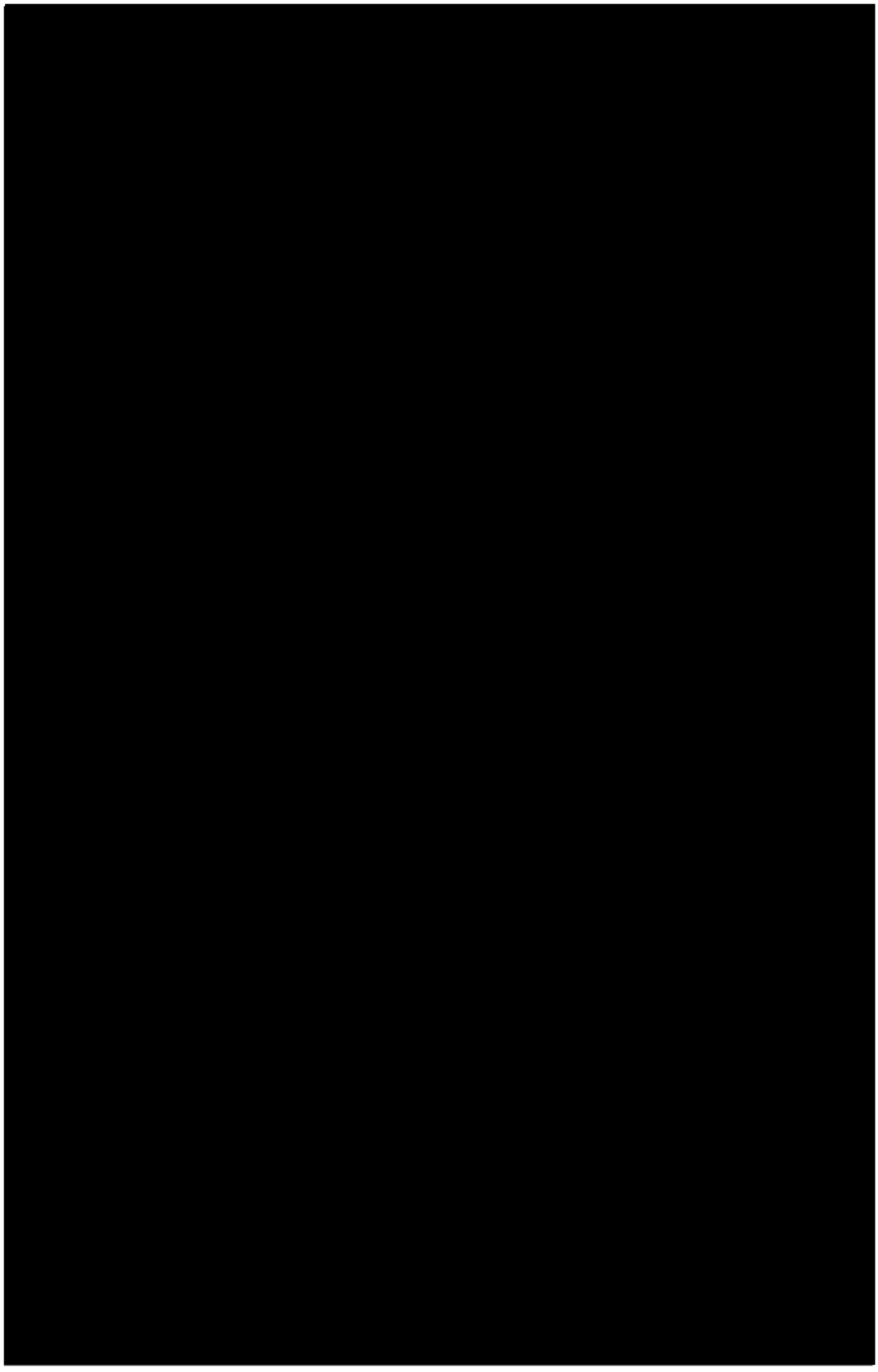
A. Yes.

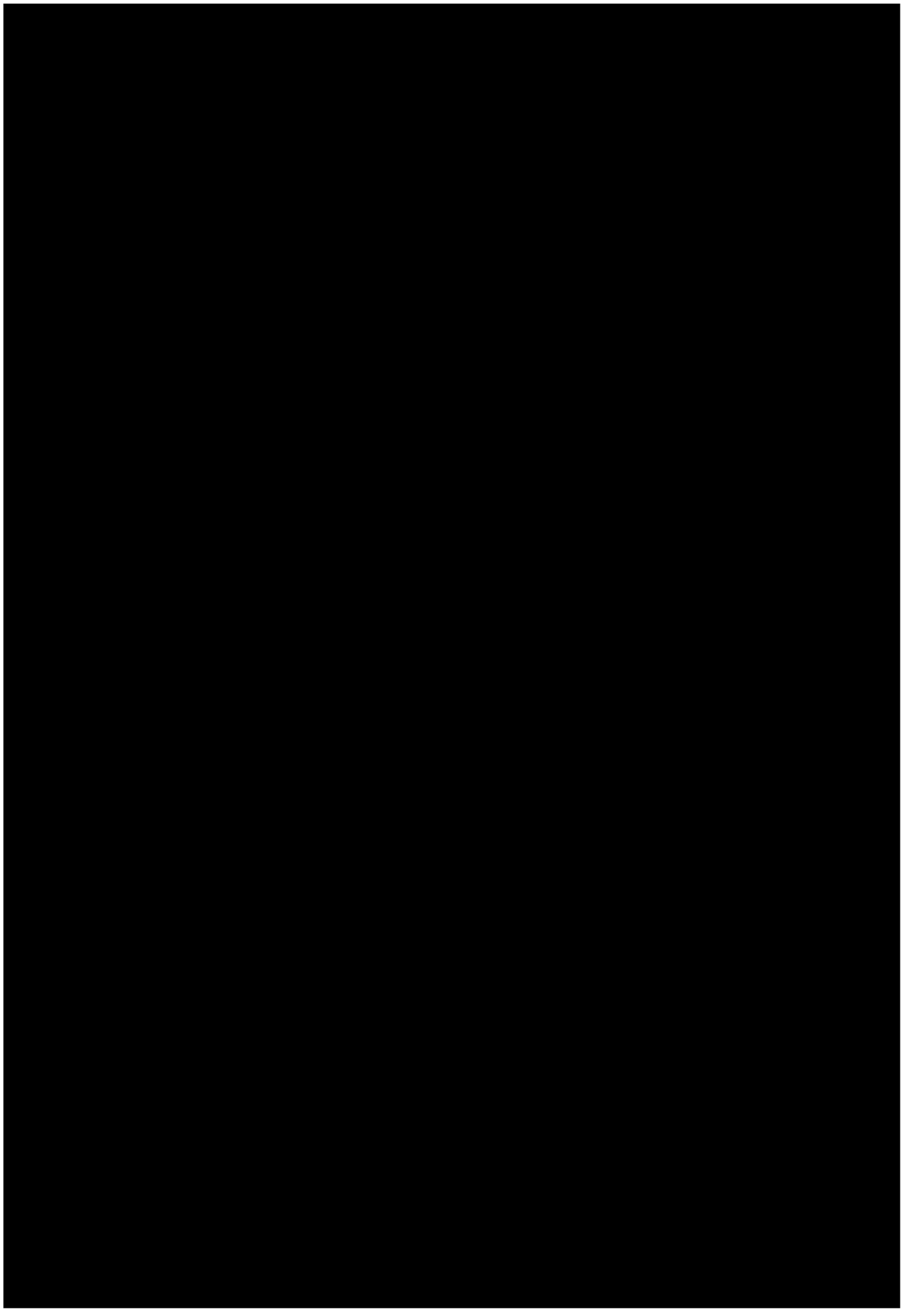
[redacted]

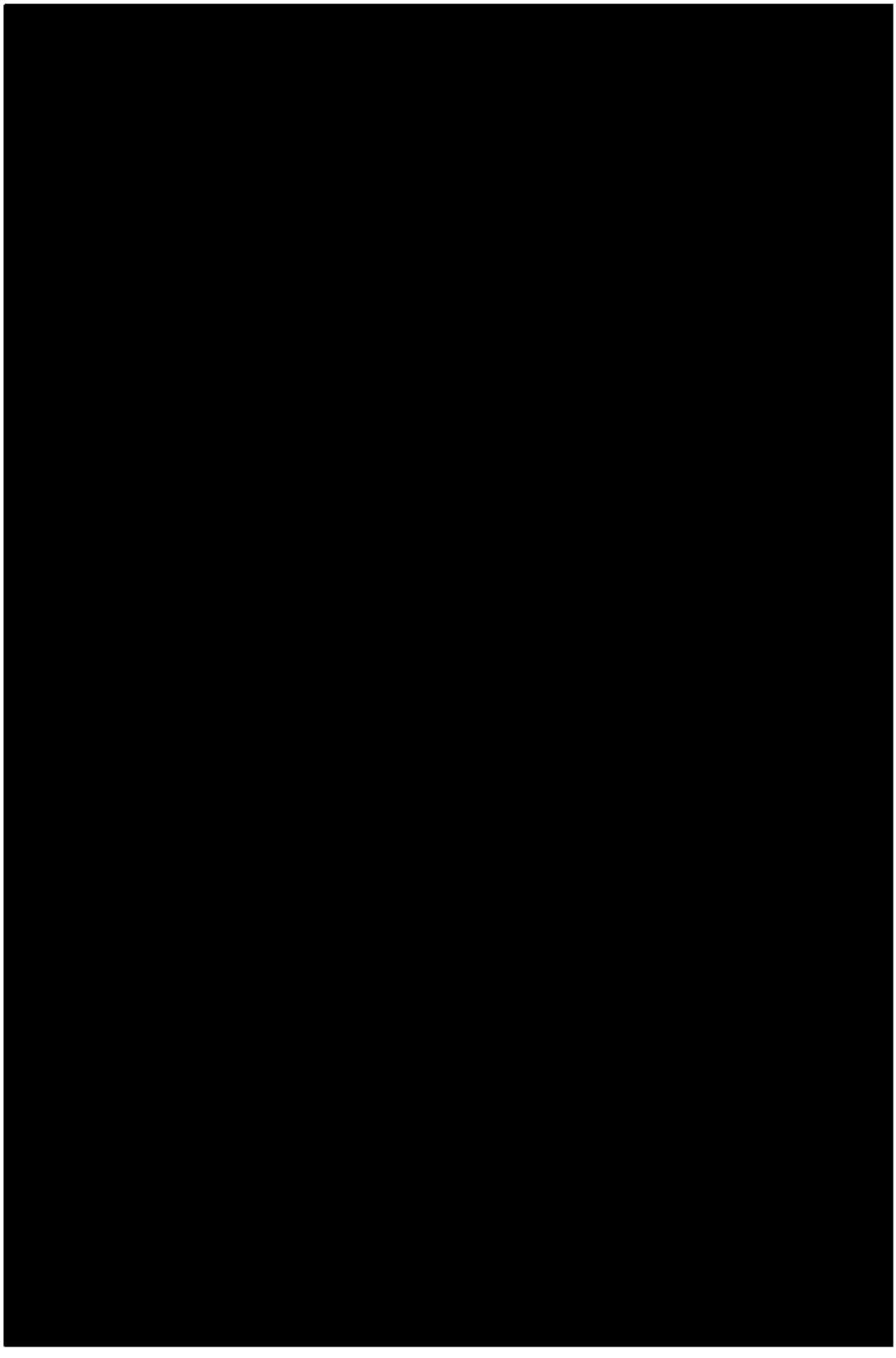


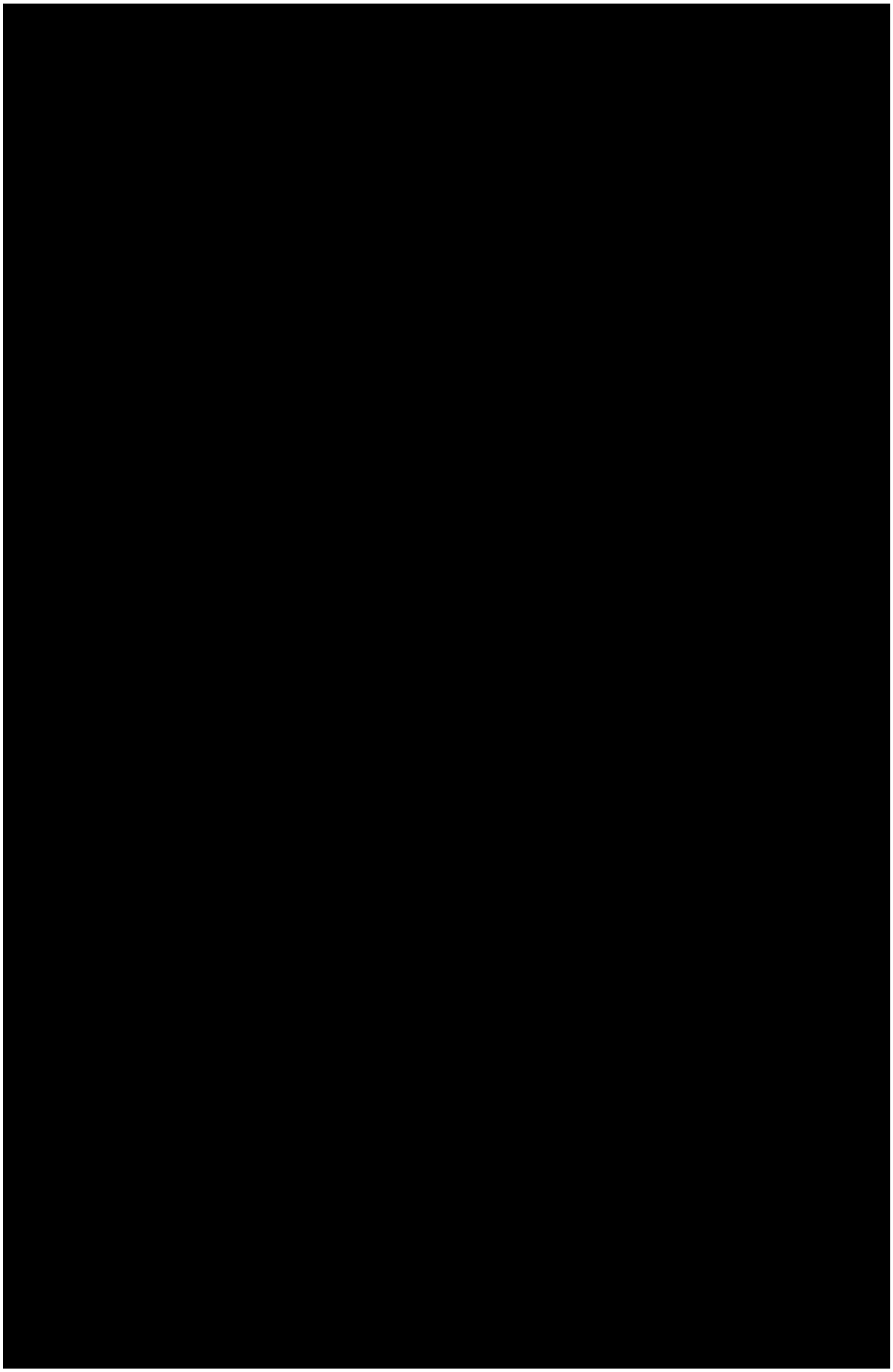


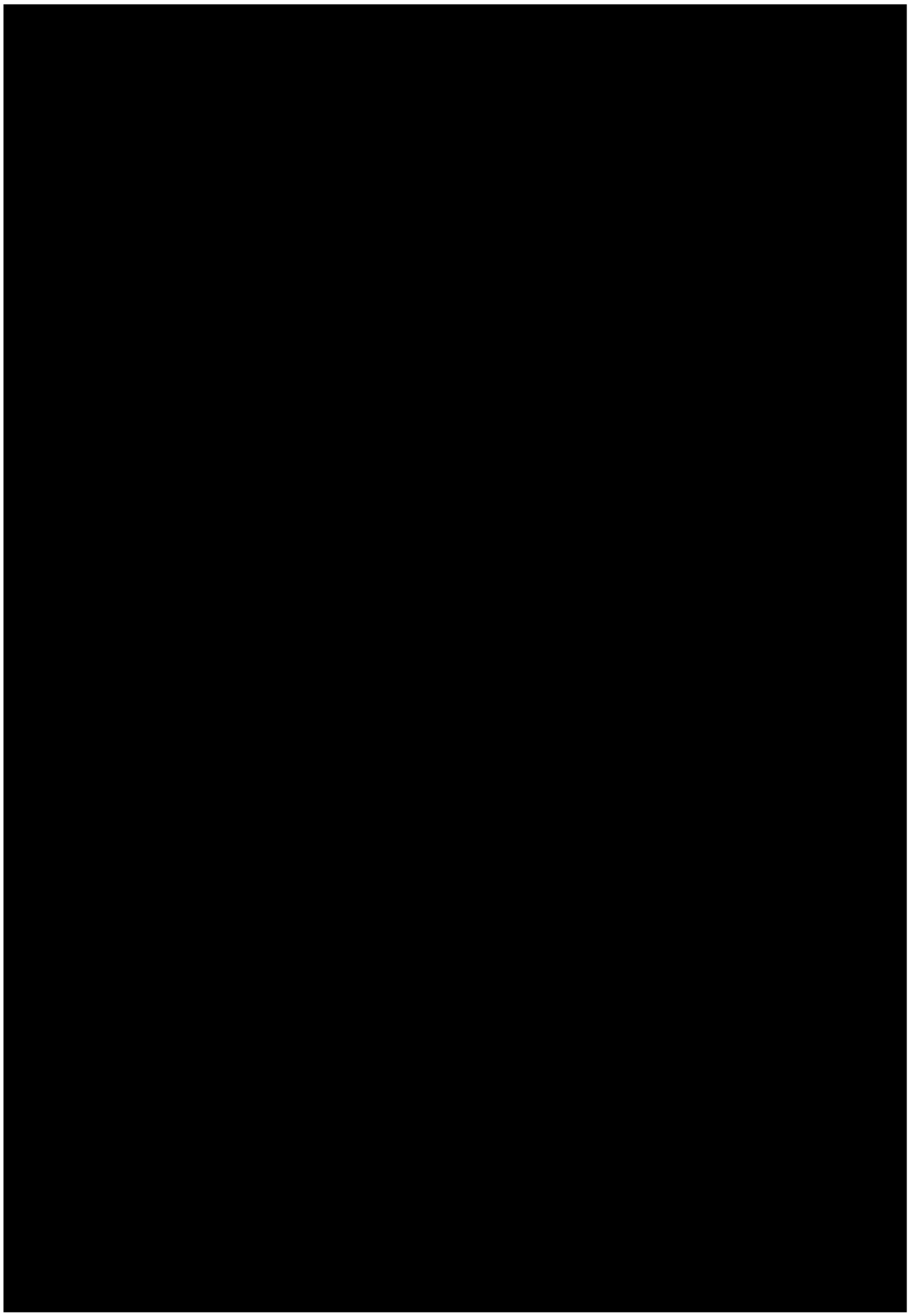


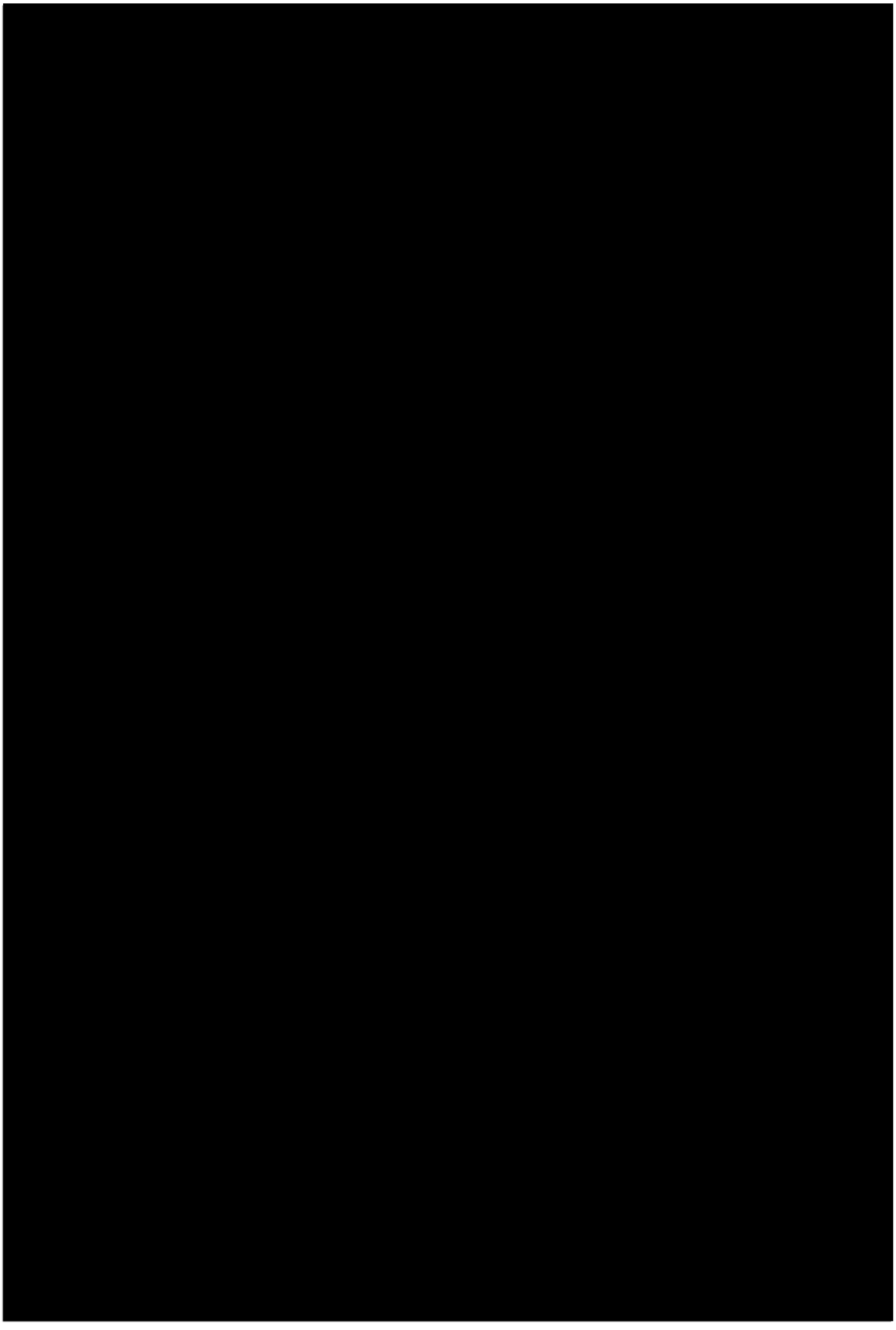


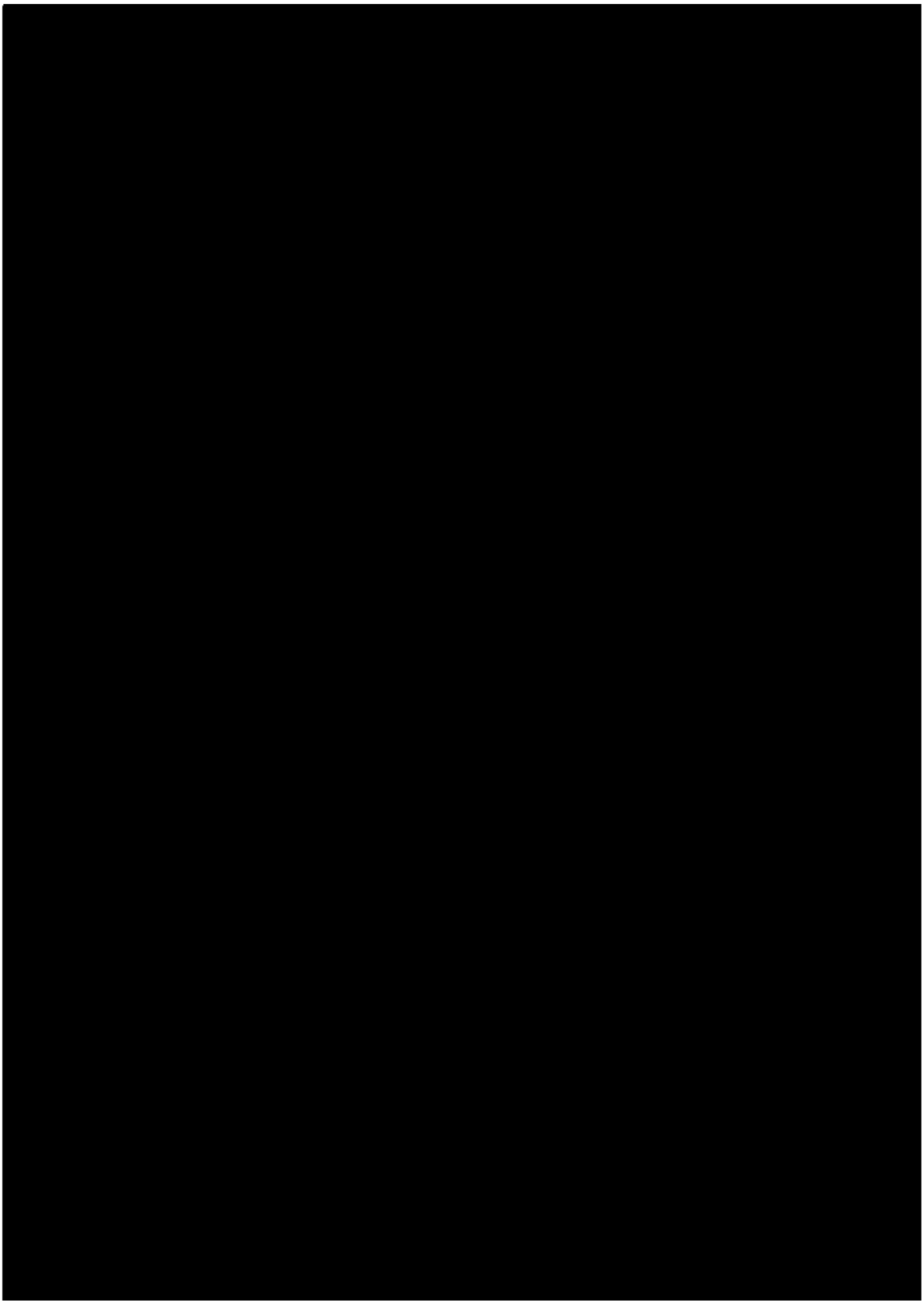


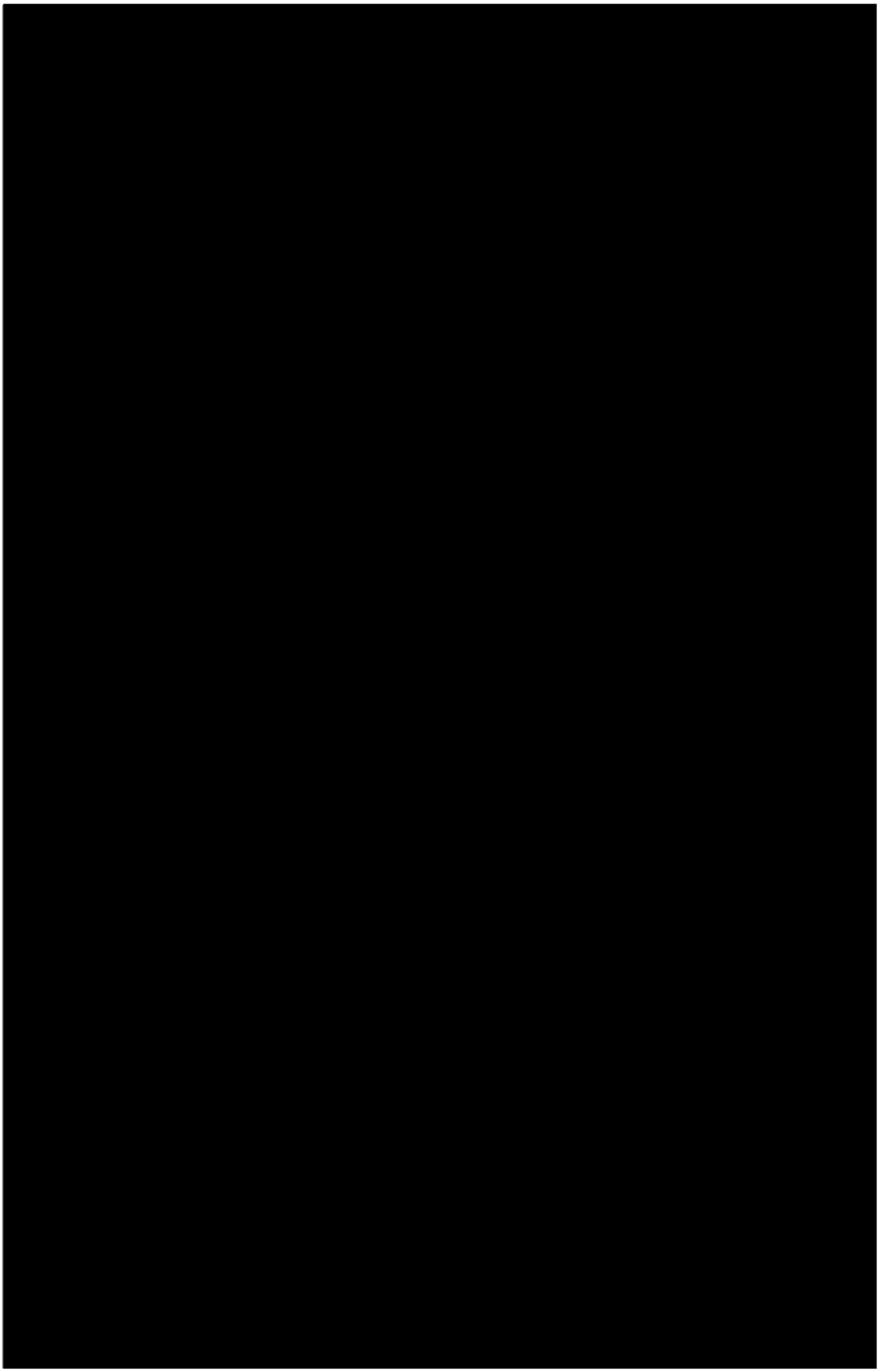


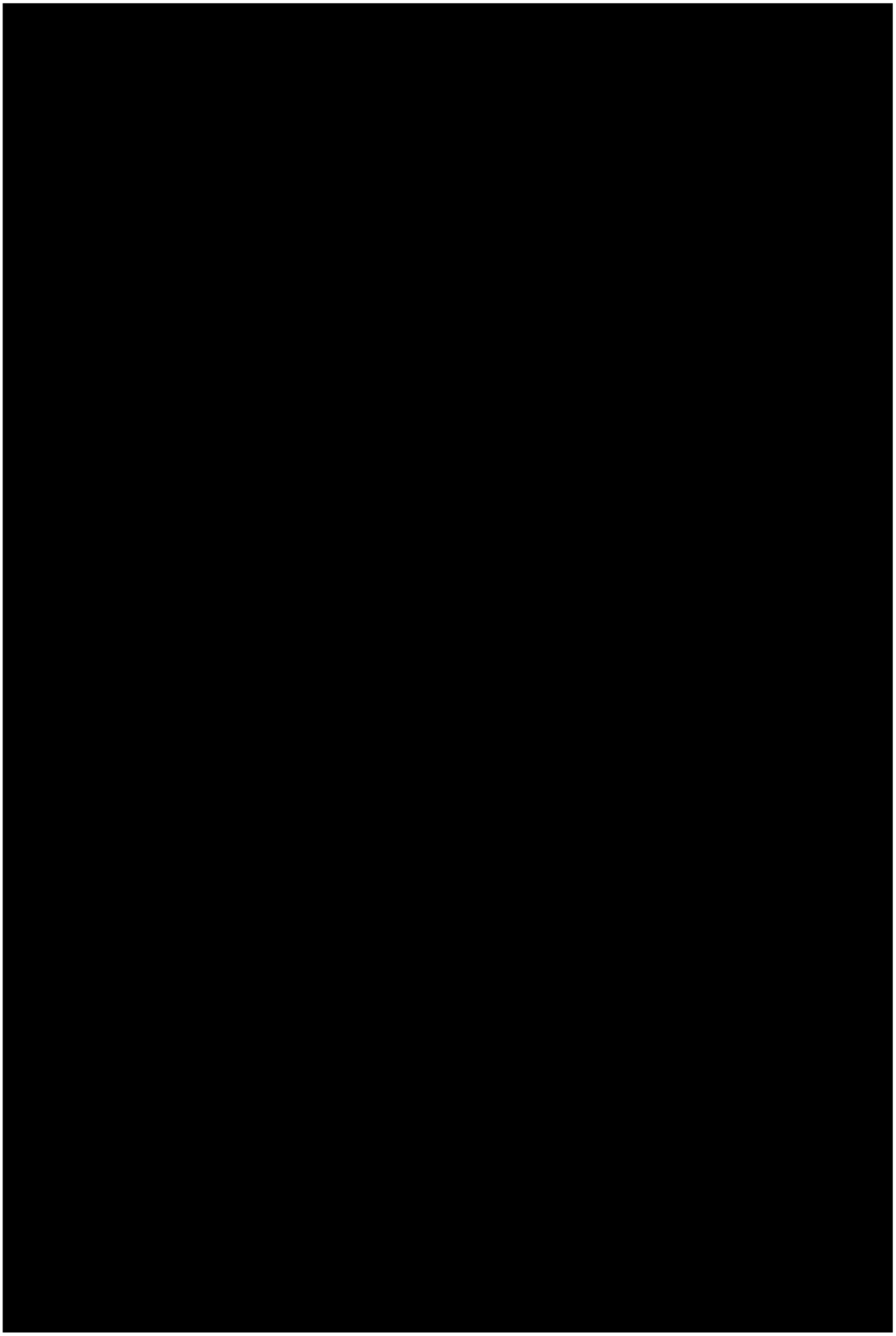


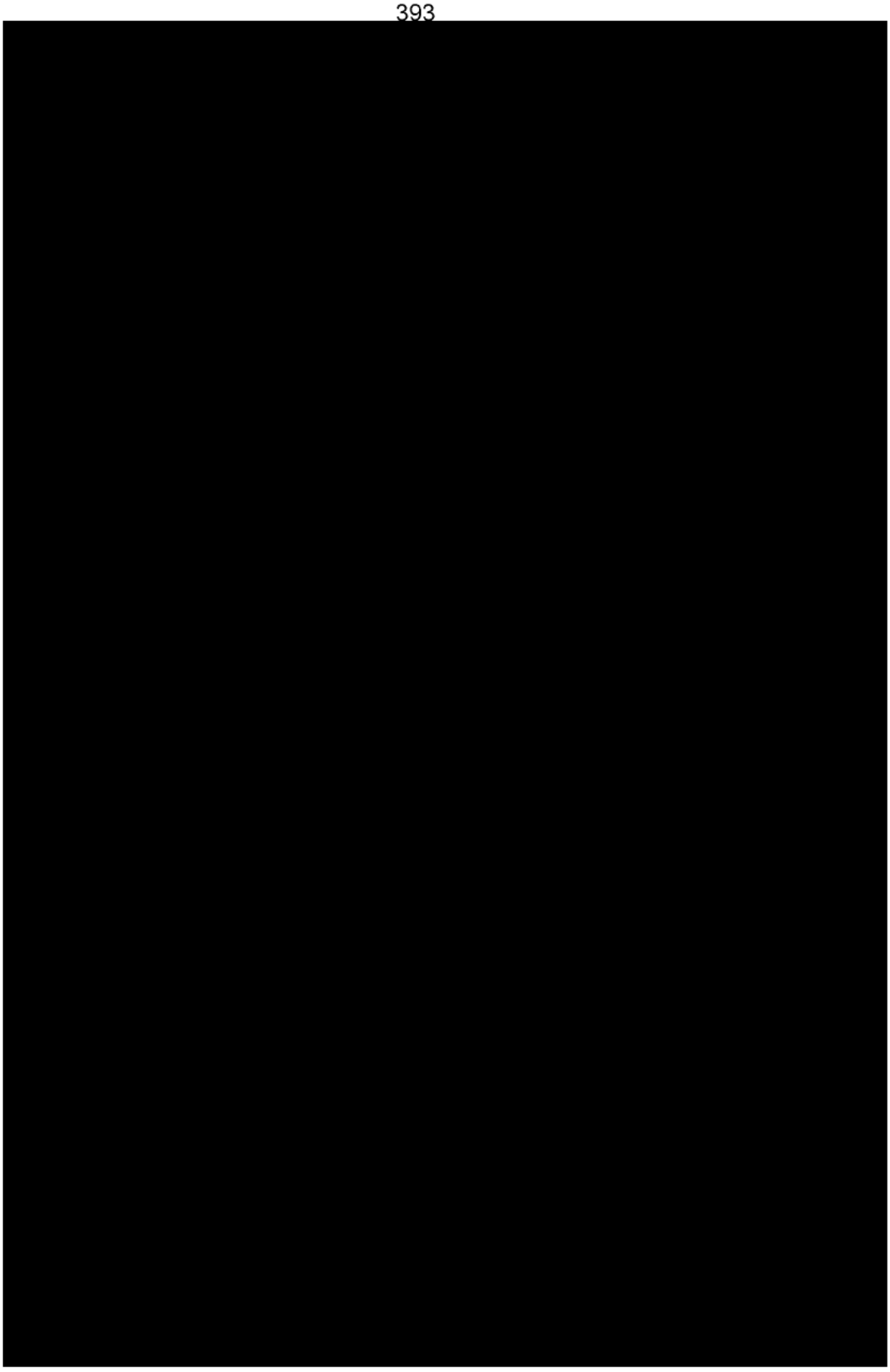


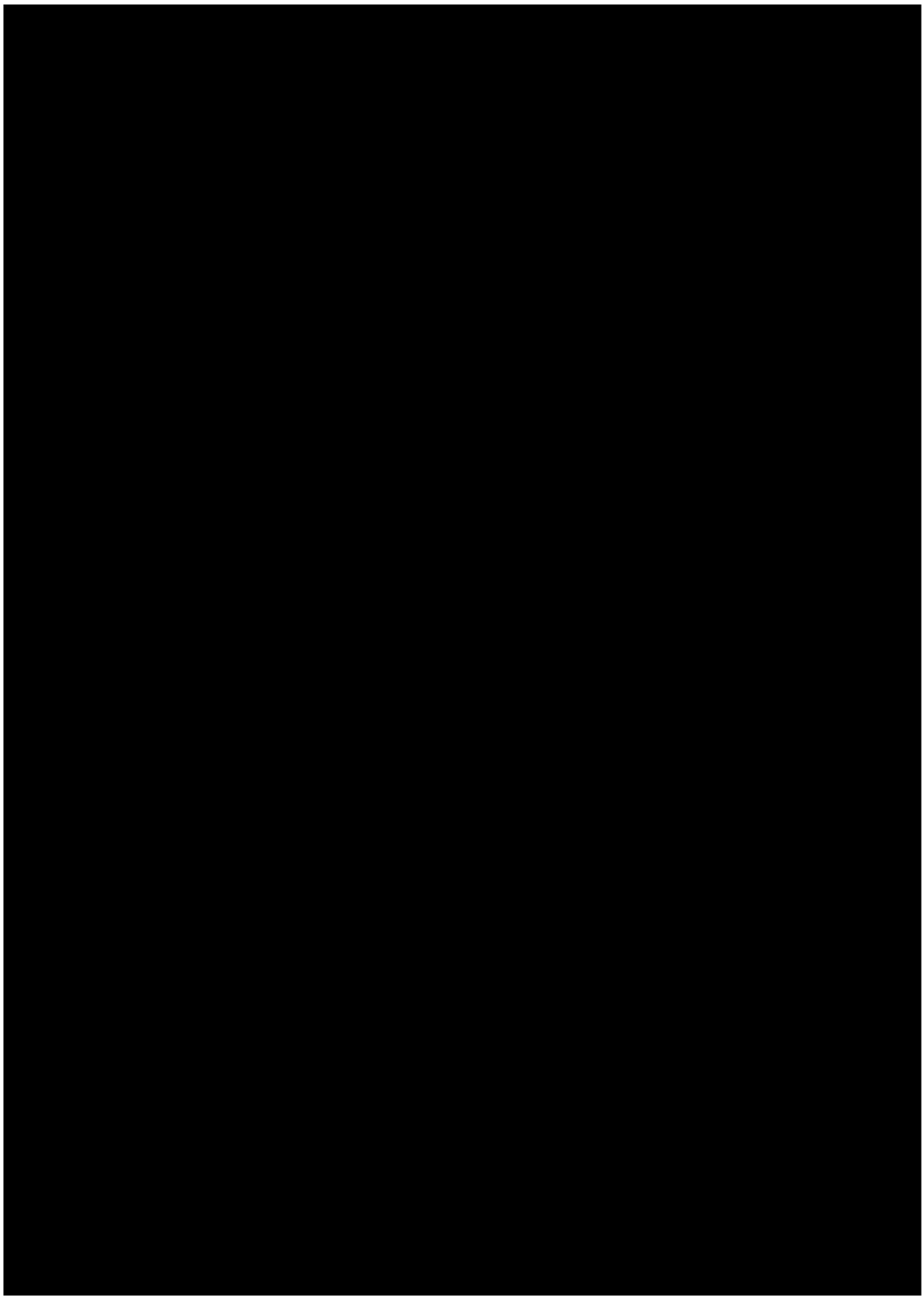


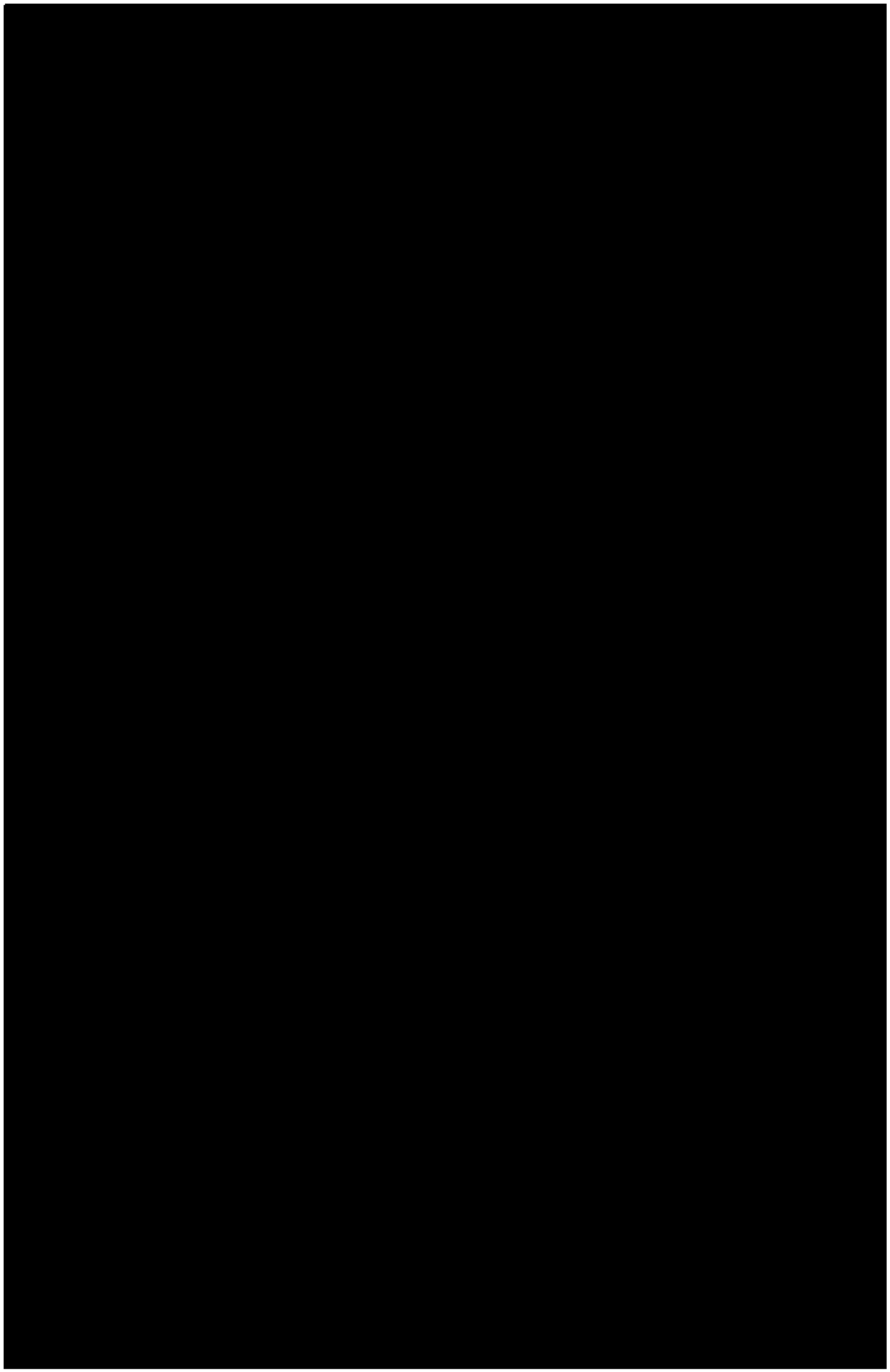


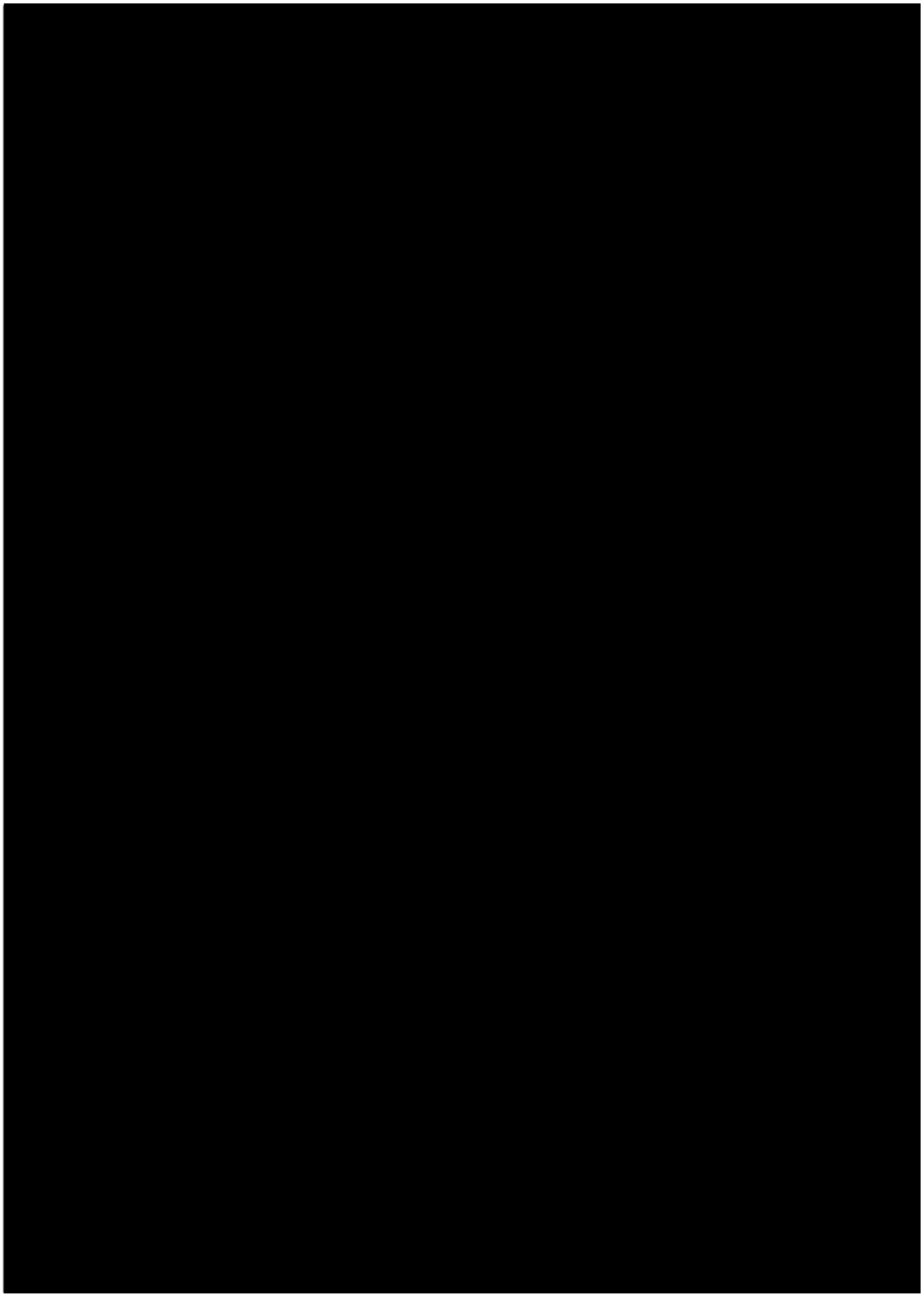


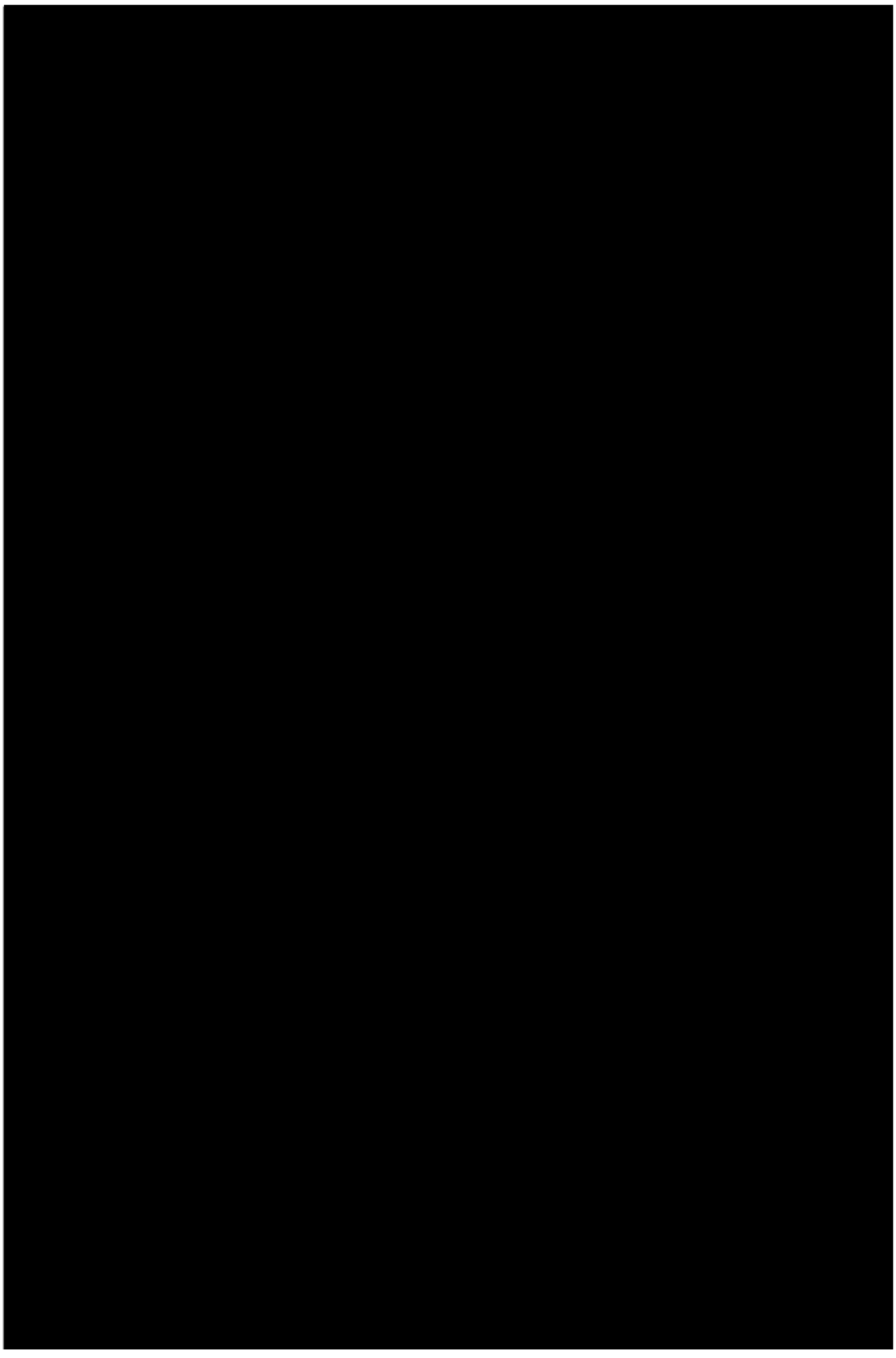


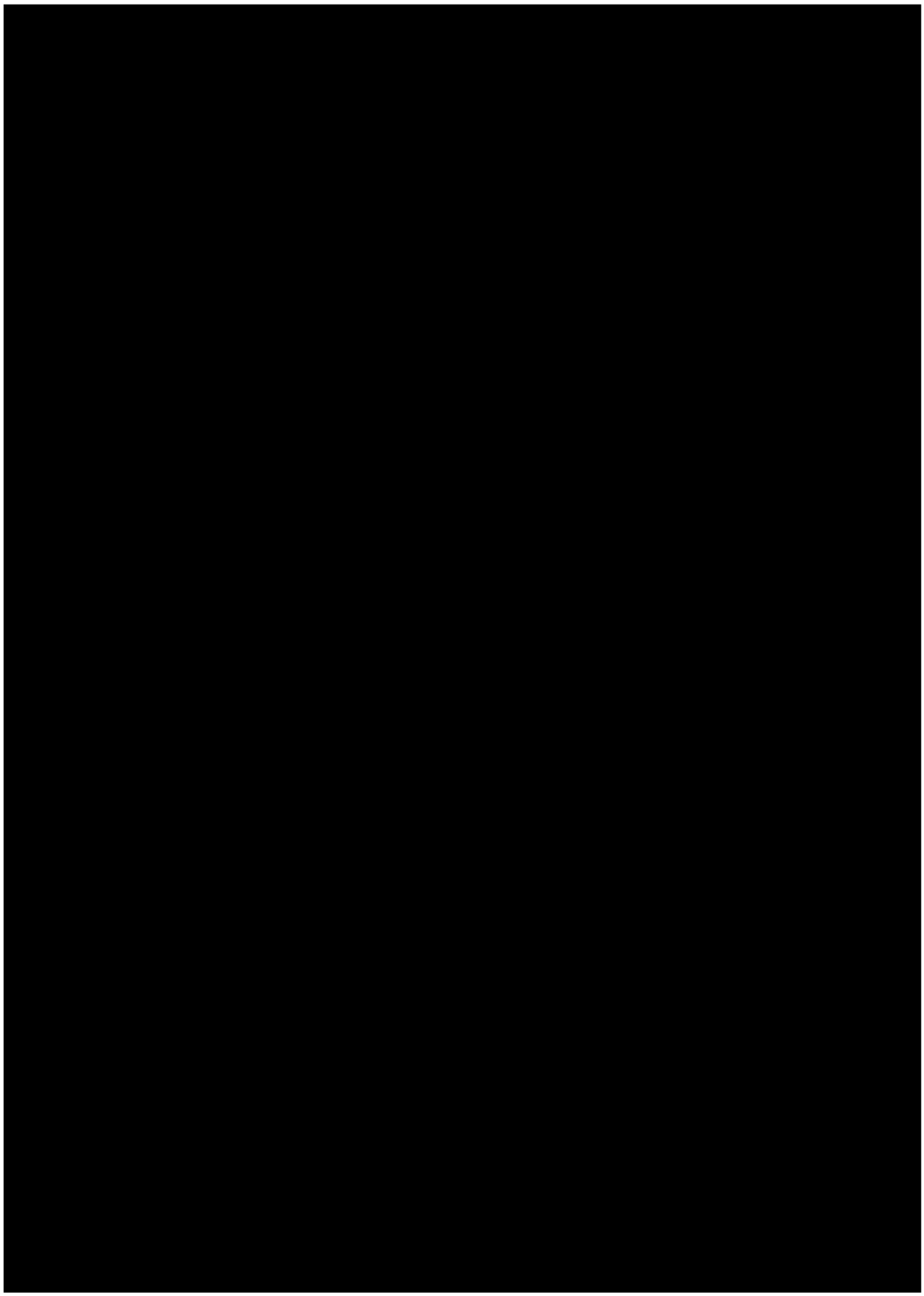


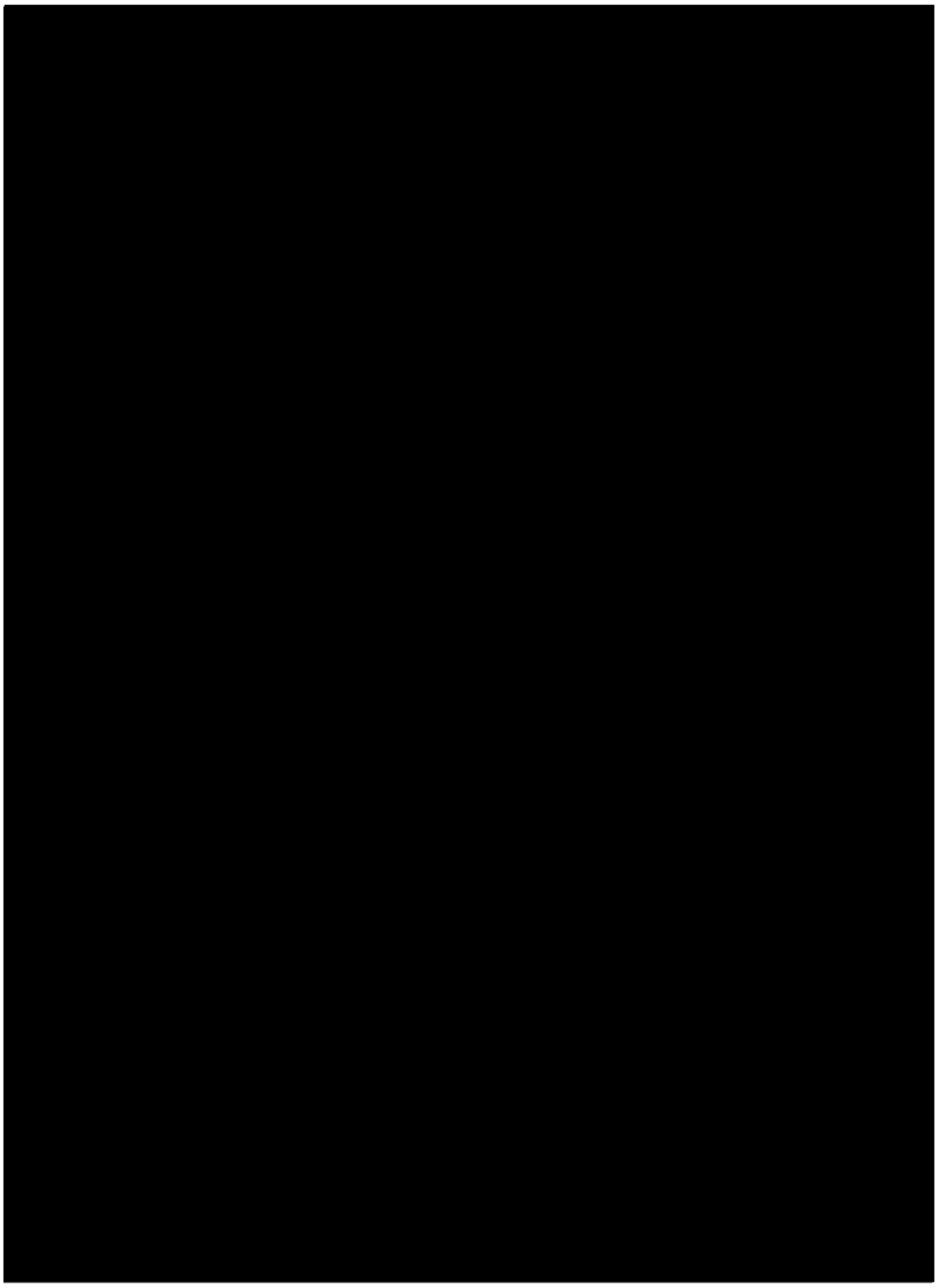


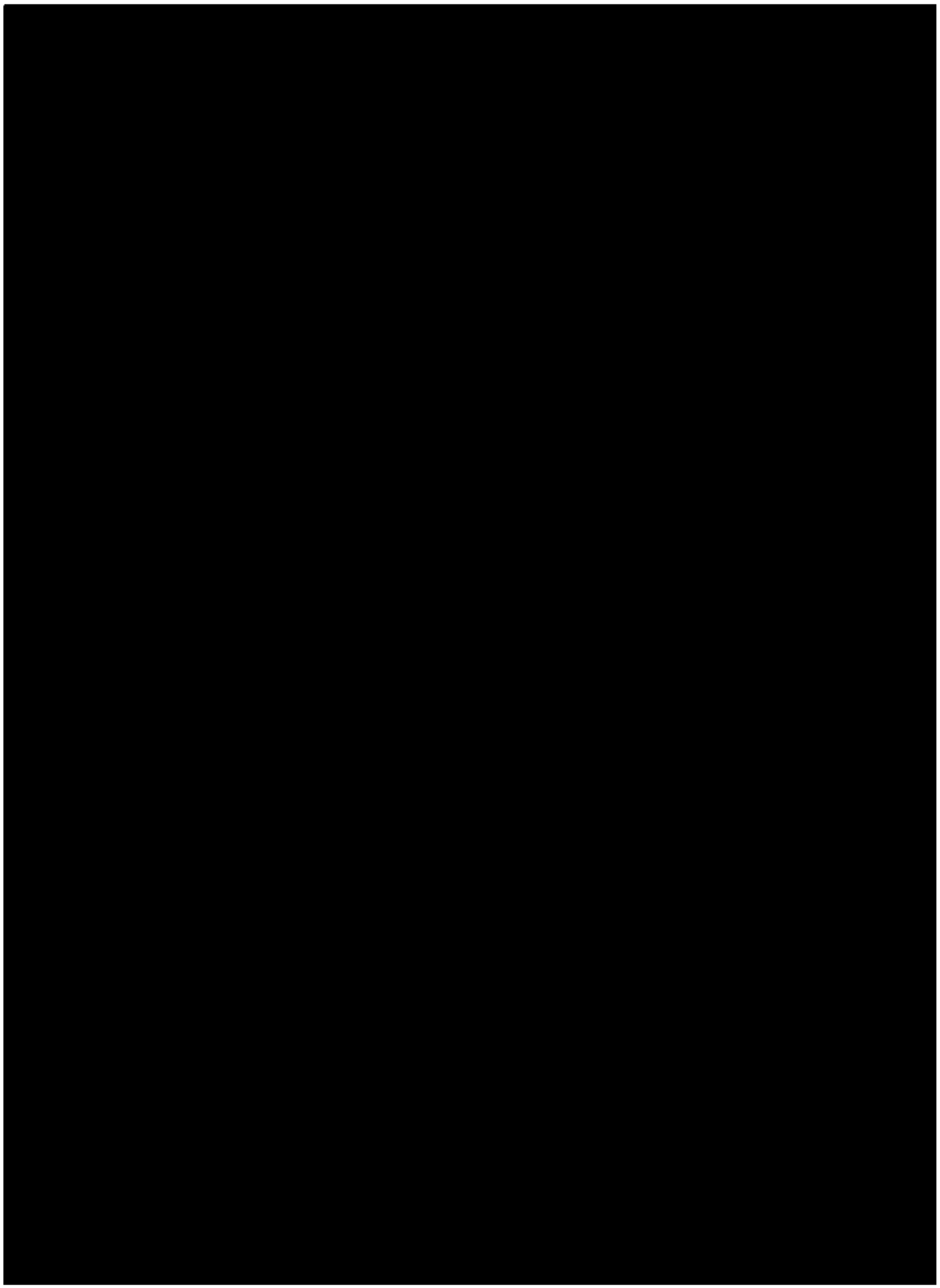


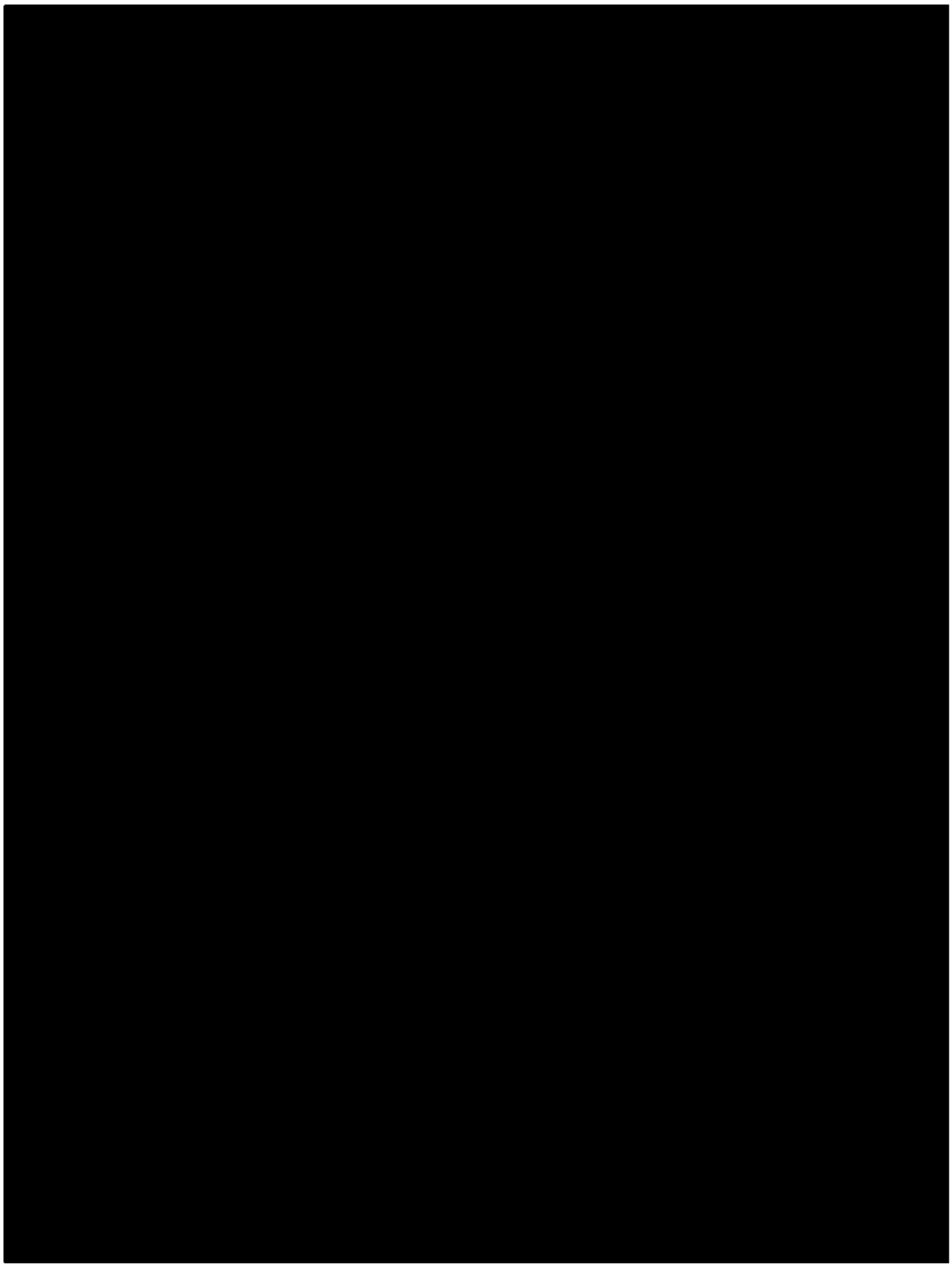


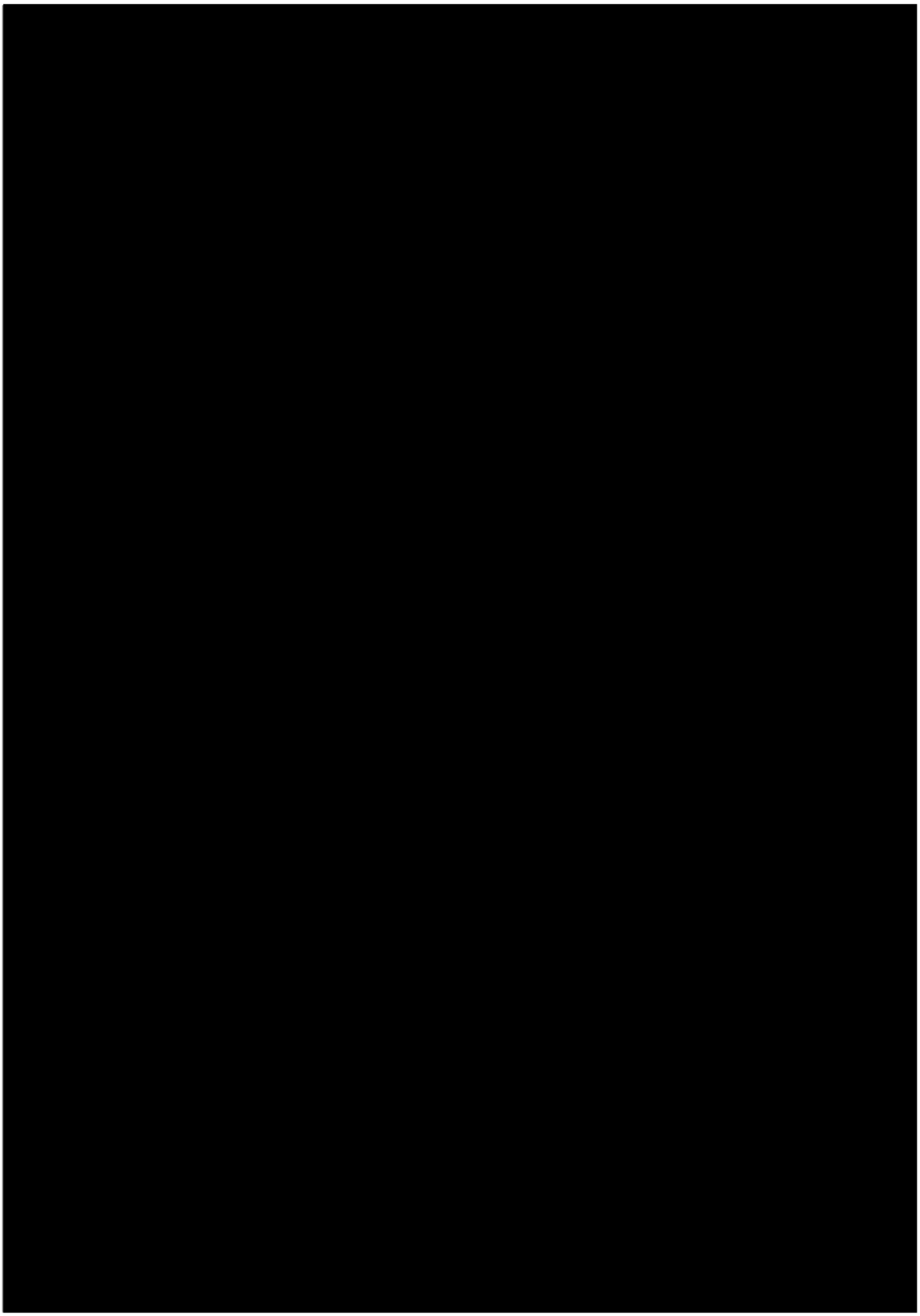


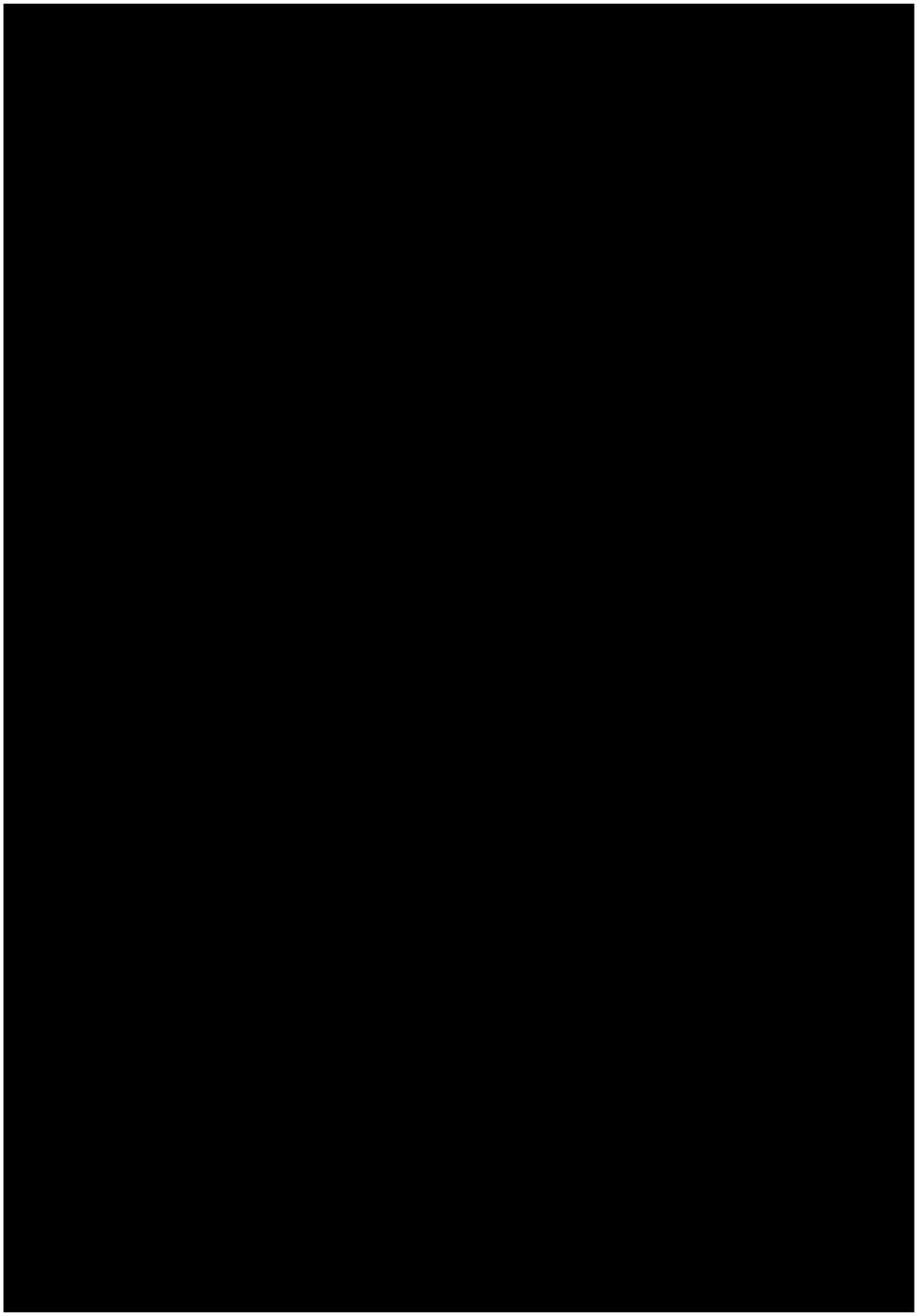


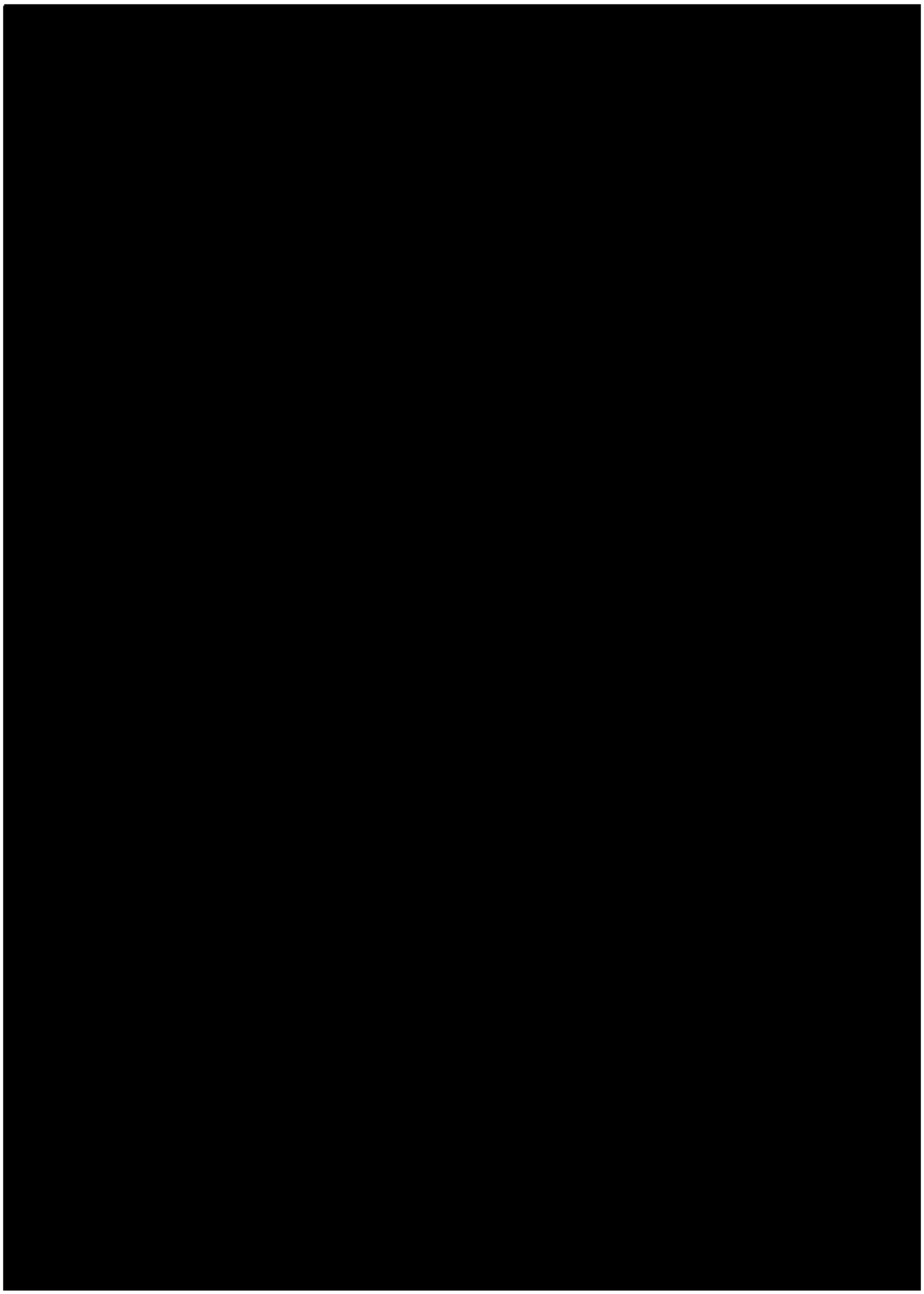


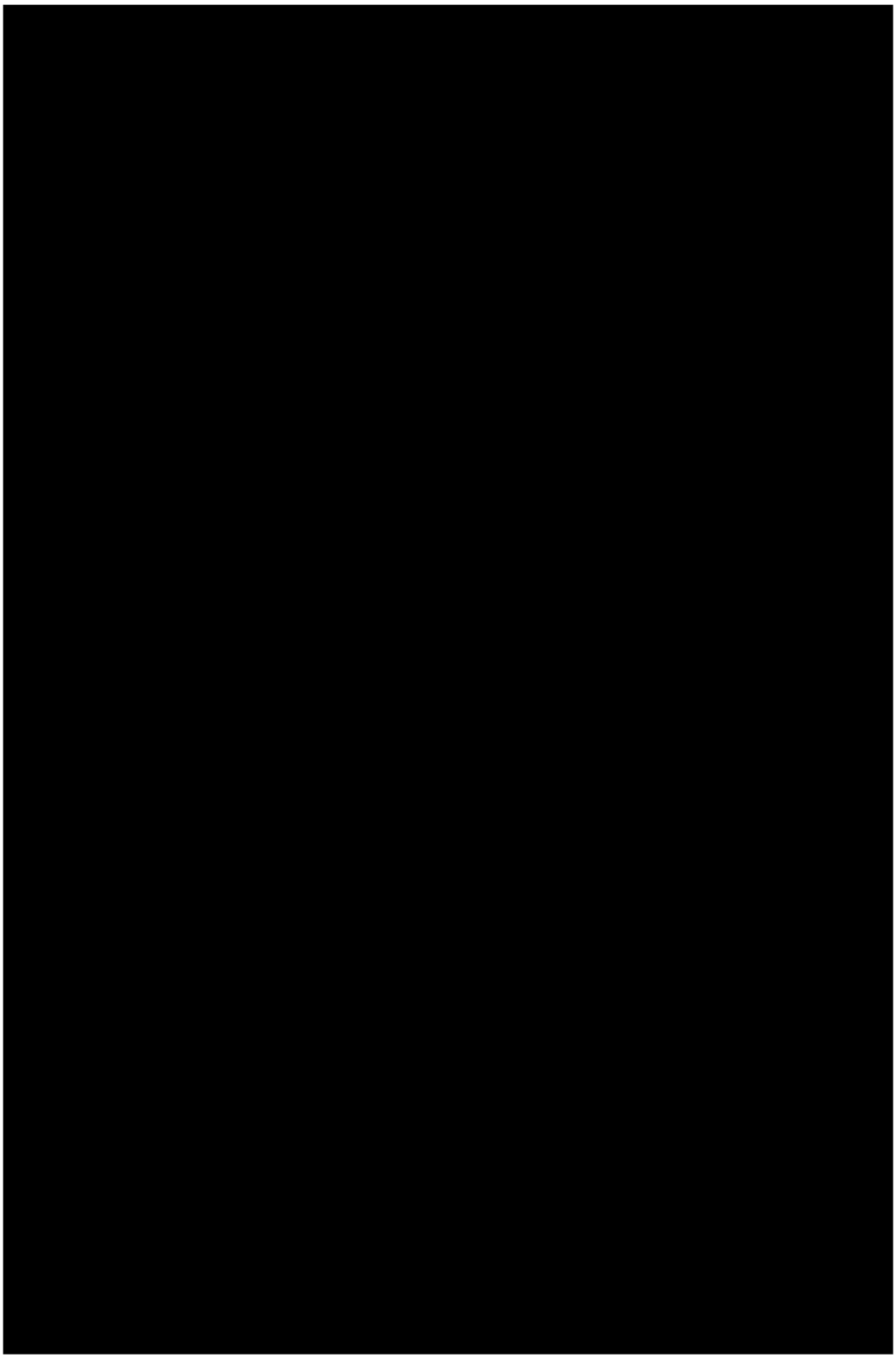


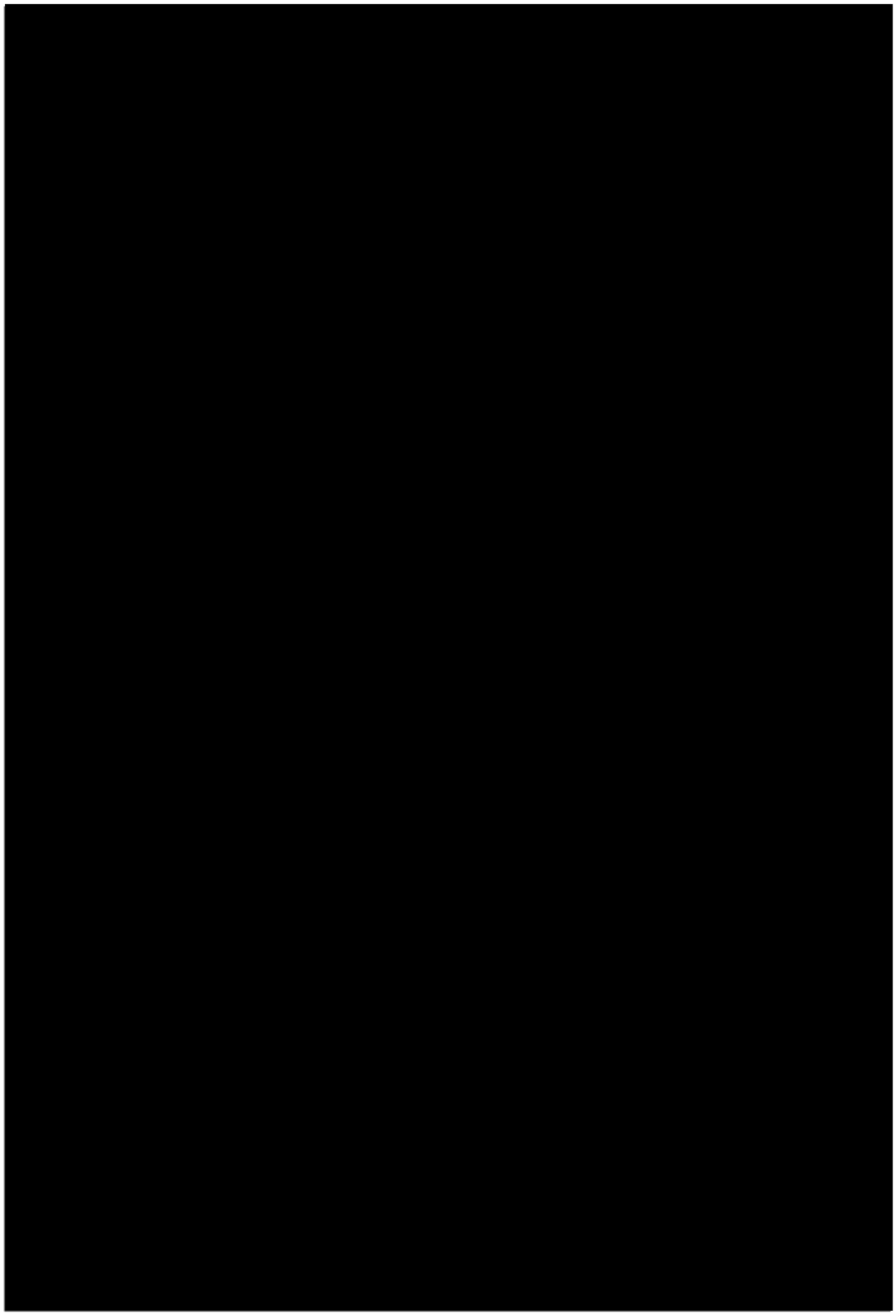


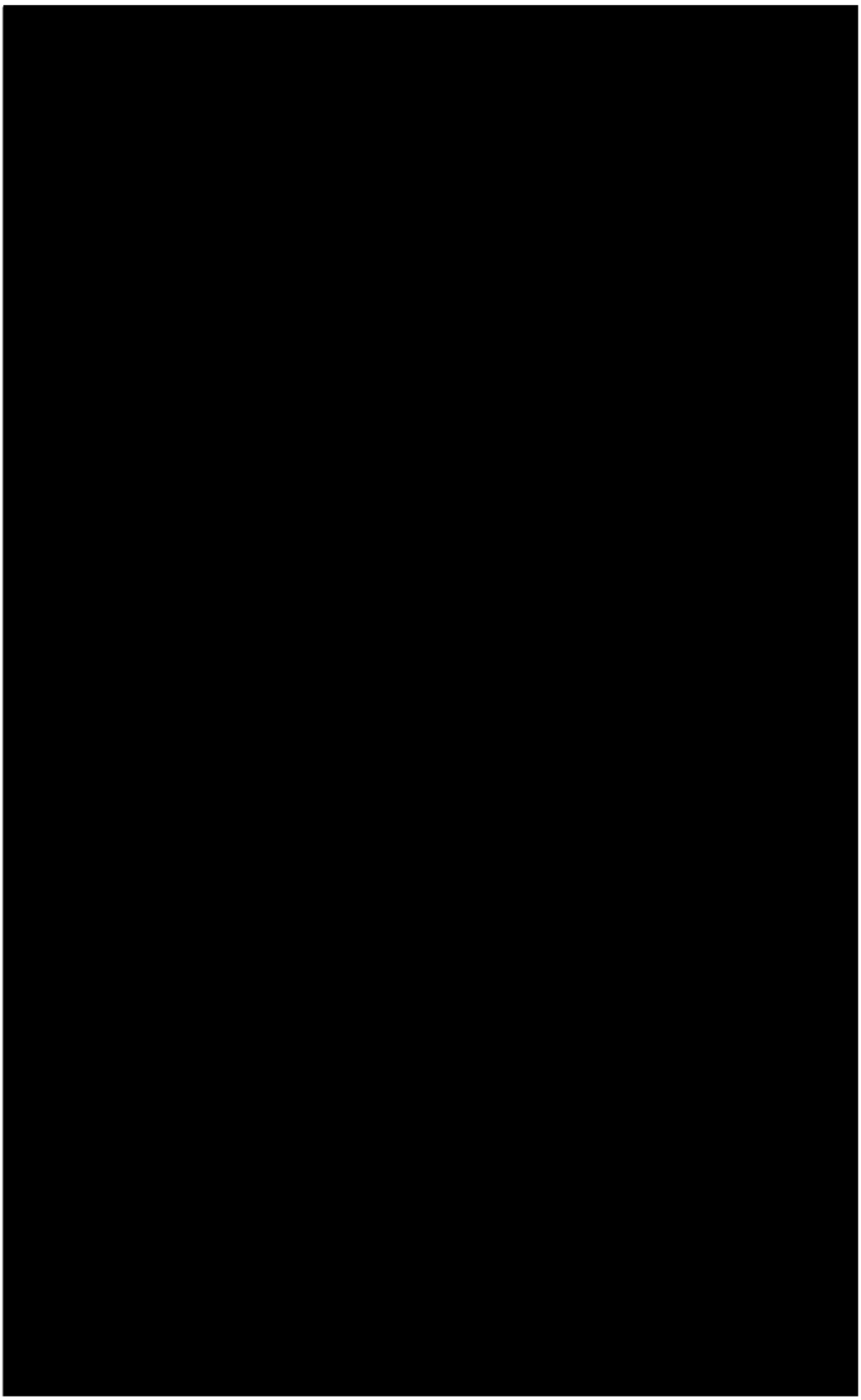


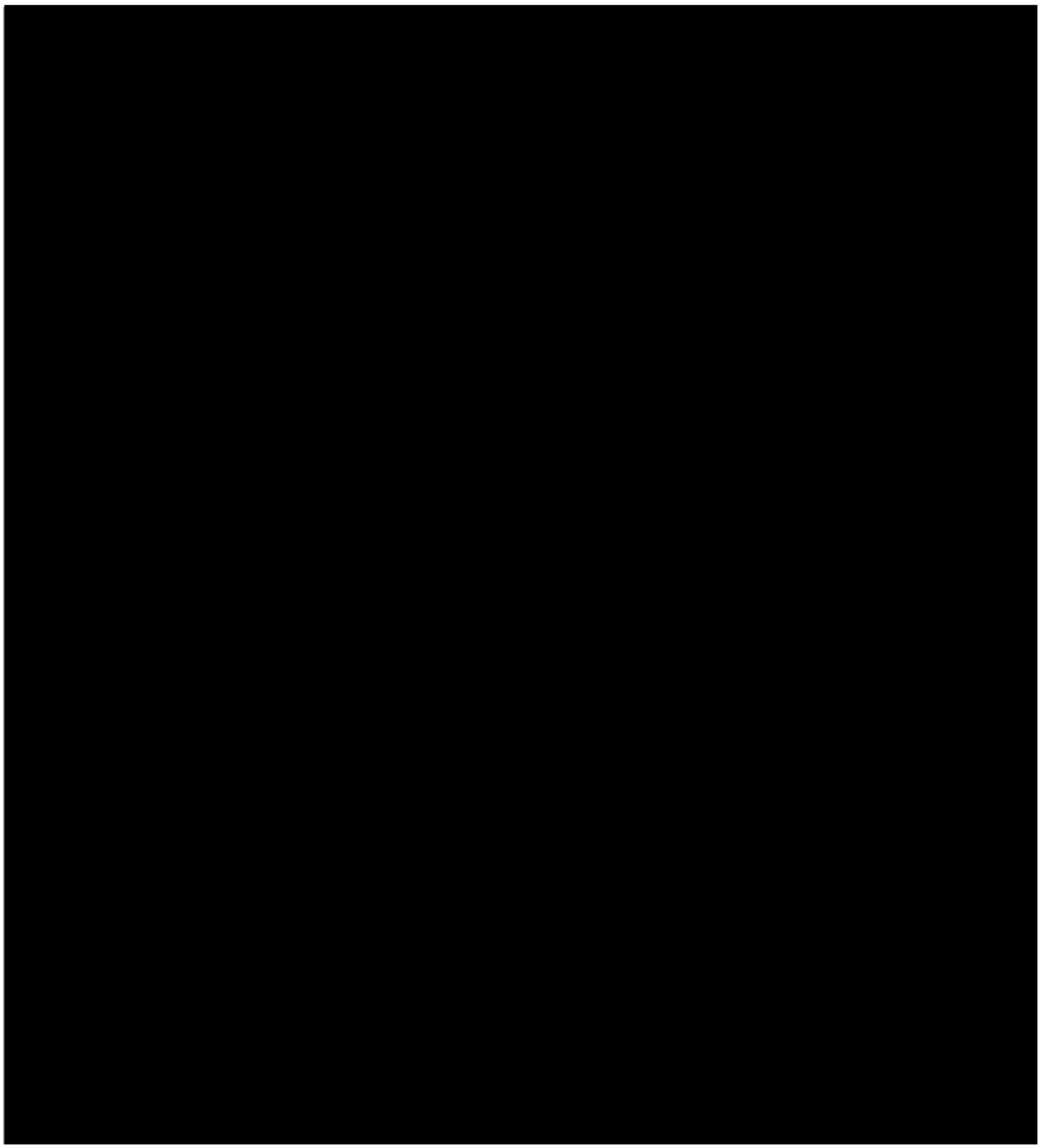












Q. Are there any particular buildings you have in mind where the maintenance workers are not capable of being trained?

A. Well, only because the way you have worded it, there is an individual in the Delta Cargo Building that I think just couldn't be trained to do

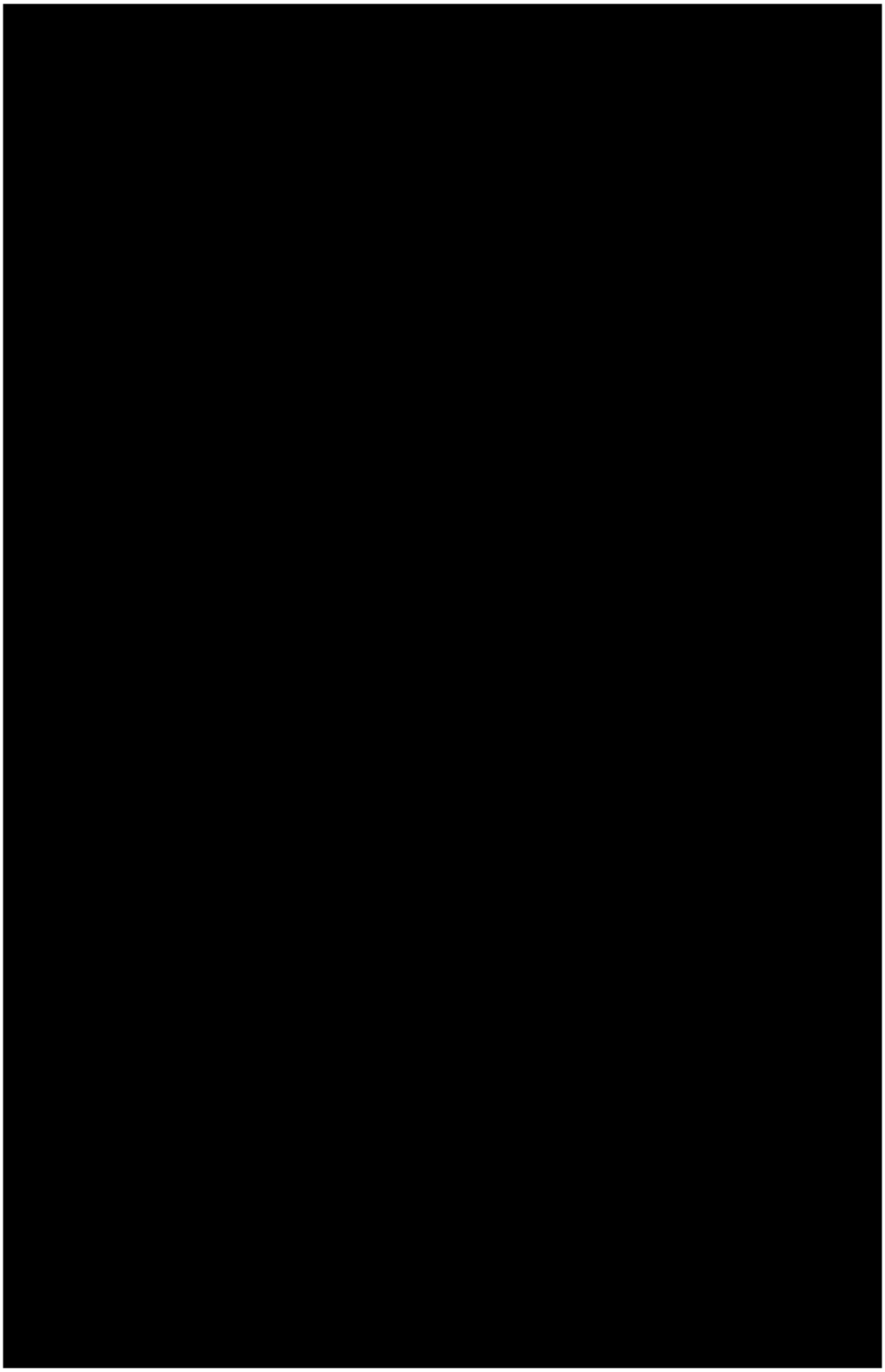
this simply because of a language barrier. But, that is all.

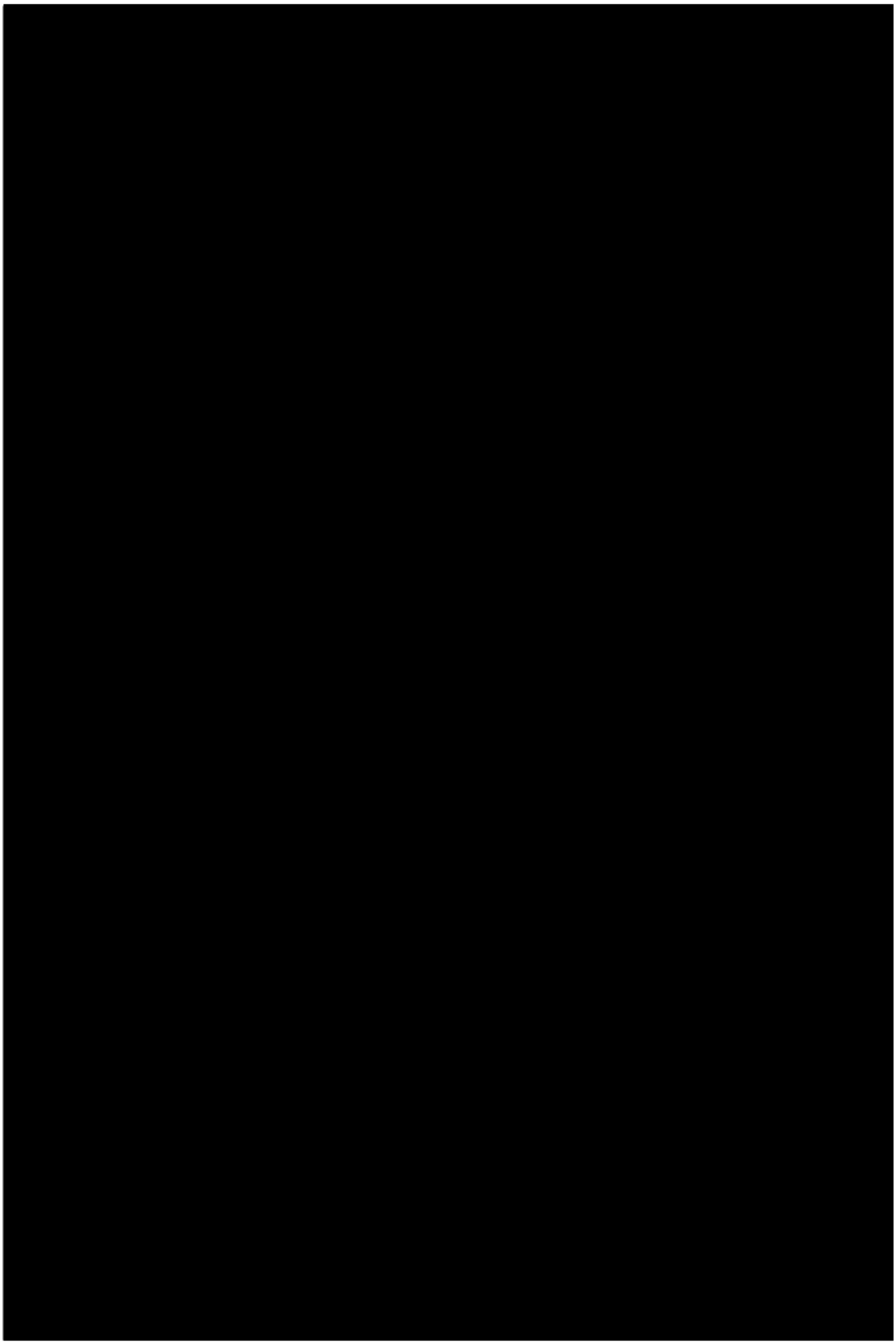
Q. Did that individual -- what was his language?

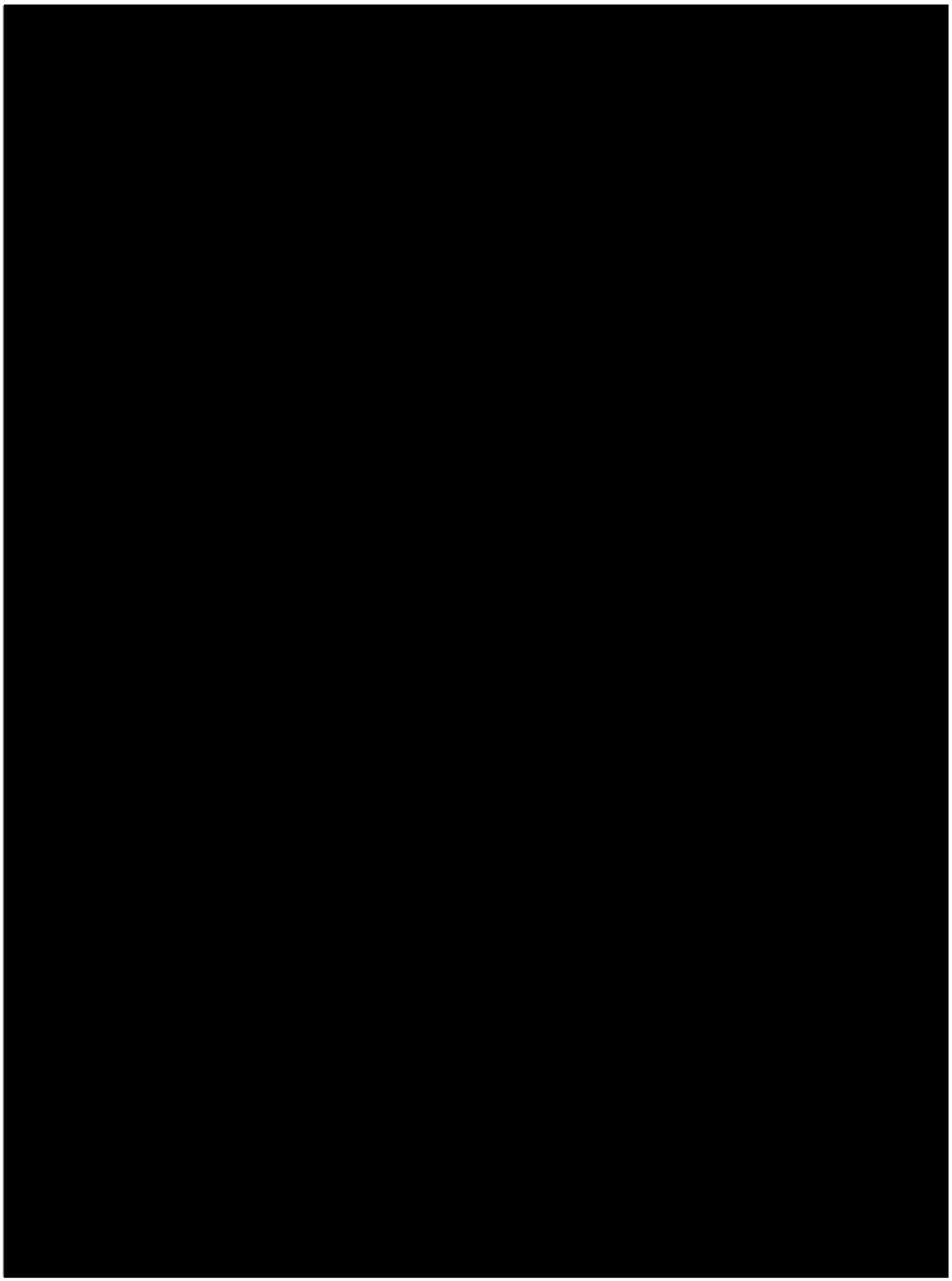
A. Russian.

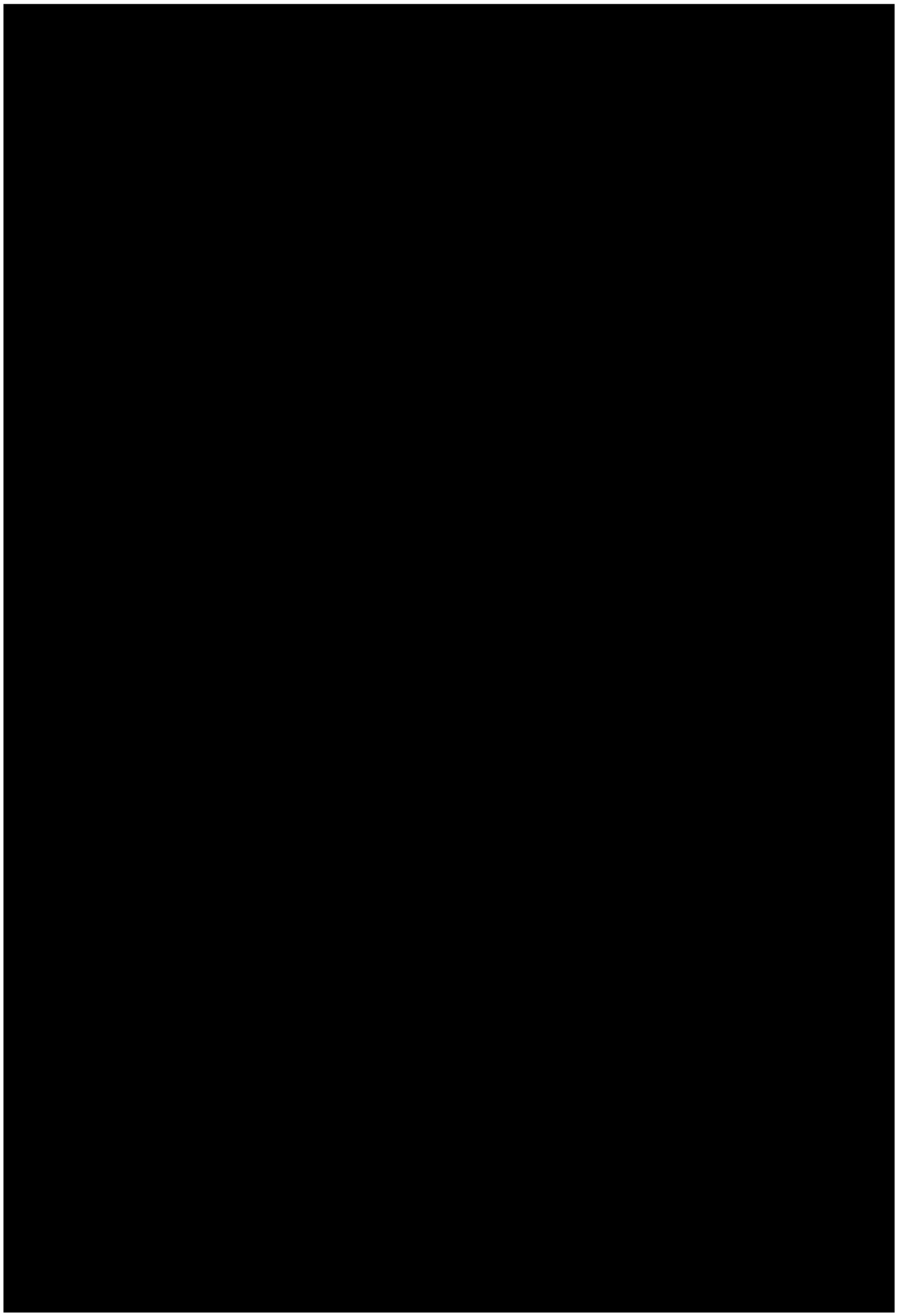
Q. But it is your belief he was not capable of being trained to follow an asbestos operations and maintenance program?

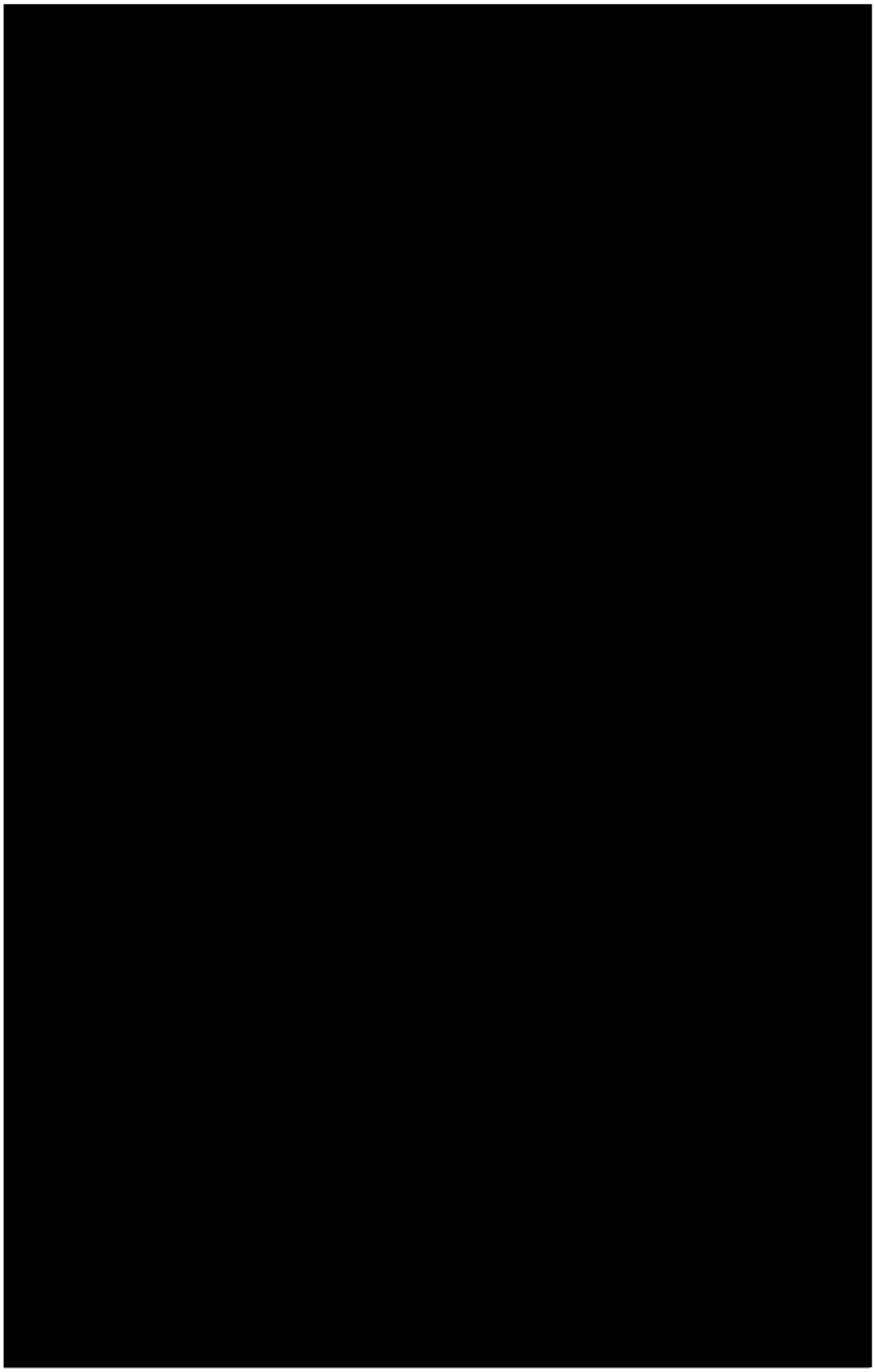
A. If it were taught in Russian and translated into Russian, I think he could be, yes.

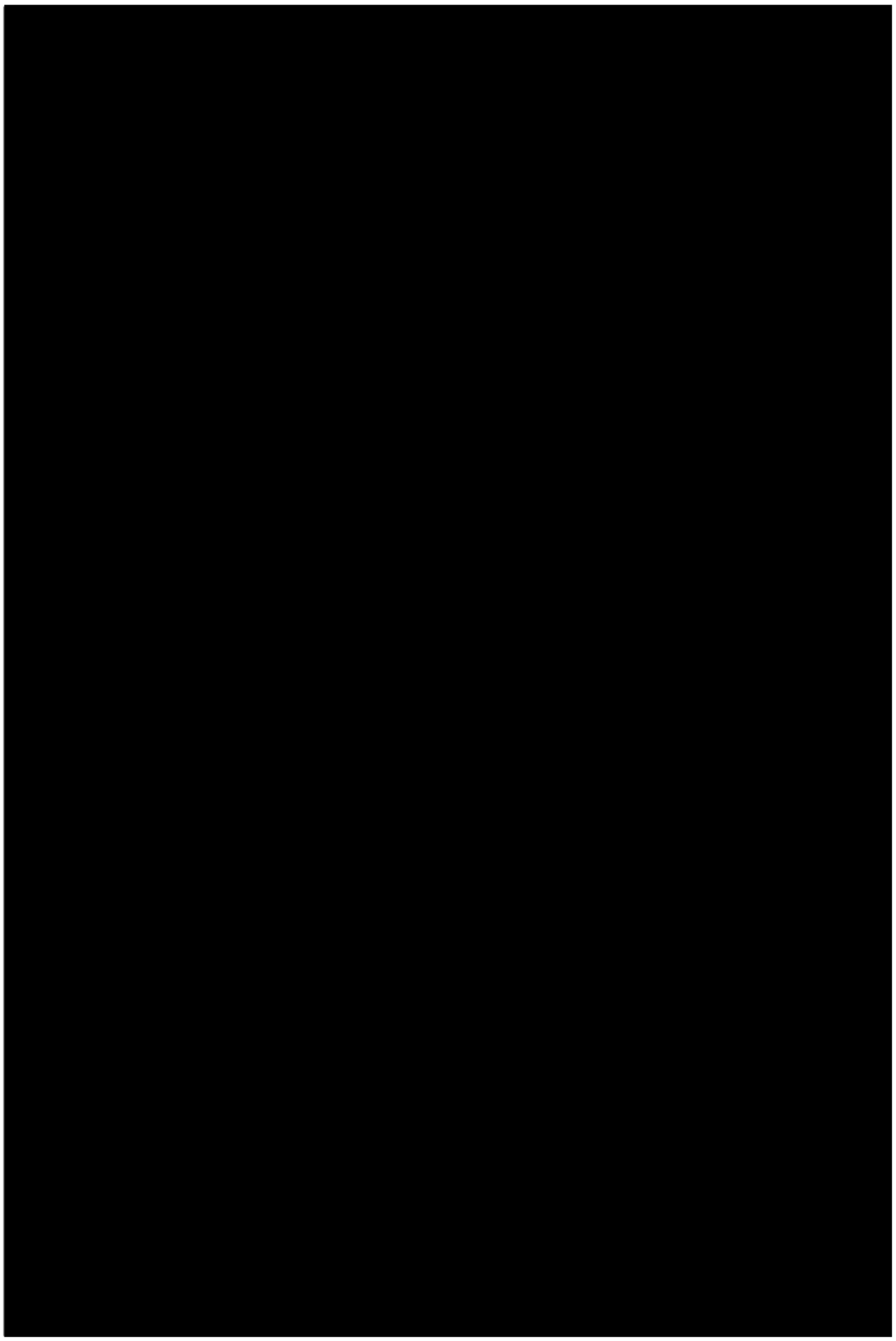


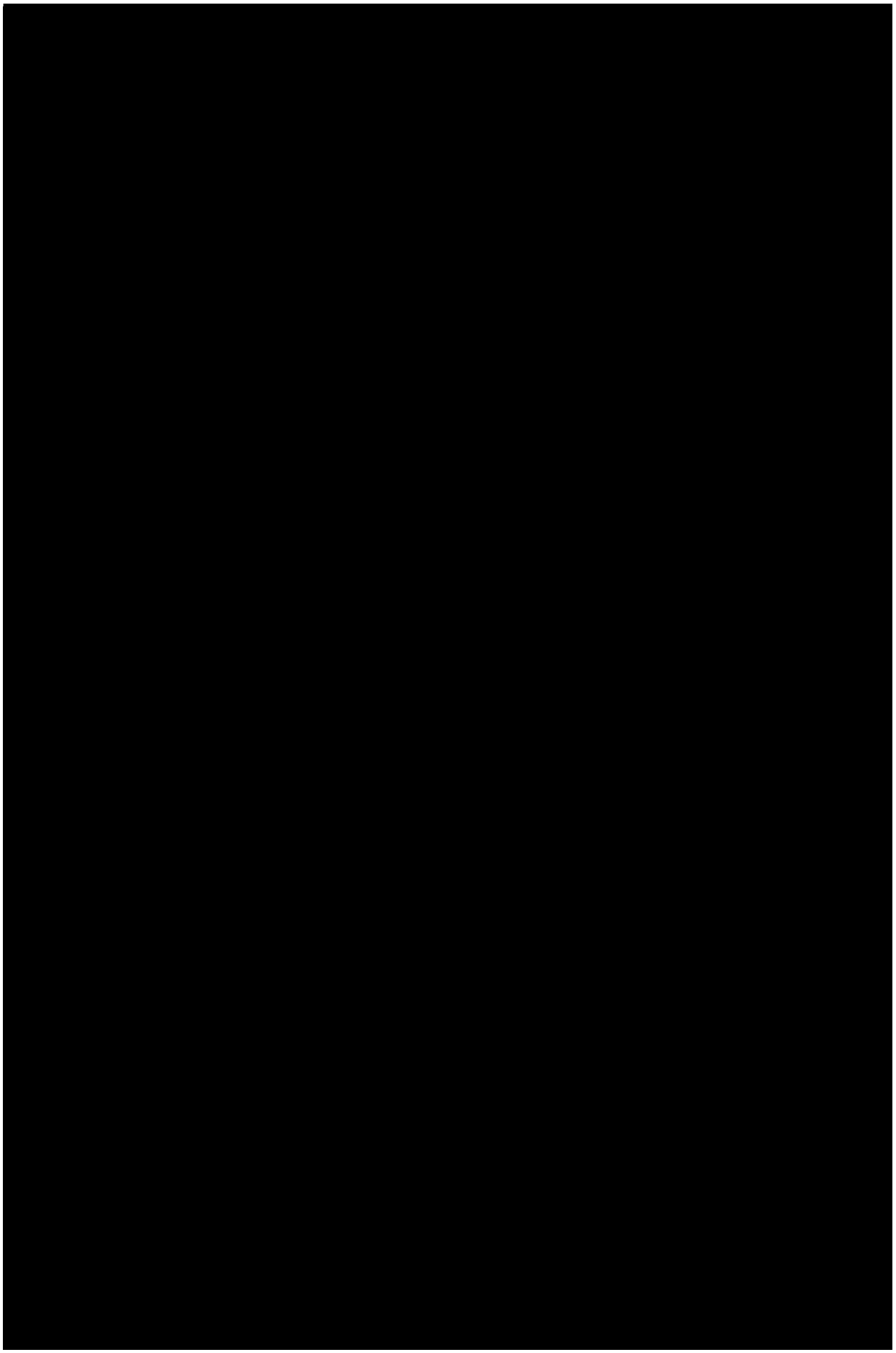


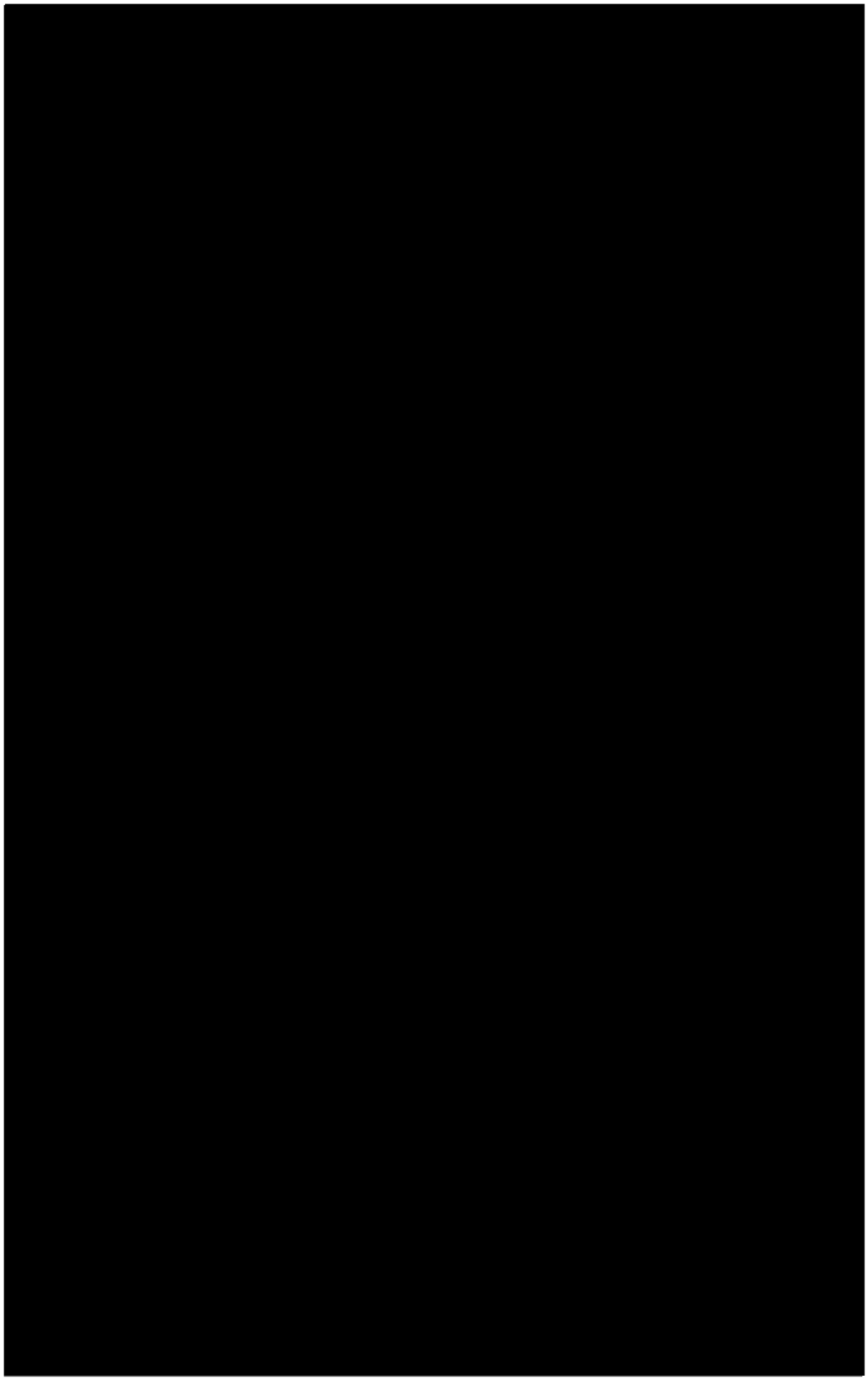


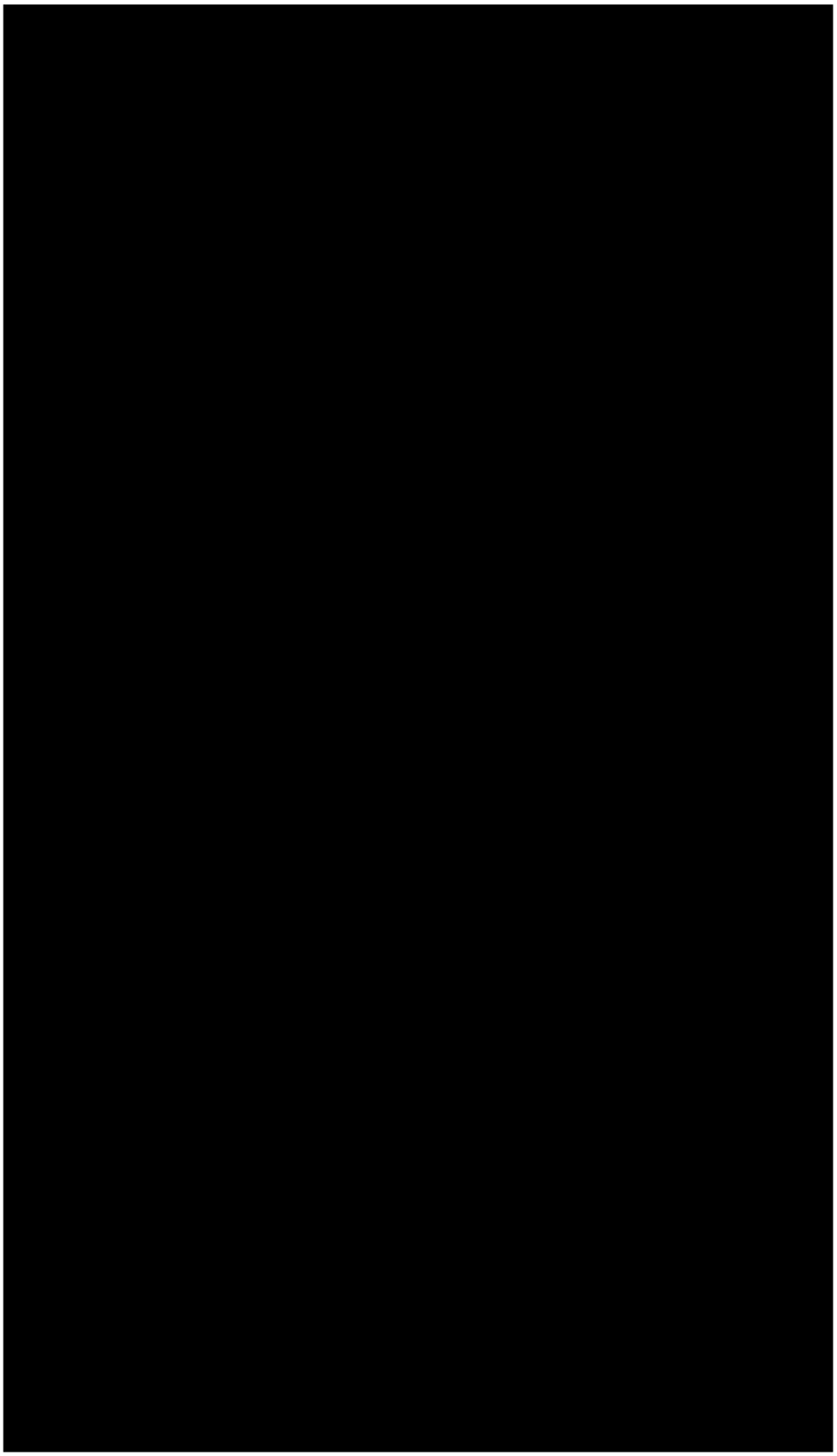


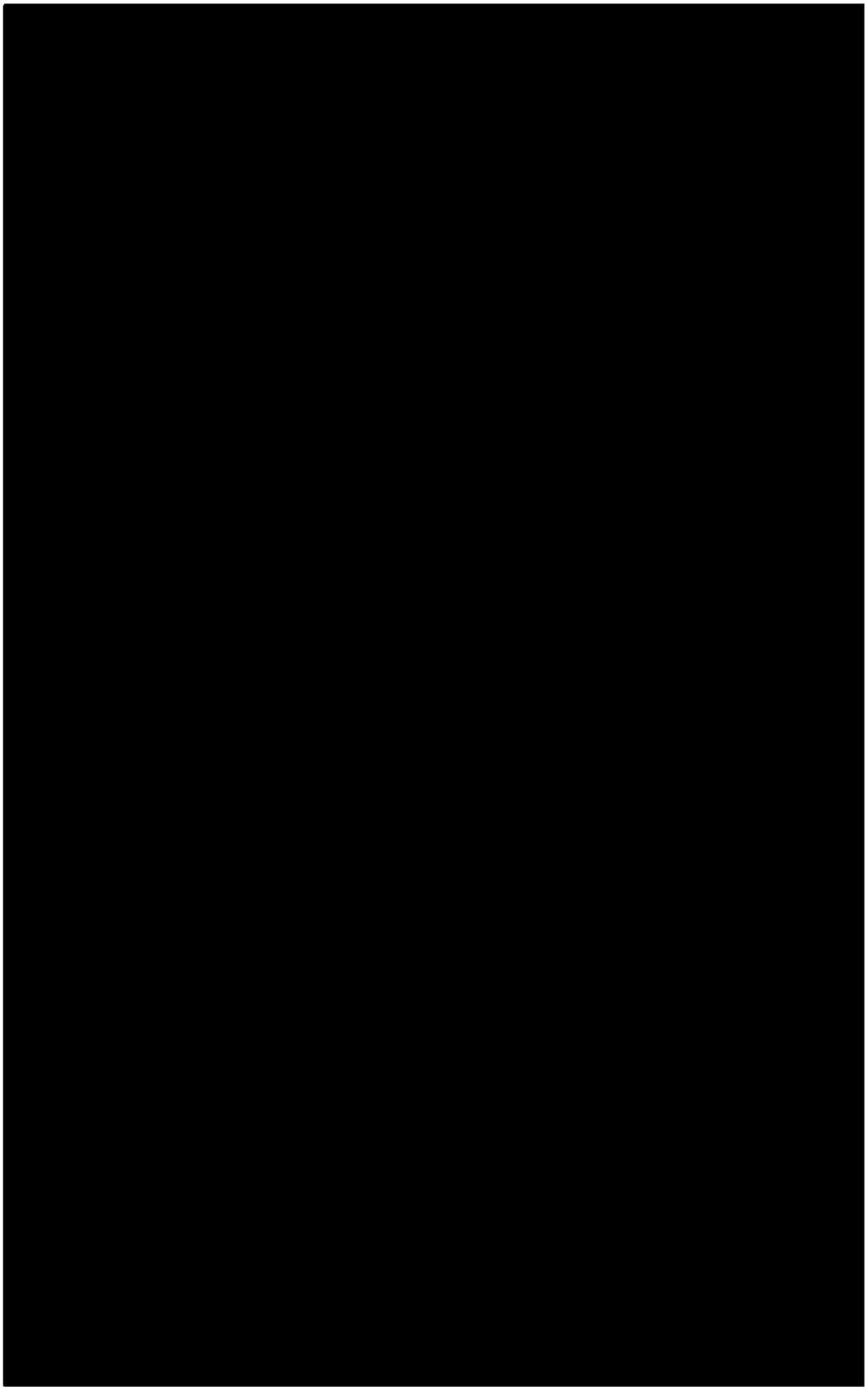












than the opinions you have expressed today regarding JFK Building 53 and [redacted]?

A. I expect them to be about the same.

Q. Any differences you can think of as you sit here today?

A. No.

Q. And the basis of those opinions would be the same types of material you described as the basis for your opinions regarding the other buildings, except they would be those same materials that were obtained or taken with respect to this building; is that correct?

A. Yes.

Would this be a good place to break for lunch?

Q. Almost. Could I ask just a few more follow-up questions here. Is it your opinion that there are any areas in this building that do not have asbestos contamination, as you have defined that term previously in this deposition?

A. It is my opinion that surfaces below in-place fireproofing in this building does have

asbestos contamination. Surfaces such as the desk that somebody sits at up above the toll plaza itself, I have no reason to believe that desk is

contaminated.

Q. Is your opinion, is it your opinion that workers in this building are at risk from asbestos exposure?

MR. JEKEL: Objection to the form of the question.

A. My concern is more for maintenance and service worker who work in the vicinity of the asbestos itself. I don't think the actual toll booth operators would receive a significant exposure to the asbestos from the fireproofing. Probably no more than they get from the brakes from the cars.

Q. Is it your opinion that the office workers in this building would receive a significant asbestos exposure from the fireproofing in that building?

MR. JEKEL: Objection to the form of the question.

A. I would not expect that under normal circumstances. I would expect

that, for example, just prior to my being there, someone was running coaxial cable through the ceiling plenum or the ceiling

space and not following the O & M procedures.

I have no idea what the exposures were from that cable pulling operation. I do believe that they would have resulted in a significant increase in the airborne concentration, at least to the person doing the work.

Q. Do you believe that increase -- is it your opinion that that increase would have exceeded the OSHA levels on a time-weighted average basis?

A. I wouldn't be able to offer the opinion on that.

Q. But you don't have an opinion one way or another?

A. My opinion would be that it is possible that it could have. It is also possible that it wouldn't have.

Q. And with respect to the maintenance workers you discussed in this building, would your concern regarding their asbestos exposure be

alleviated if they followed an appropriate asbestos and maintenance program for the building?

MR. JEKEL: Objection to the form of

the question.

A. It would certainly reduce their exposure. And if they followed it correctly, I think it could reduce their exposure to the point where I don't feel they were at any increased risk of exposure.

Q. Do you recall approximately approximately how long you spent inspecting this building?

A. Between an hour and a half and two hours.

Q. Other than that visit, have you paid any other visits to this building?

A. No.

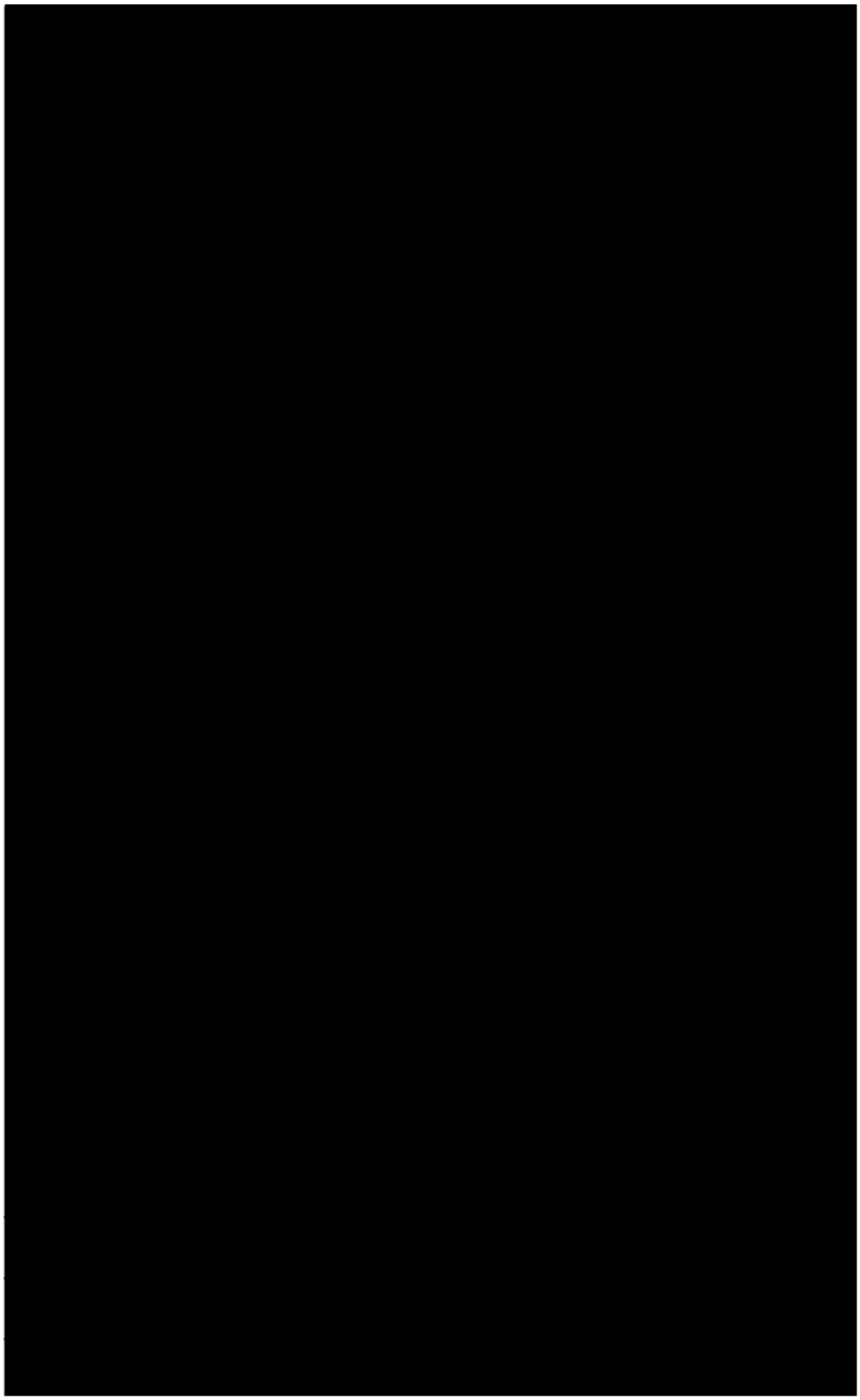
Q. And do you anticipate visiting this building again for any purpose?

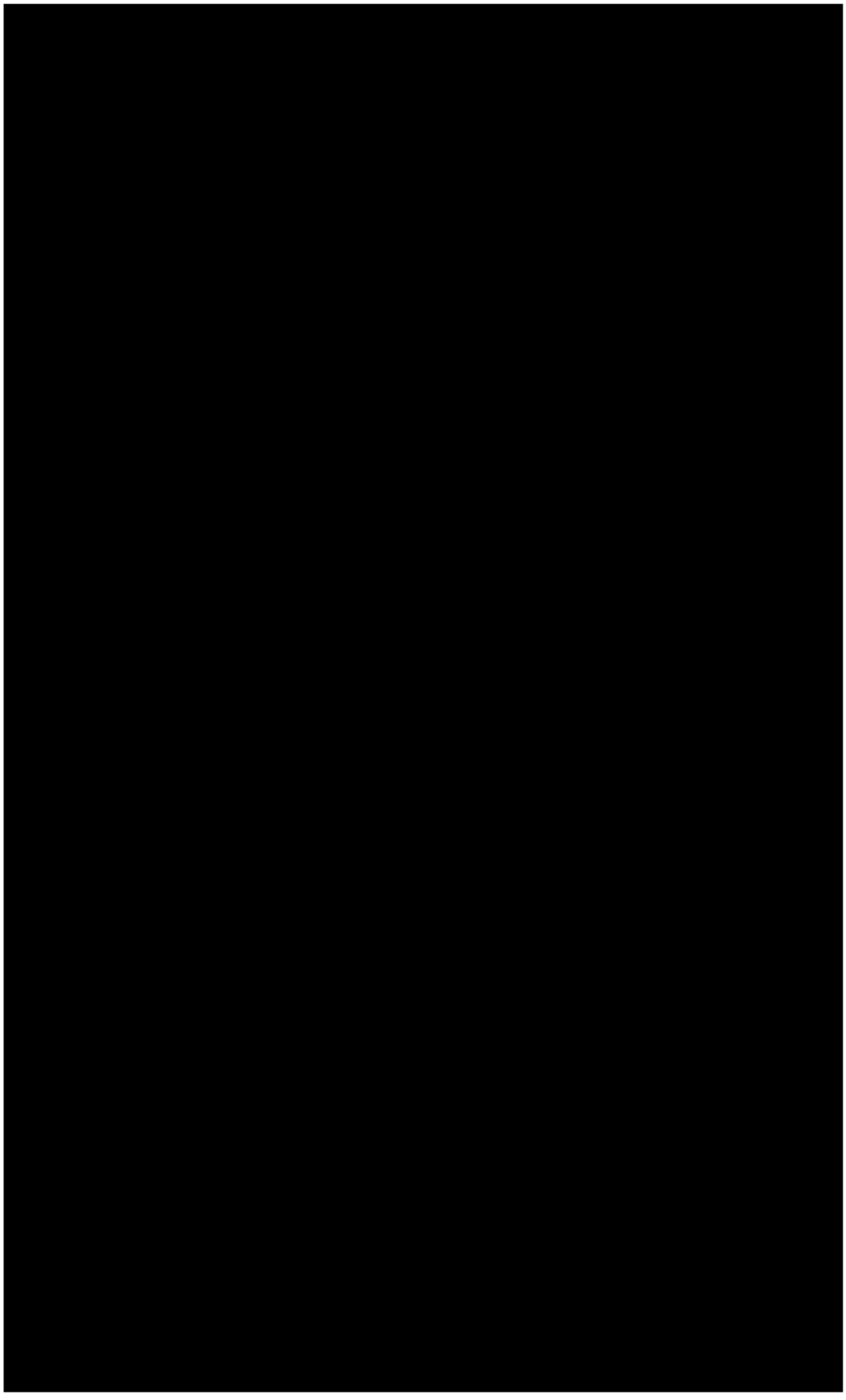
A. No.

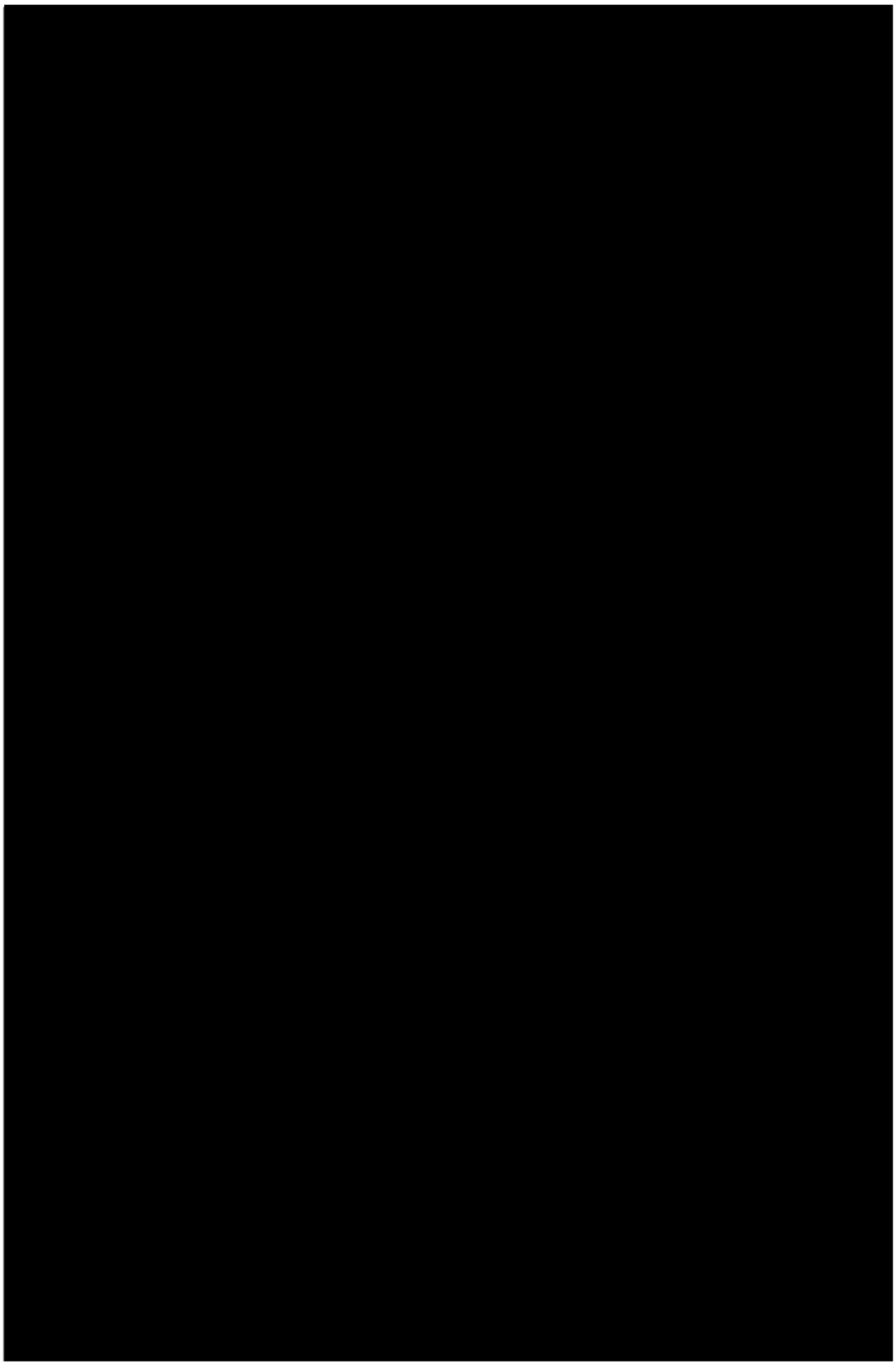
MR. NICYPER: As you request, this may be a good time to take a lunch break.

(Luncheon recess was taken.)

(Ewing Exhibit 27 was marked for identification.)







Q. Did you take any debris samples in any other buildings, other than the two referred to in Exhibit 27?

A. No, I did not.

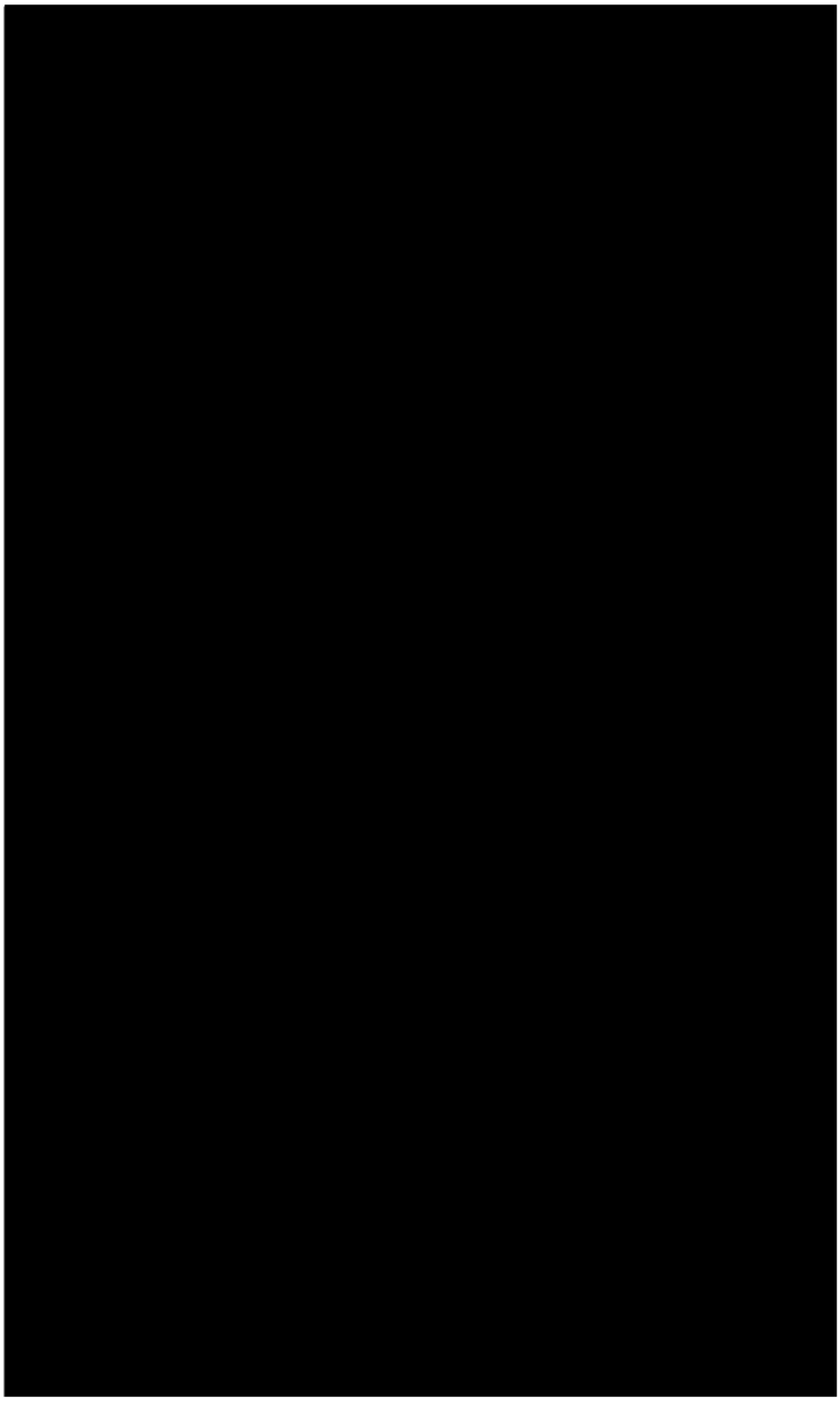
Q. If someone questioned the constituents of a debris sample in Building 53, would you use this debris sample from Building [redacted] as a basis for any opinion you might give in that regard?

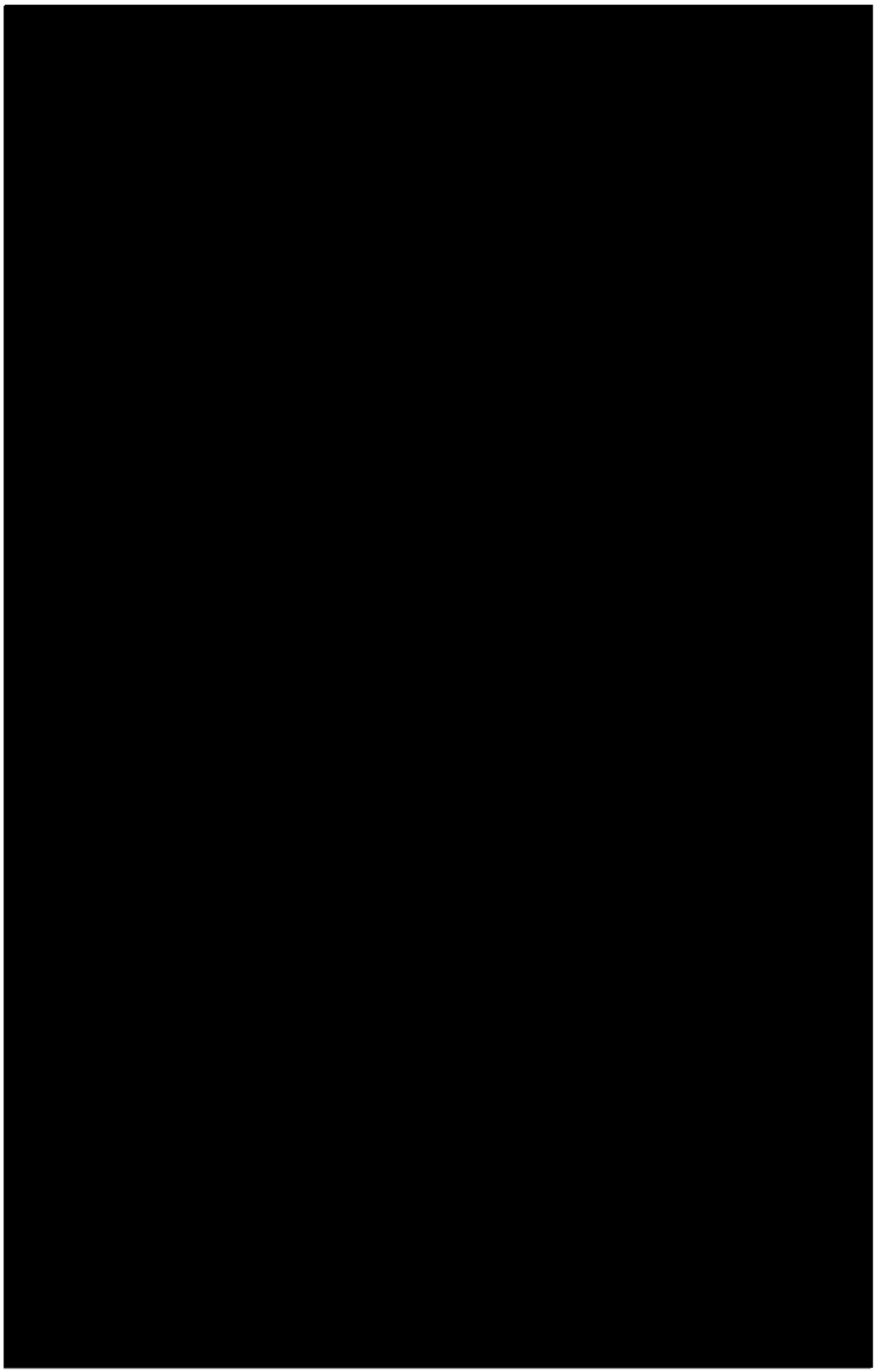
A. What is Building 53?

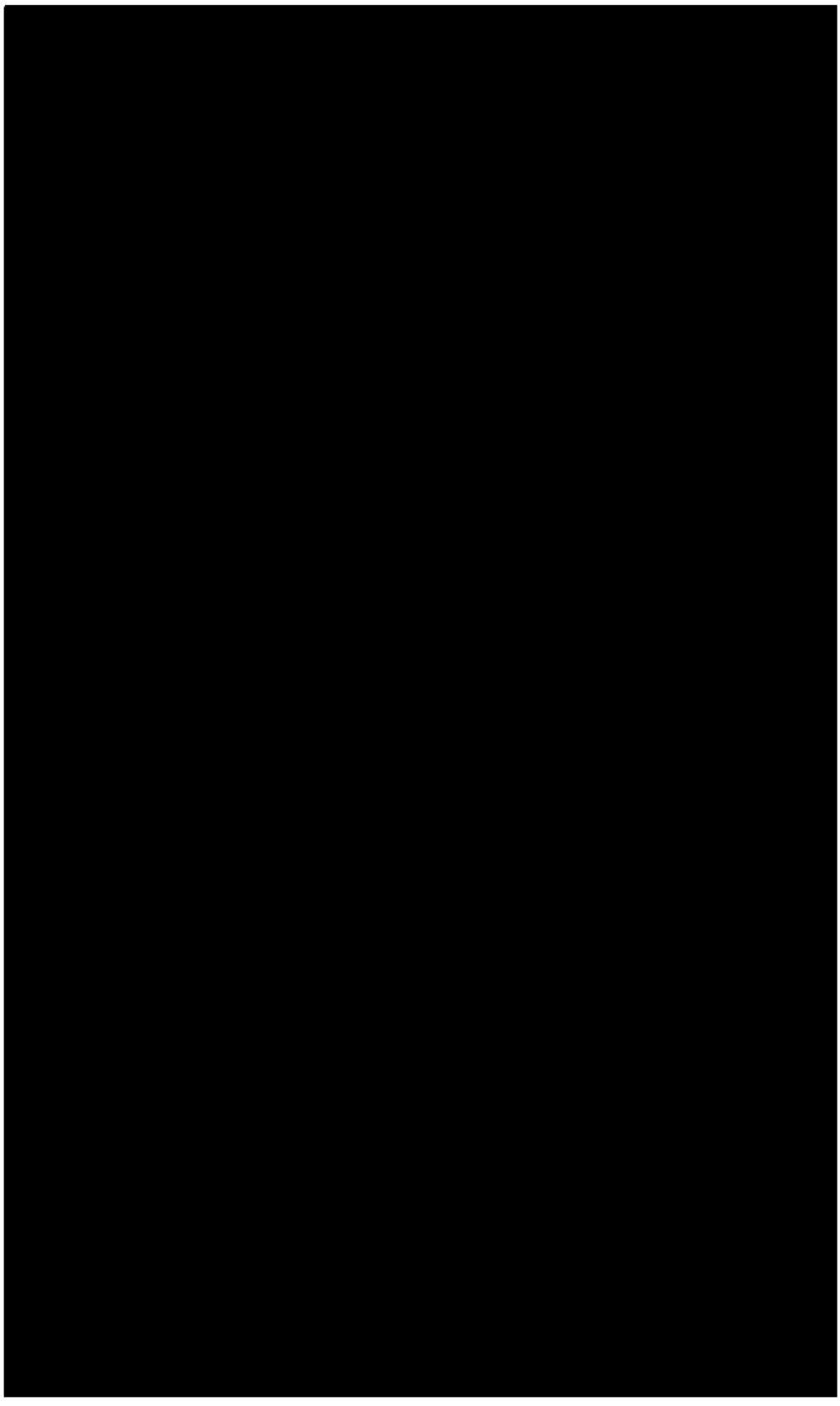
Q. I am sorry, that was the Delta Terminal?

A. I don't think so, no. If I understand your question, no, I would not do that.

[redacted]







[redacted]

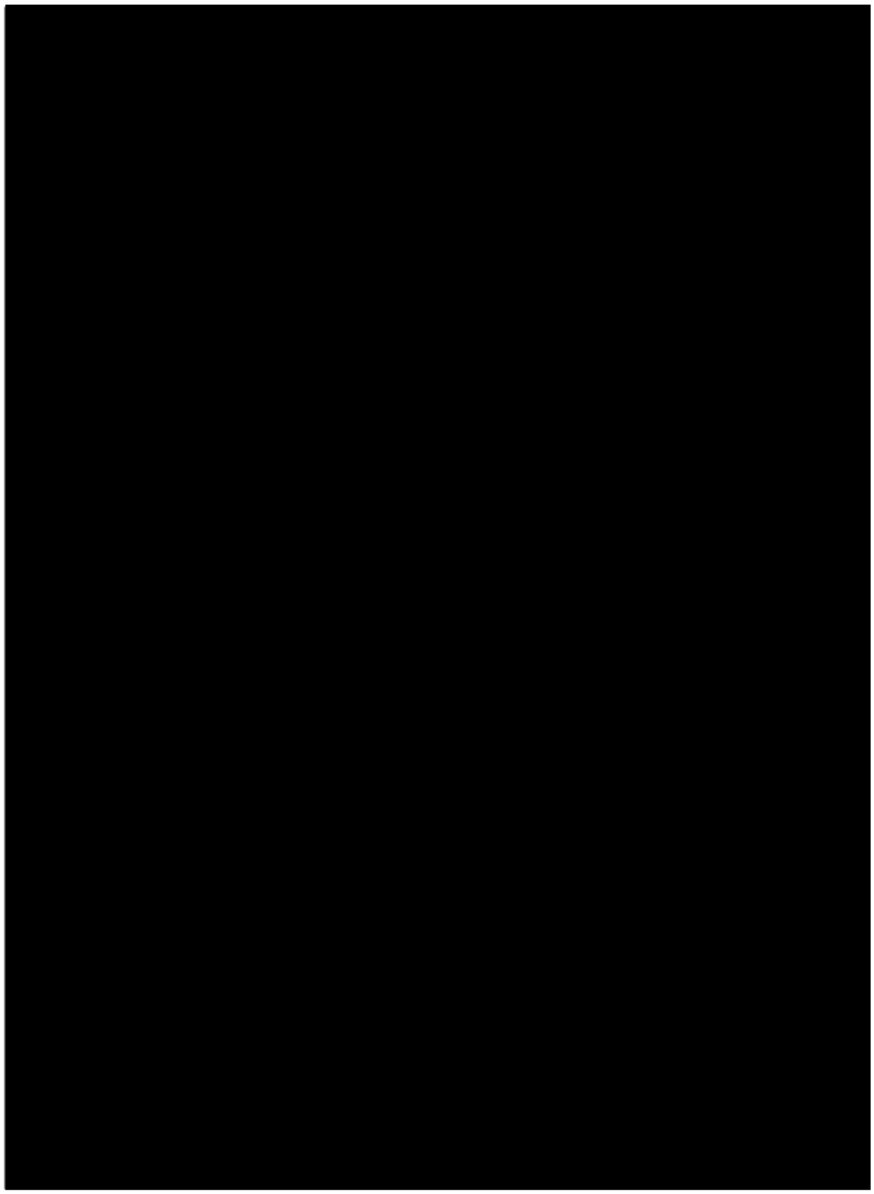
24 Q. When you inspected the buildings that we

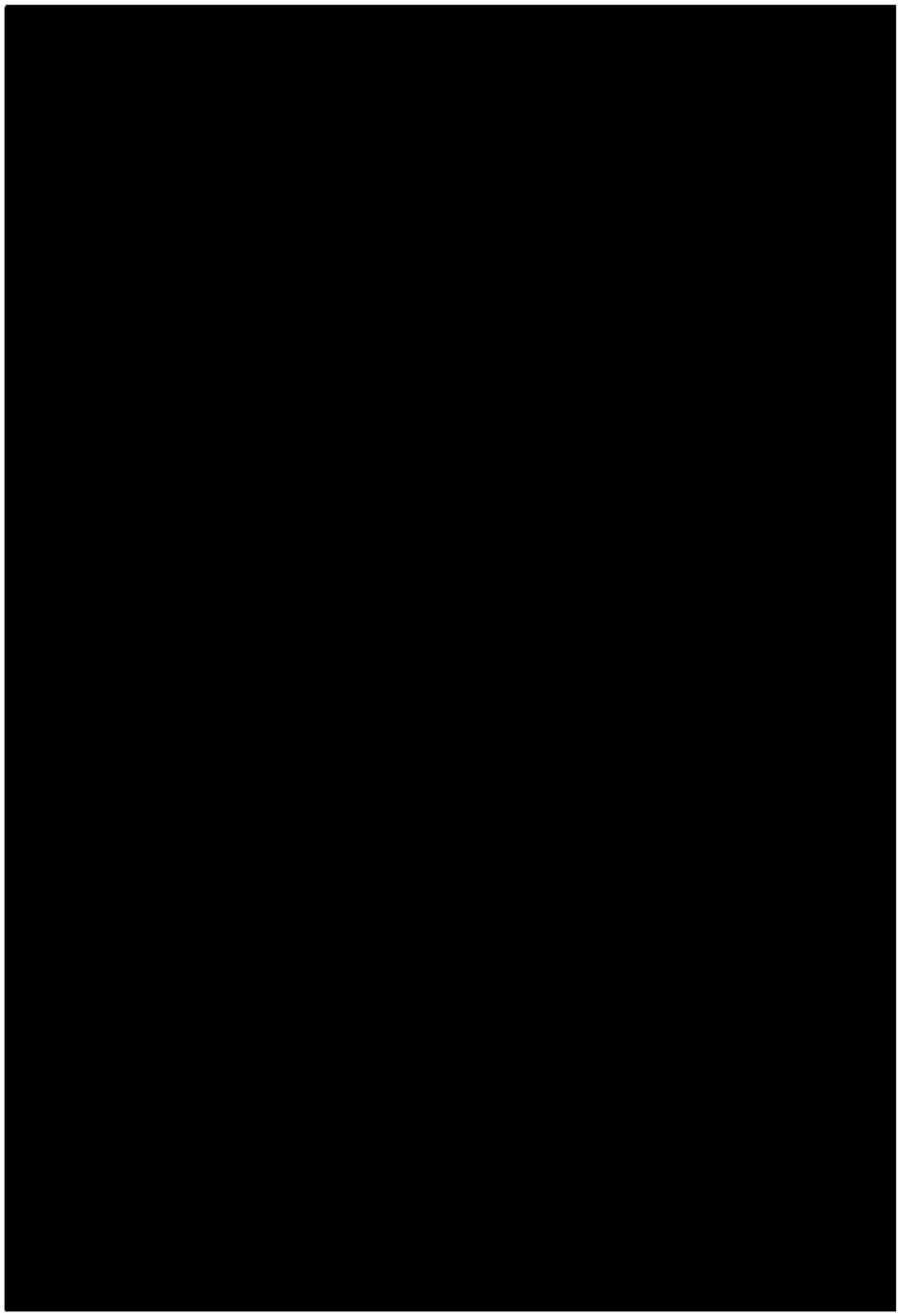
25 have discussed thus far, do you recall during any of

those inspections that ceiling tiles were moved in order for you to inspect fireproofing above a drop ceiling?

A. Yes.

Q. Do you recall in which building that occurred?





Q. Were the same procedures followed, I think you said Building 53, the Delta Terminal, was the same procedure followed for going above the

ceiling in the Delta Terminal?

A. Yes, with the exception of, for example, if there was an area outside customs arrivals, there

was an area that had a number, I think it was 14 metal pan ceiling tiles out. Did not need to put down plastic and did not put a suit on. I put on a respirator to look up above the area.

Q. I see. But where ceiling tiles were removed, you did put plastic down and did put a suit on?

A. Yes. To finish that answer --

Q. I am sorry, I didn't mean to interrupt.

A. -- there was another special circumstance that makes it easy to do some inspections at that particular building.

There are areas that have been abated, and you could go to the edge of an area that had been abated, and go up into the ceiling at that point, and then actually look into areas that had not been abated.

Q. Do you recall whether there were any ceiling tiles moved in order for you to look above the ceiling in any areas that had not been abated in the Delta Terminal?

A. Yes.

Q. And the procedure you used there, I think you have described, you put plastic down on the floor, a ladder on top and you wore a suit and a

respirator to go above the ceiling?

A. Yes.

Q. And, in those circumstances, as I understand it, you did not use an enclosure, or tent enclosure around the area where the ceiling tile was moved; is that correct?

A. That is correct. We did have a HEPA vacuum for cleanup as well.

Q. Have you at any time reviewed the videotape prepared by Dr. Longo and Mr. Hatfield regarding ceiling tile dust and debris? It is included in one of the videotapes in your collection of 13?

A. I know which one you are talking about. Yes, I have.

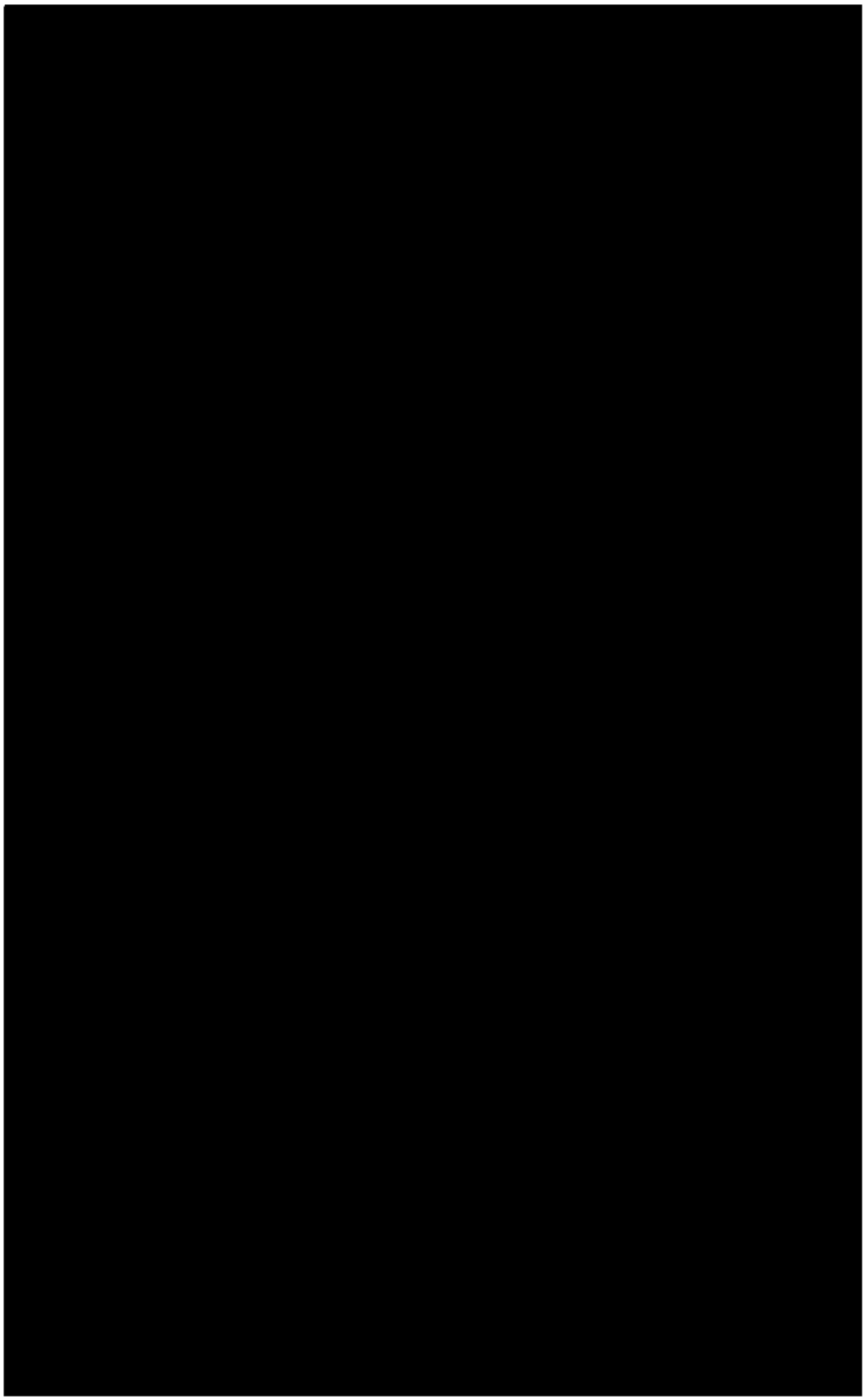
Q. Can you recall any of the ceiling tiles that were moved in order for you to go above a drop ceiling in any of the Port Authority buildings, whether any of those ceiling tiles contained the same amount of dust and debris that you saw on the videotape in Dr. Longo and Mr. Hatfield's video?

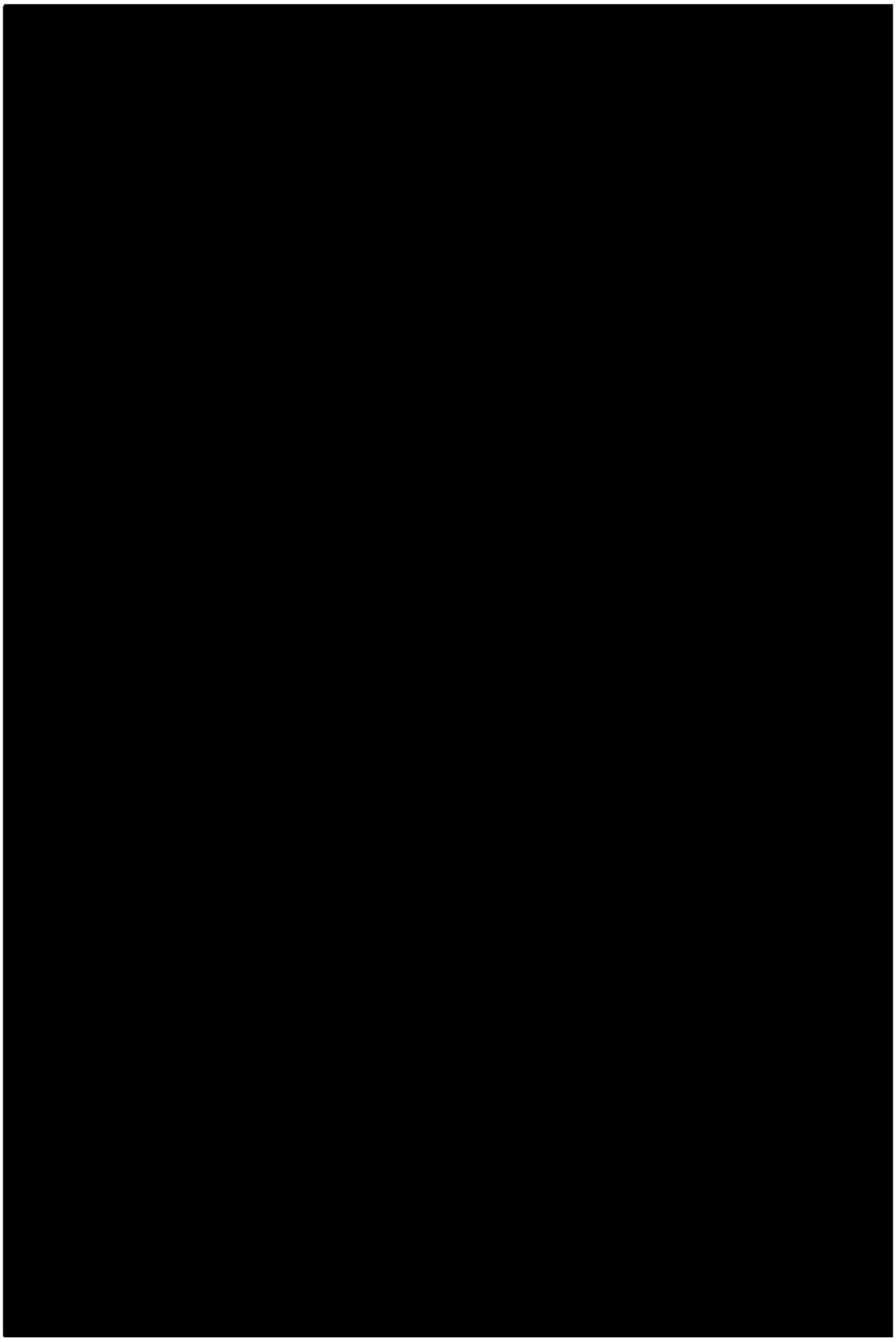
A. The actual tile that I moved, or

adjoining tiles?

Q. Yes, the one that you moved.

[redacted]





Q. And are there any other photographs that you find in your building, Delta Terminal, set of photographs that has the same quantity of dust and debris as you saw on the videotape by Dr. Longo and Mr. Hatfield?

A. Well, there is photograph 15 12:35. And, I would say I don't know the actual quantity that was in the videotape, but it would seem that this would be somewhat comparable to it.

Q. On that same ceiling tile that you have identified in 15 12:35 photograph, there also appear to be some metal pieces and some metal hooks there and things; is that correct?

A. Photograph 15 12:35 is not a ceiling tile.

Q. Okay.

A. And your question earlier was ceiling tiles but now was any amount, so I thought --

Q. I see. I did not mean to go away from ceiling tiles. What was that area that you have in that photo, is that a duct?

A. That is the top of an air duct, yes.

Q. Have there been work done above it, or are those metal pieces on top of the duct from work that had been conducted somewhere above that duct?

A. Well, the metal pieces I see just appear to be the hanger straps for the duct. I don't know the maintenance history of the area.

Q. Do you see any other ceiling tile photographs that fit the description that we just discussed?

A. On photographs 10:47 and 10:46, I believe it is 10:46 is ceiling tiles and 10:47 -- I would have to look them up exactly what they are. But, when you open up the ceiling, that is what you see.

And it would be my opinion that that would be considerably more than what you would see in the Hatfield video.

Q. And, do you recall that the material you see on 10:46 had actually been dislodged or scraped from the fireproofing above in order to install equipment?

A. It is my opinion that the material, the fireproofing, had delaminated from the beam up above that.

Q. When you say delaminated, what was the cause, in your mind, of the delamination?

A. Loss of adhesion between the fireproofing and the metal beam itself.

Q. What is the basis for your conclusion?

A. Touching the fireproofing and noting that there was a gap between fireproofing where it had separated right at this point, and seeing sections missing.

Q. You are referring there to photograph 10:45, which appears to have a beam with fireproofing on it, and then some areas where there is no fireproofing that appears to be covered with rust; is that correct?

MR. JEKEL: Objection to the form of

the question.

A. Yes, that is correct.

Q. Do you know whether

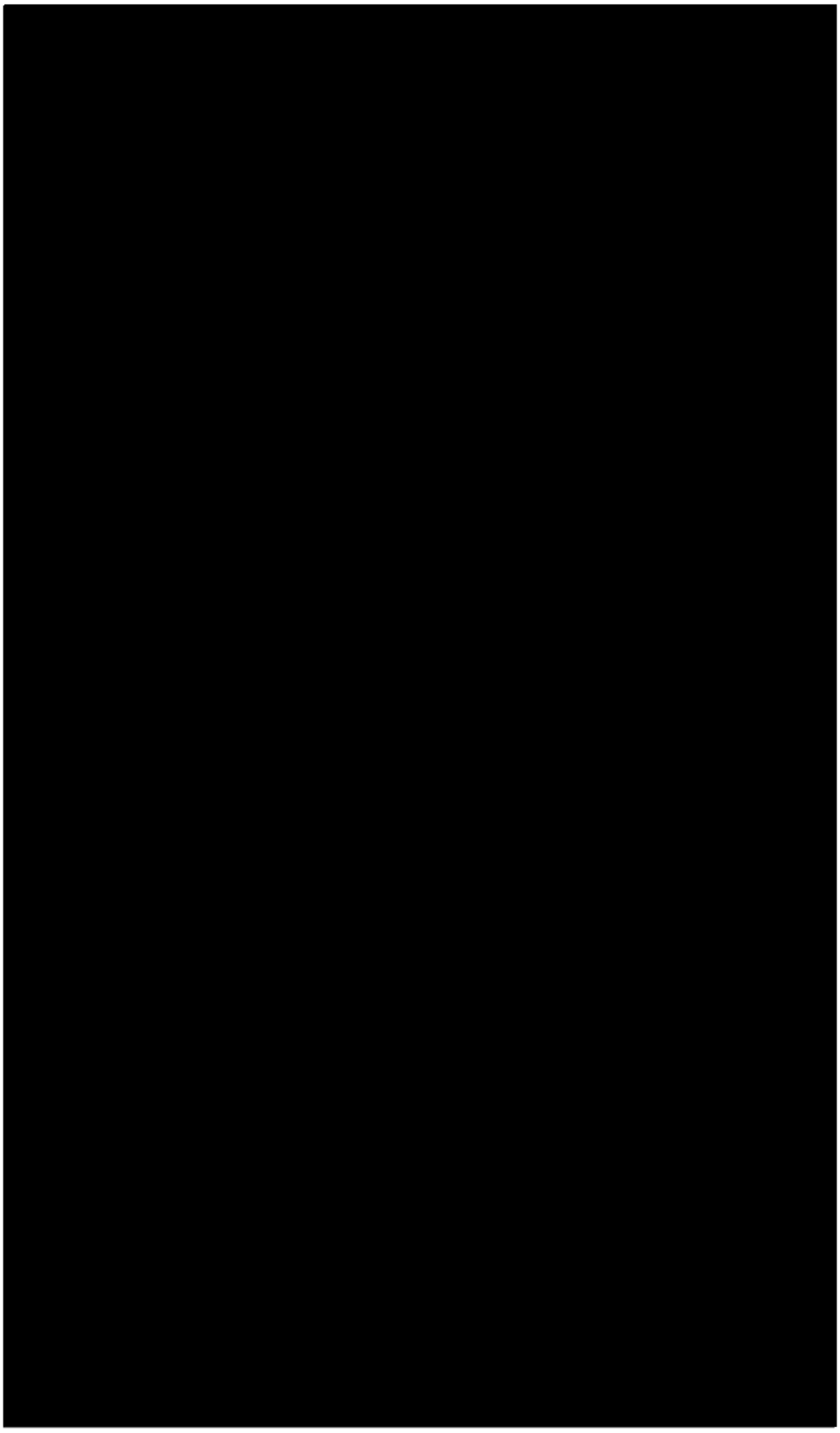
there was any water damage in that area?

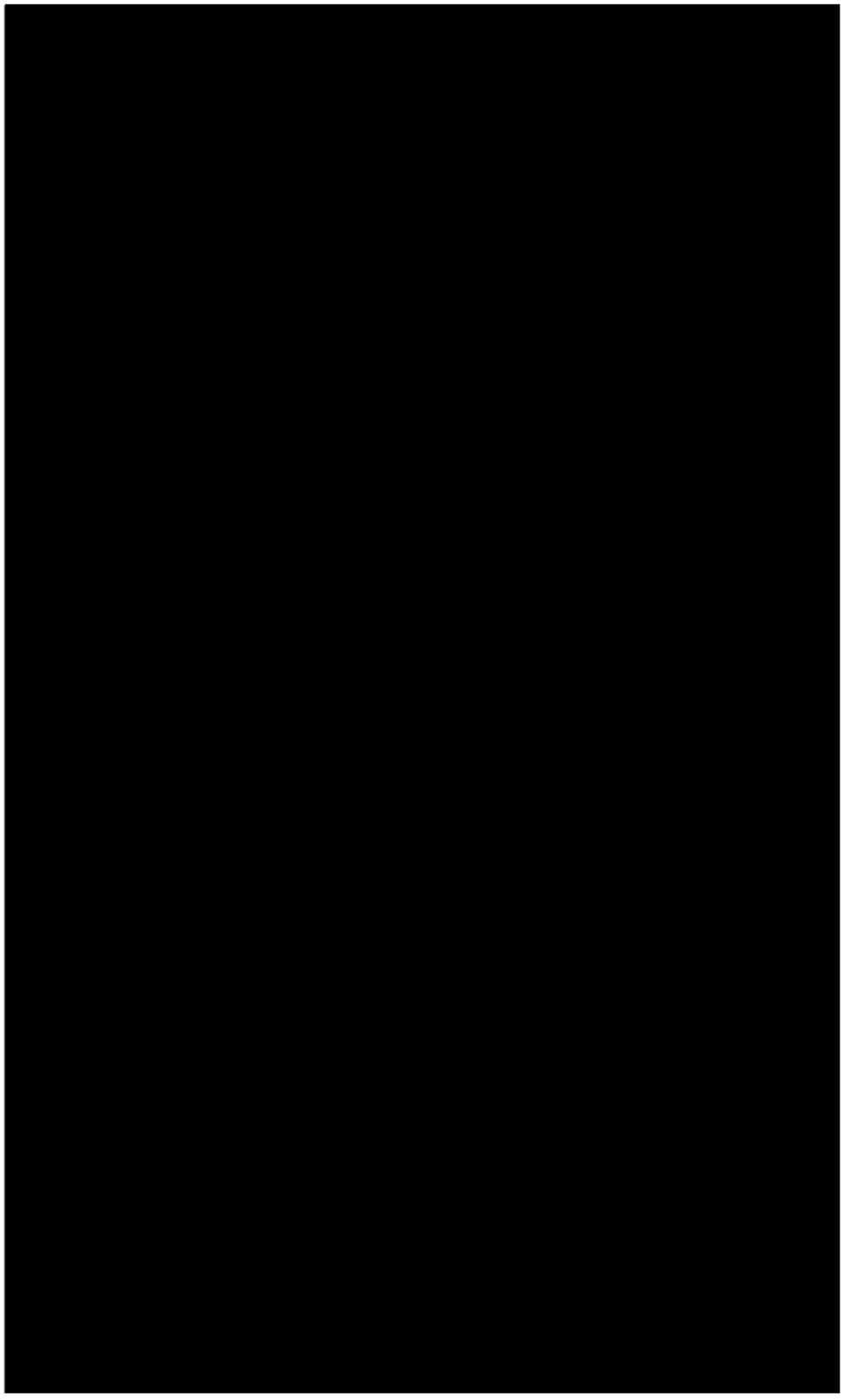
A. It appears that there may have been some water damage to the fireproofing, but it is unclear where that could have come from.

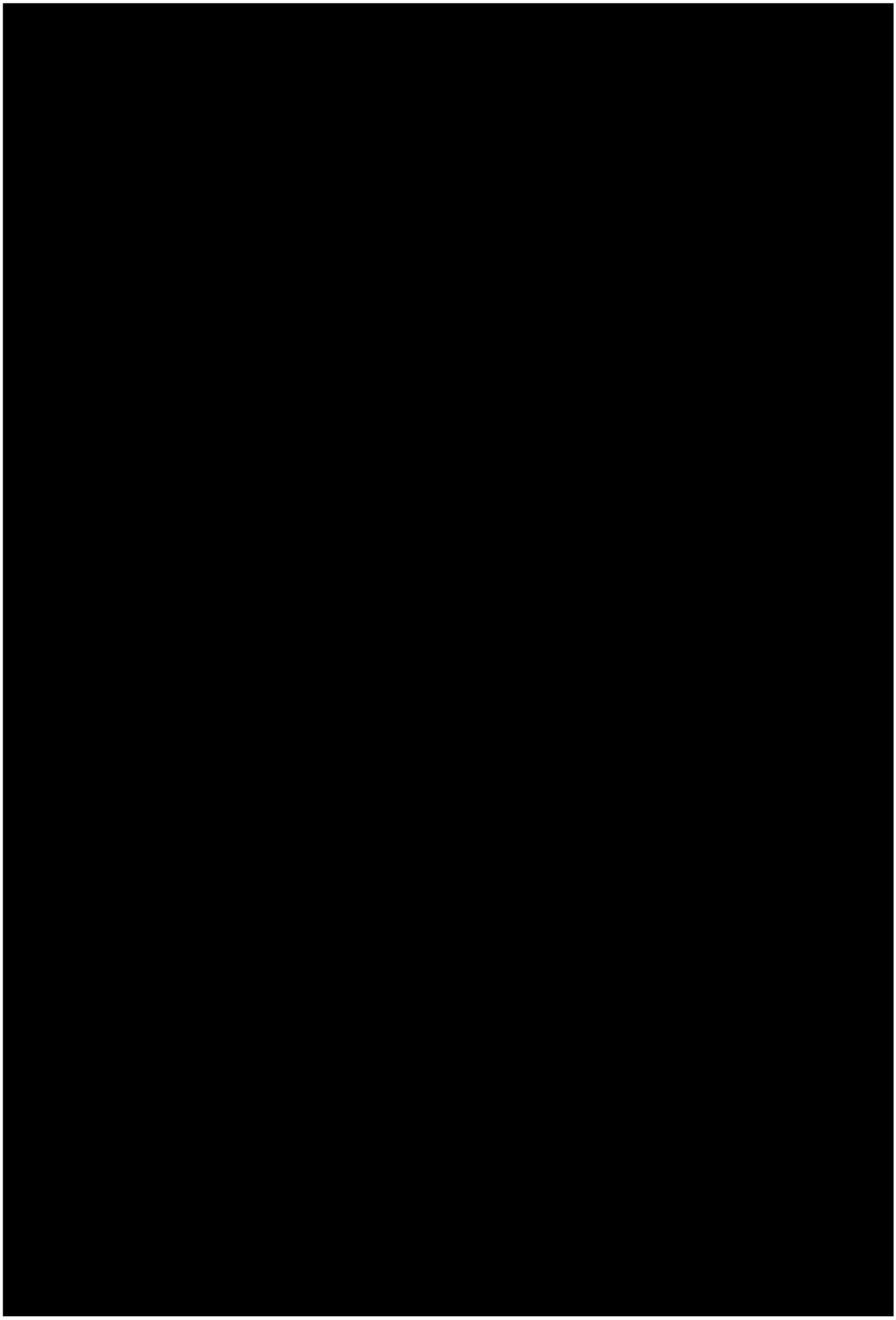
Q. And, go ahead and complete your review and tell me if you find any other ceiling tiles with the same quantity of dust and debris as you viewed on the videotape by Dr. Longo and Mr. Hatfield?

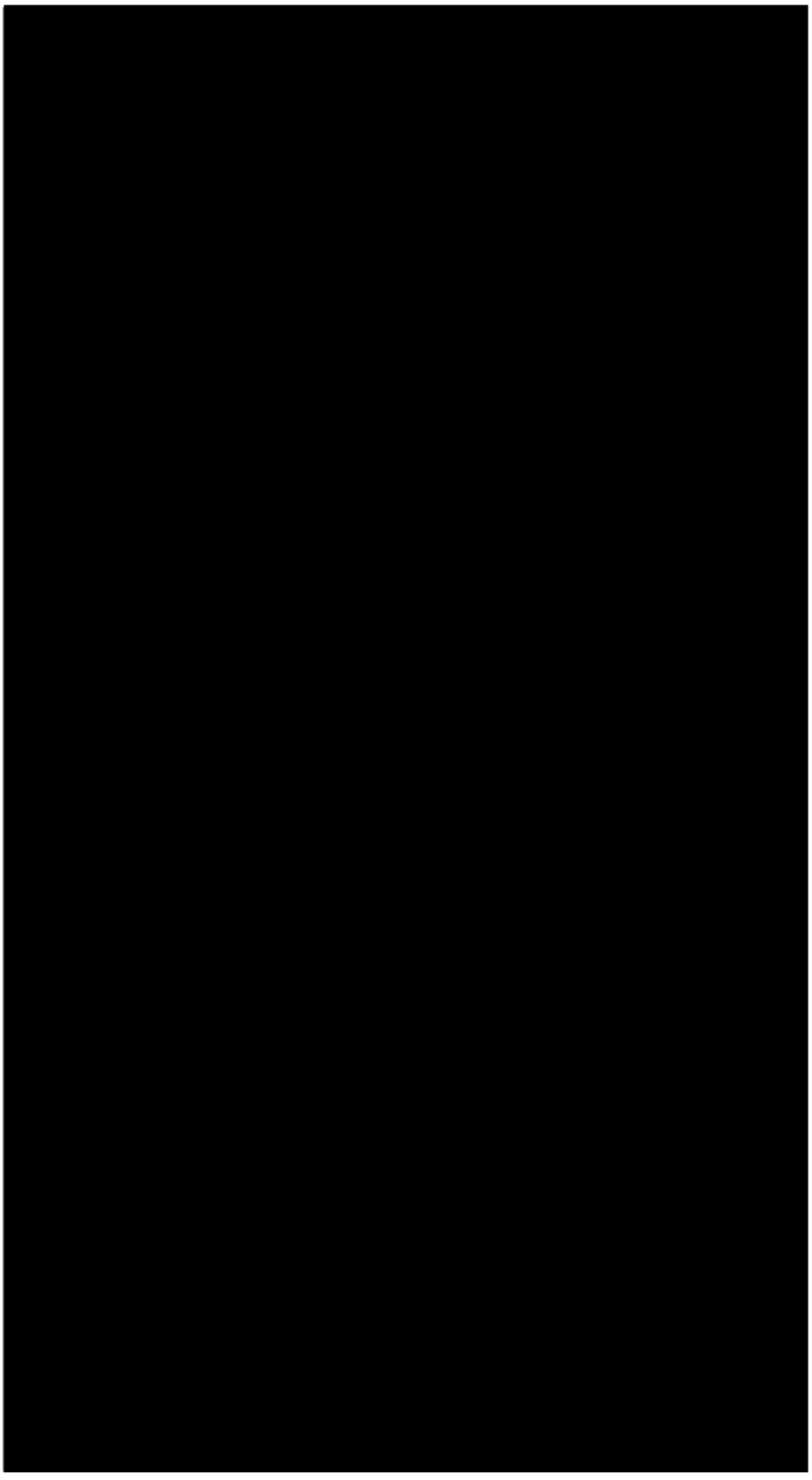
MR. JEKEL: Just the [redacted] or do you want him to go through all of the photos

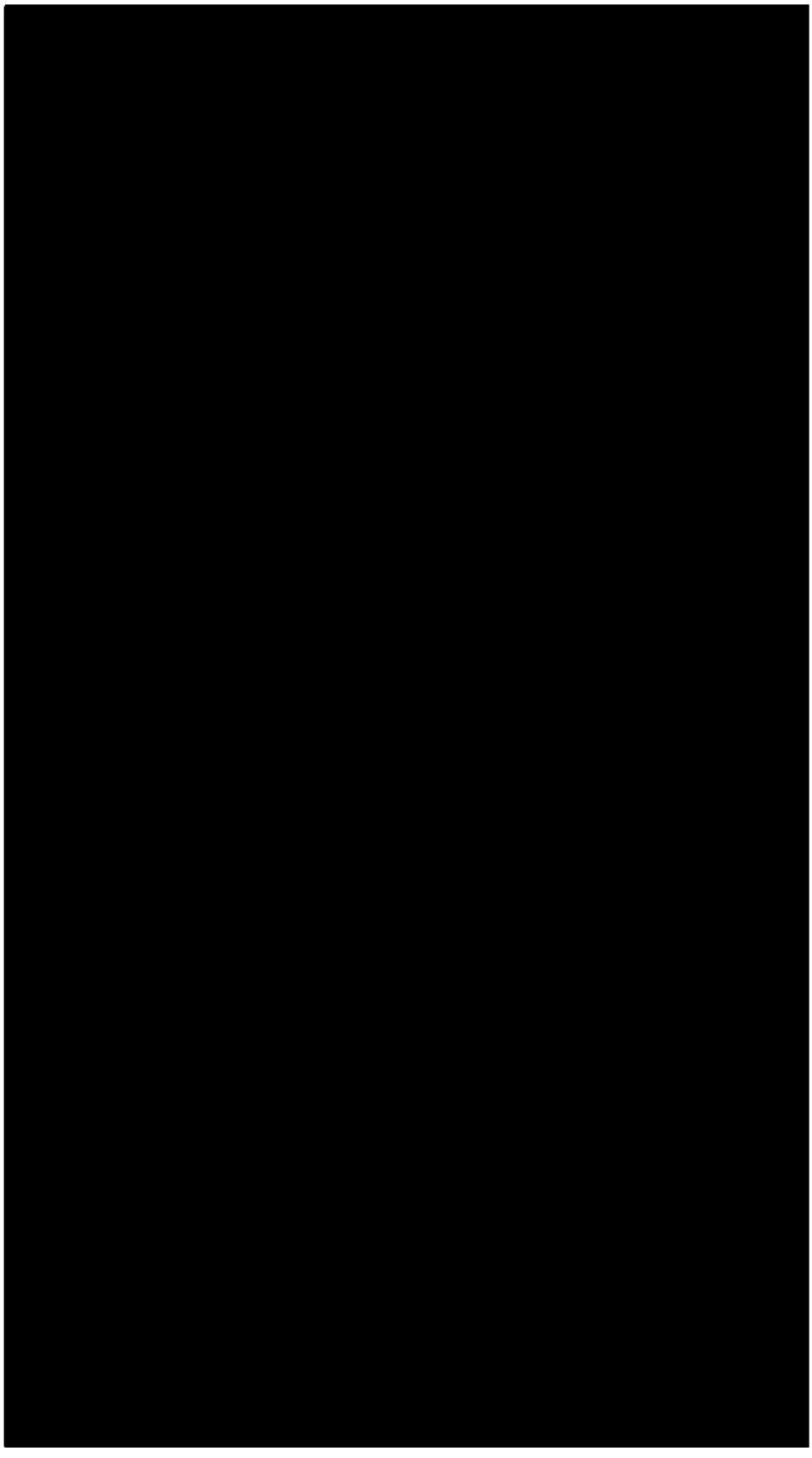
[redacted]

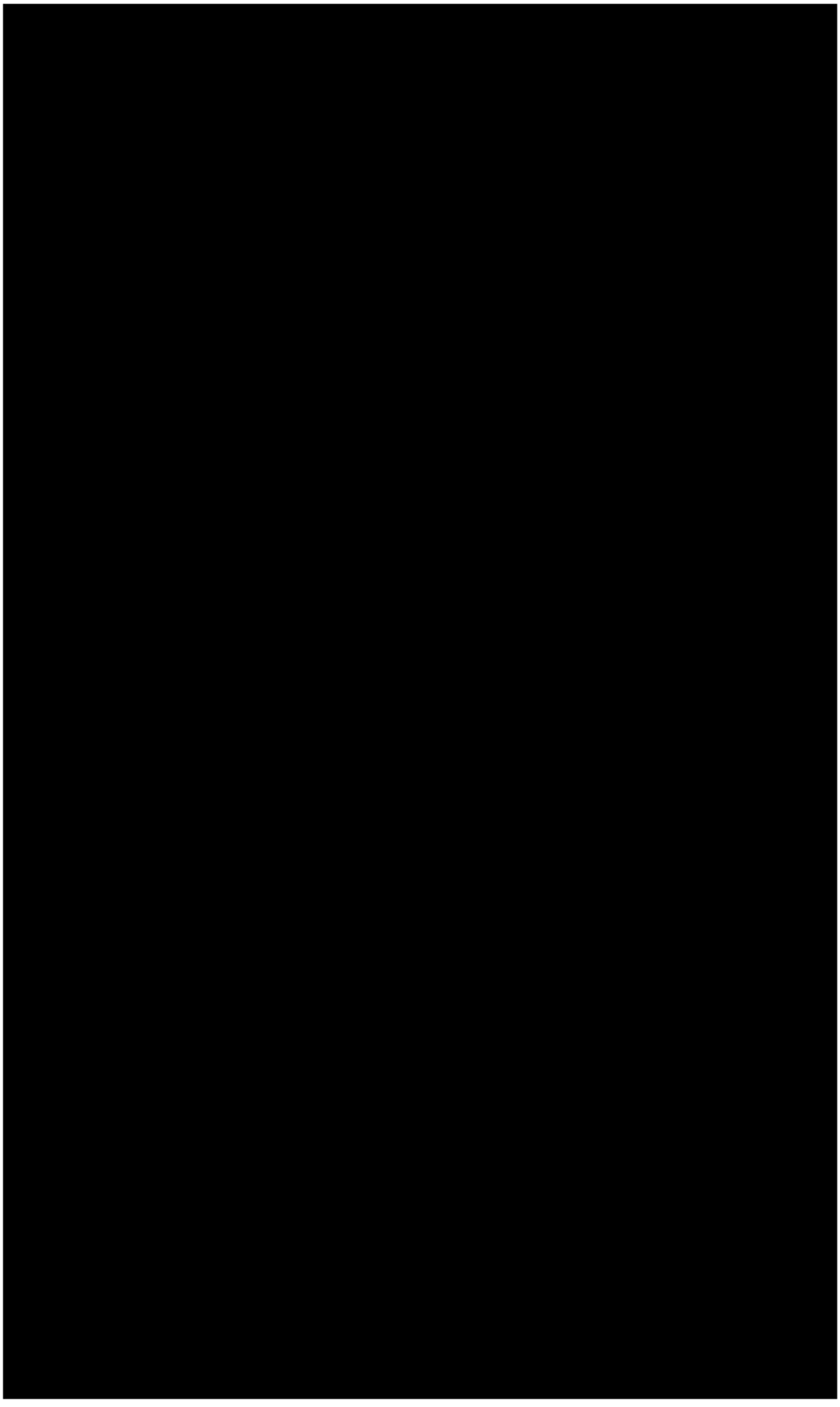


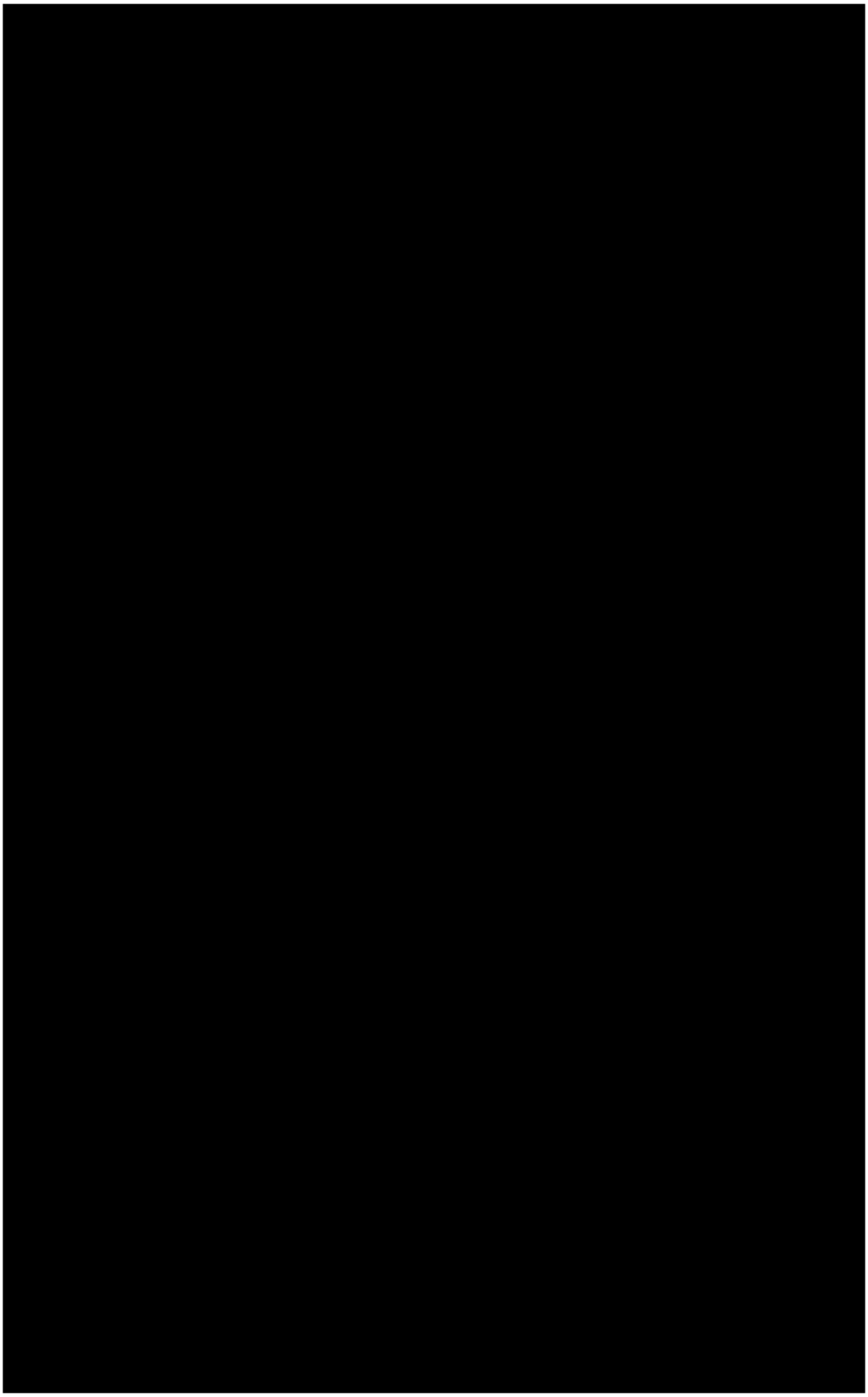


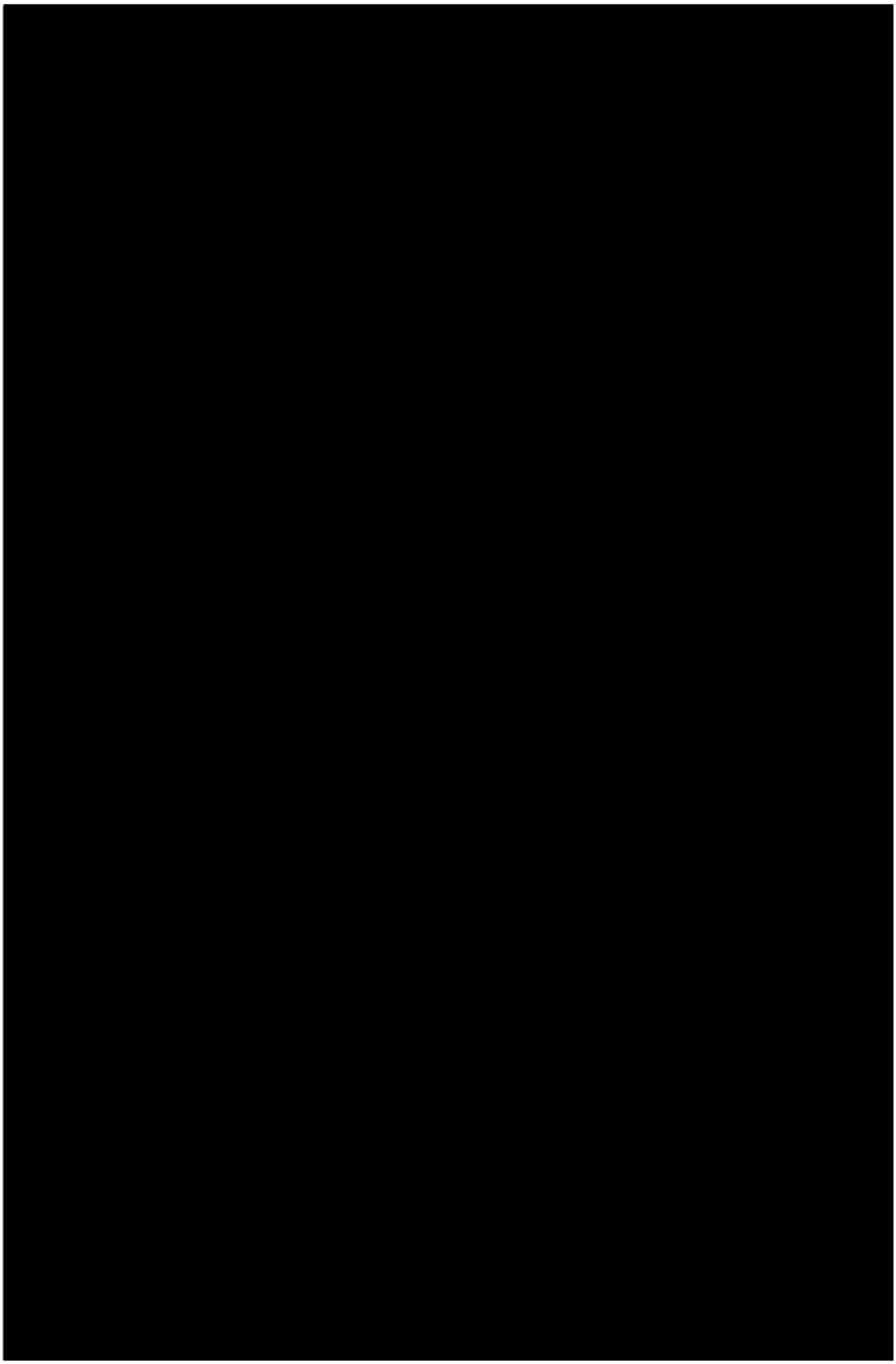


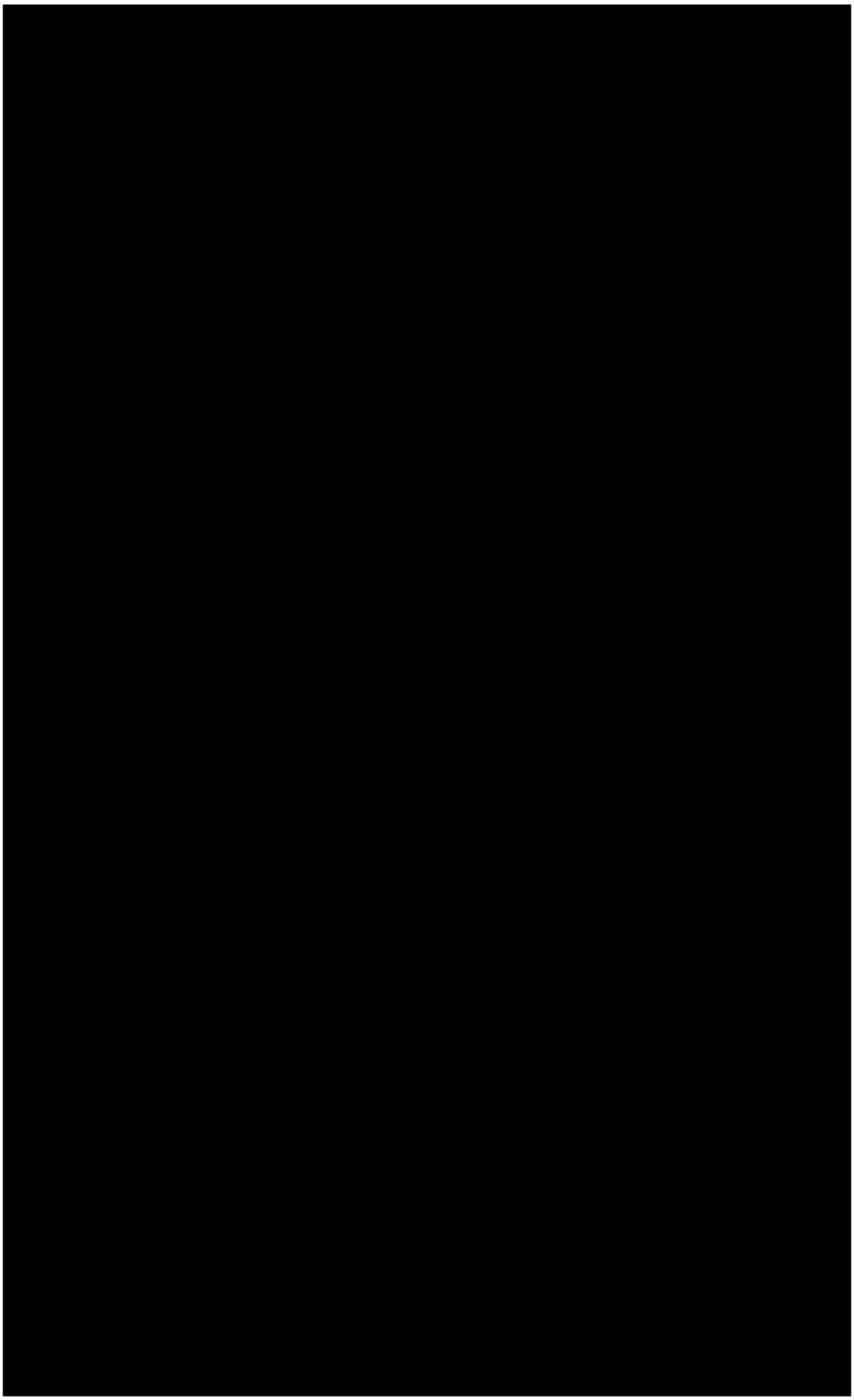


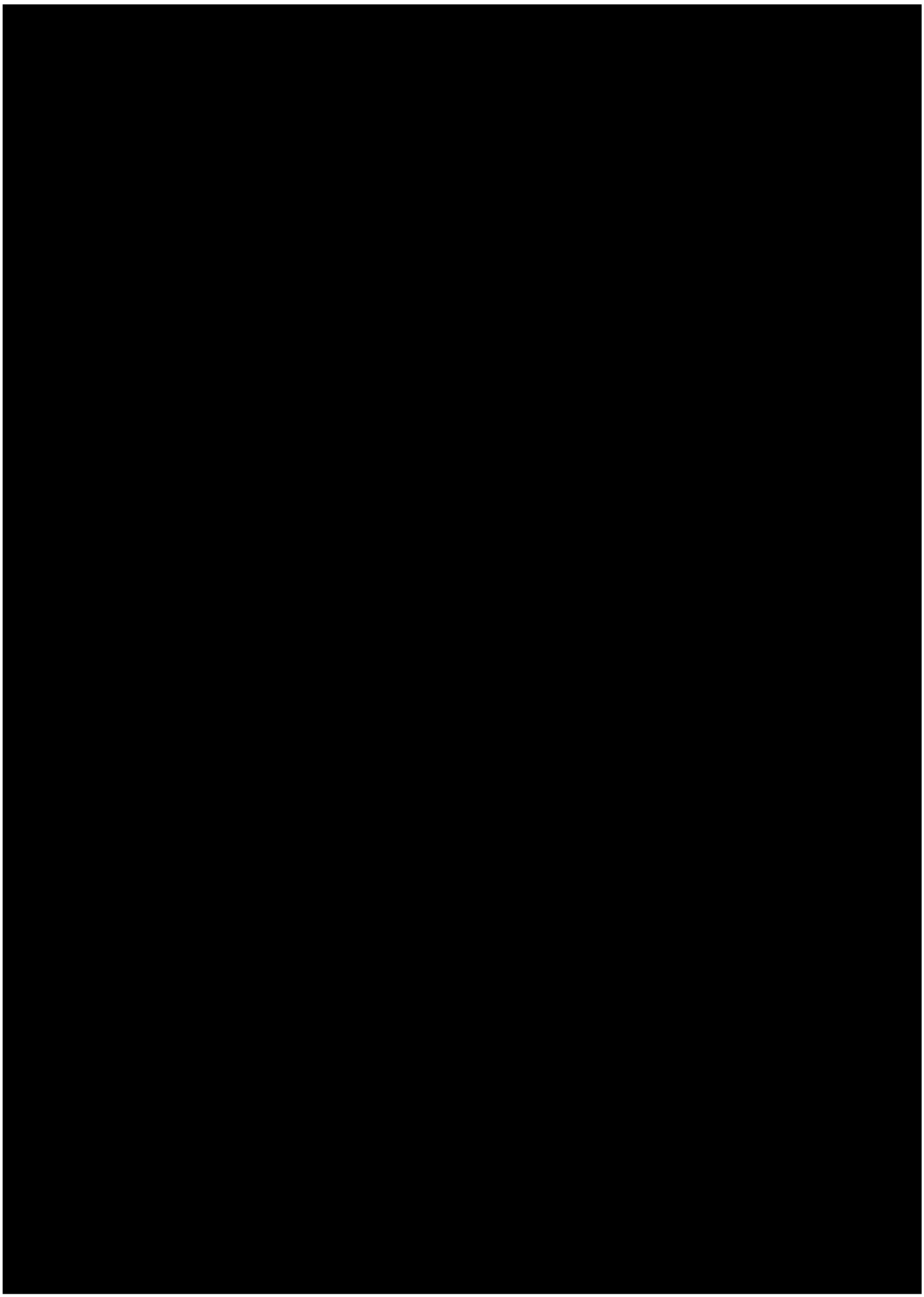


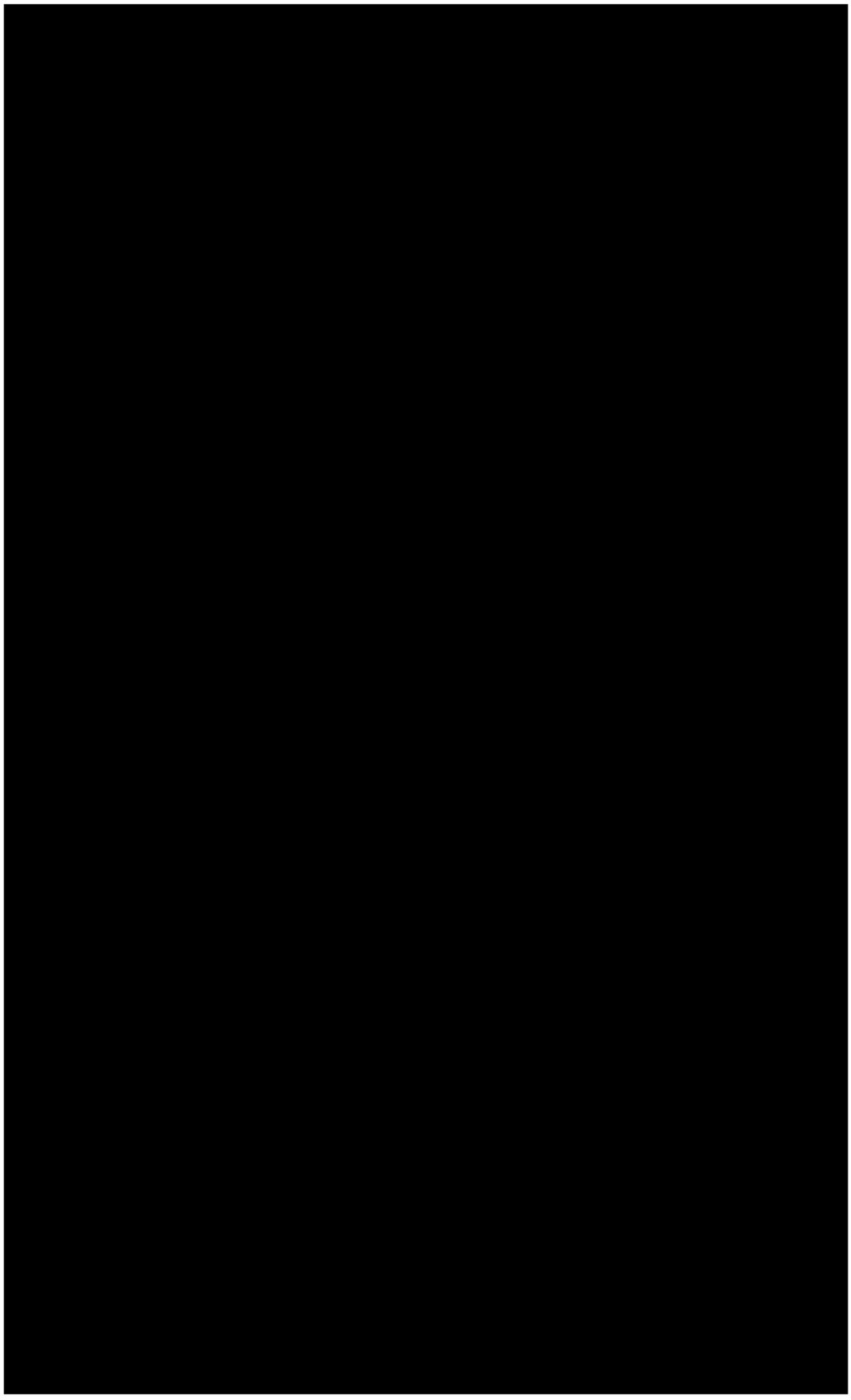


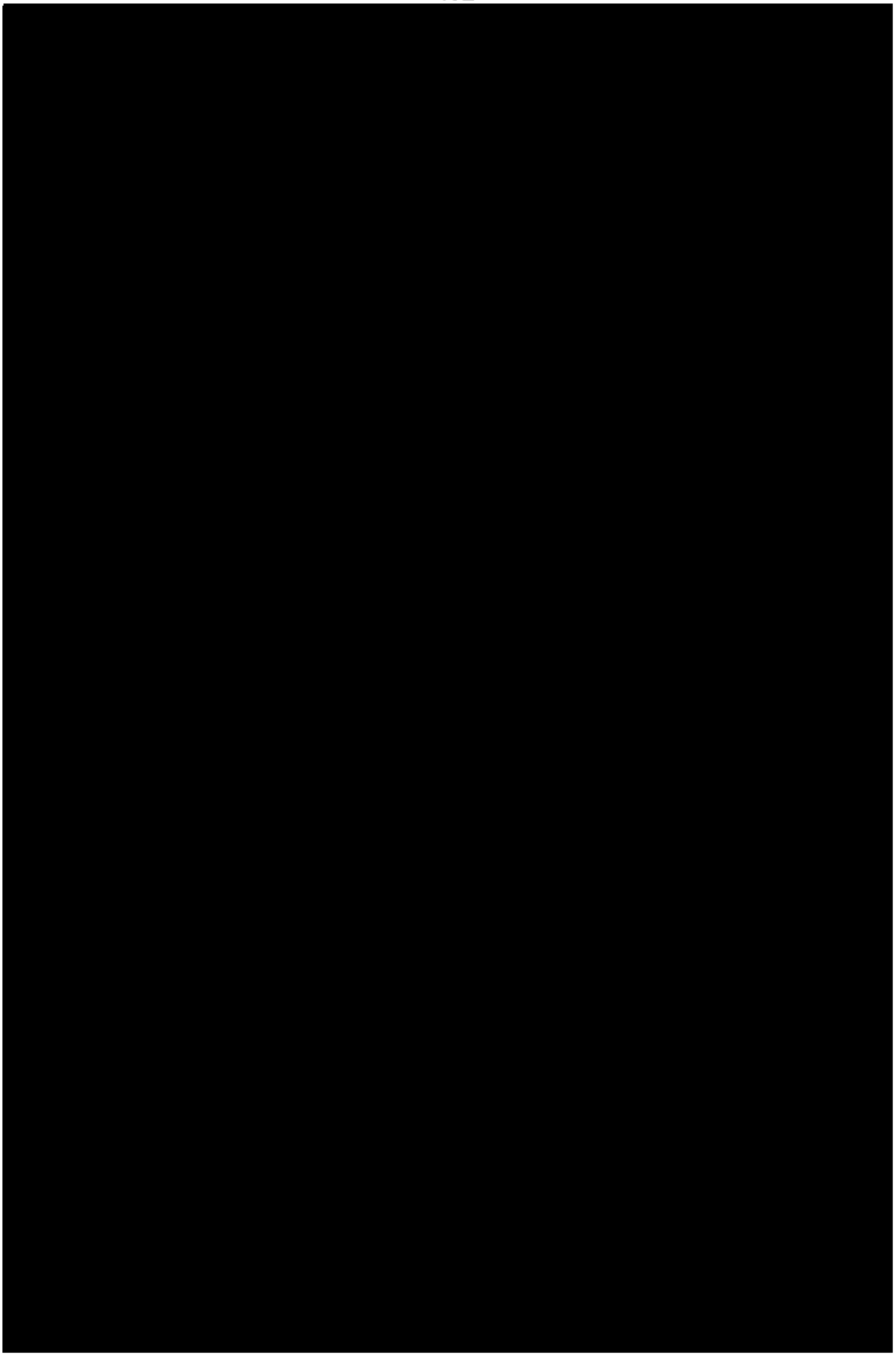


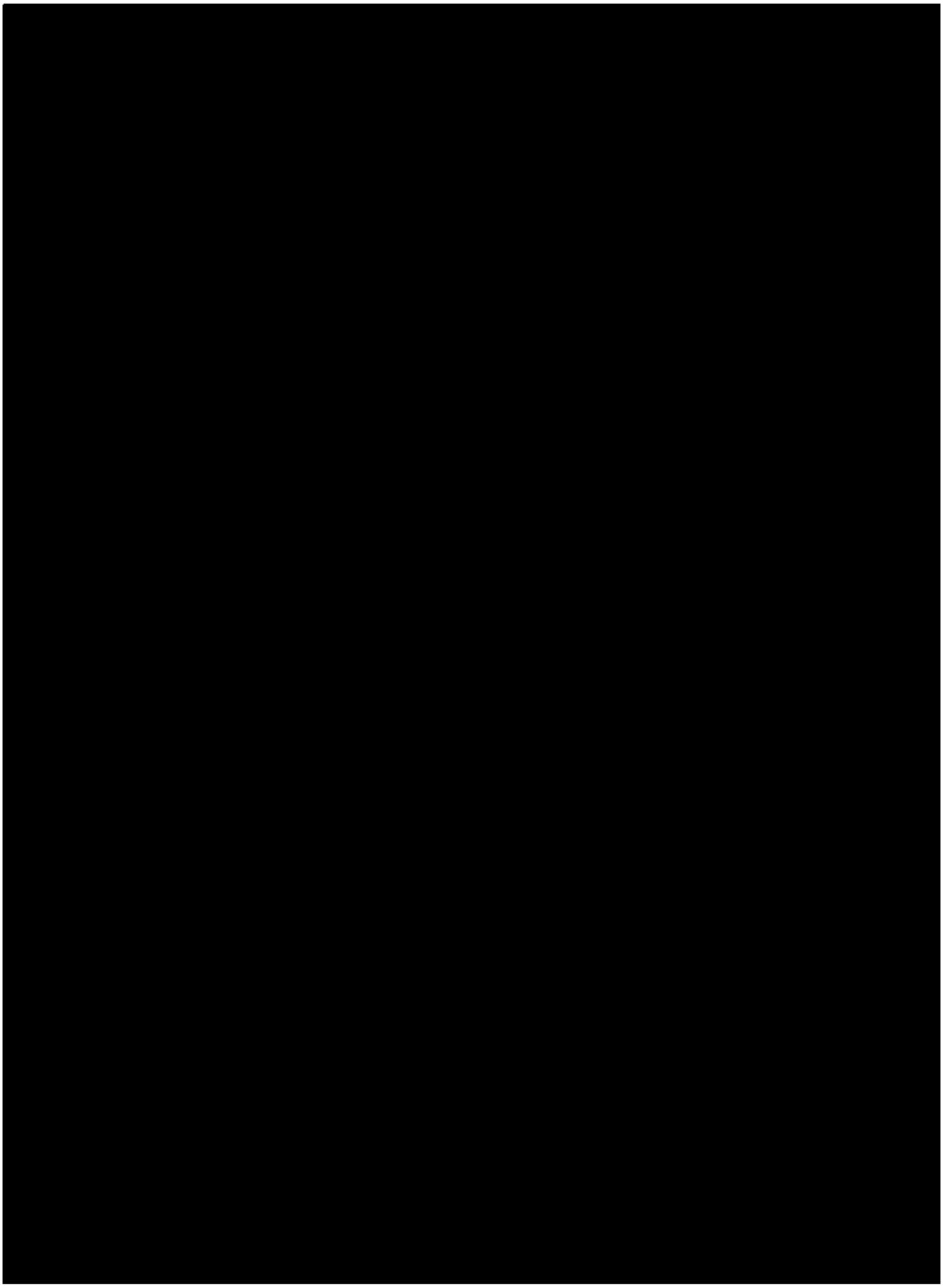


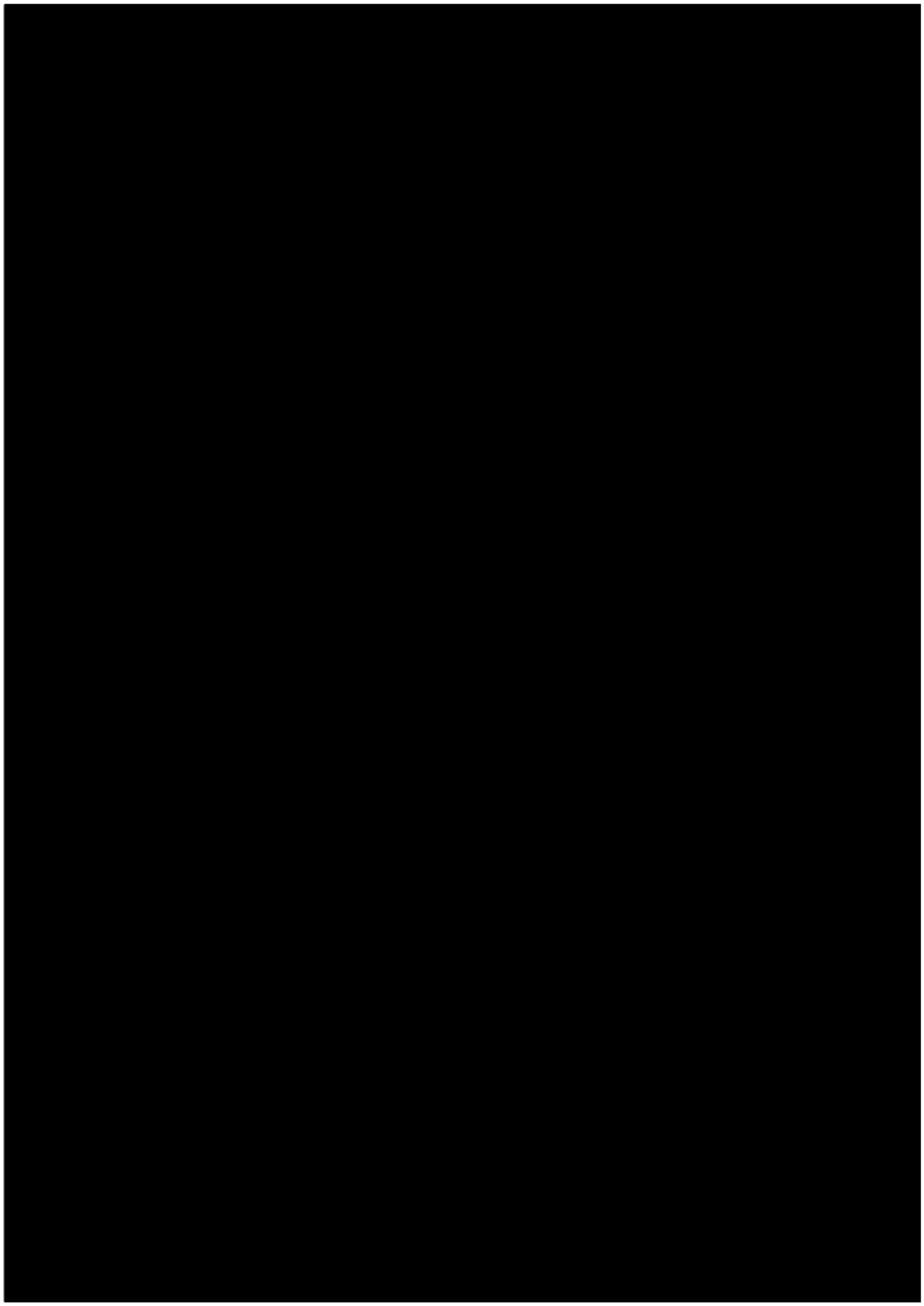


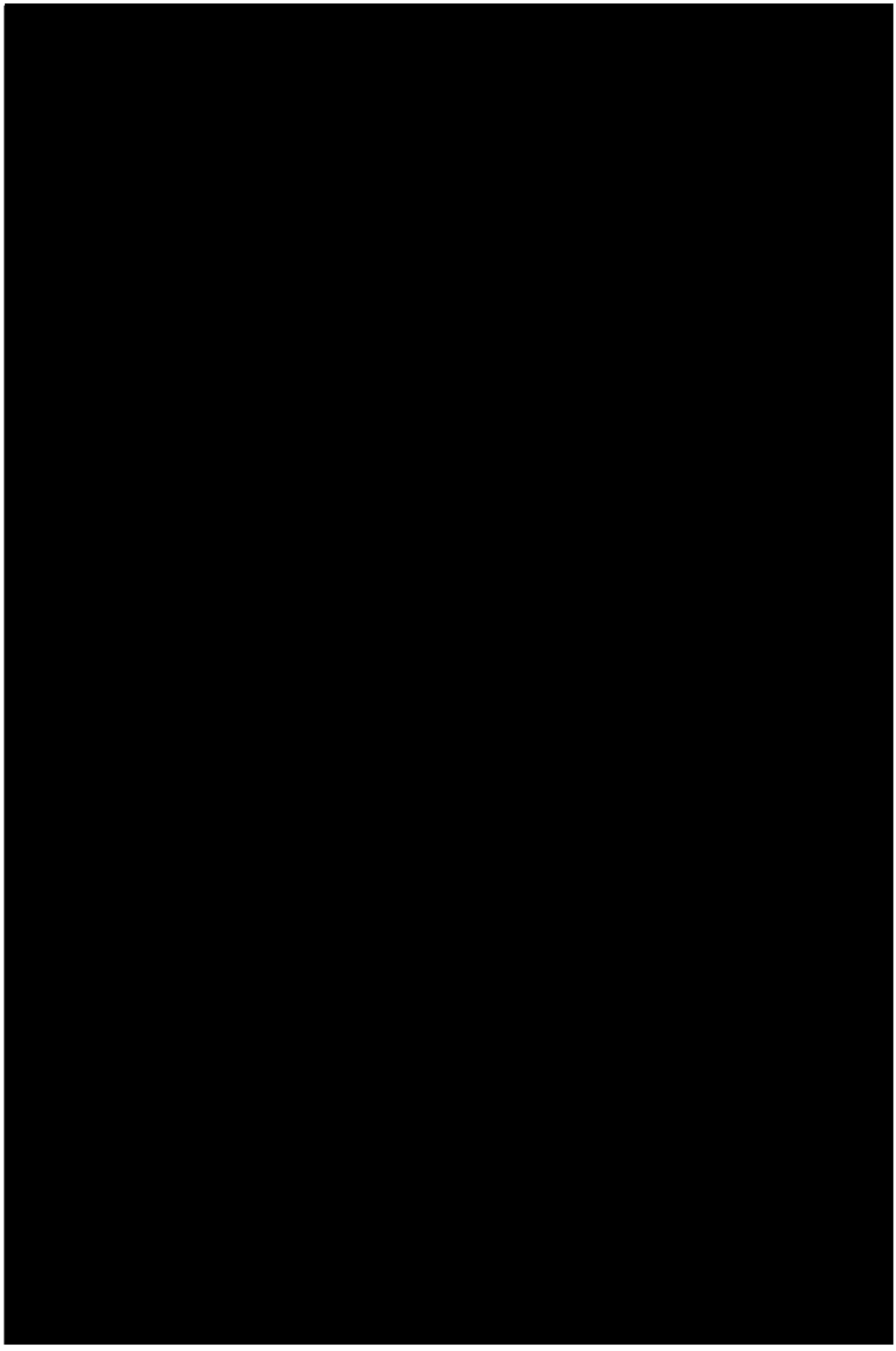


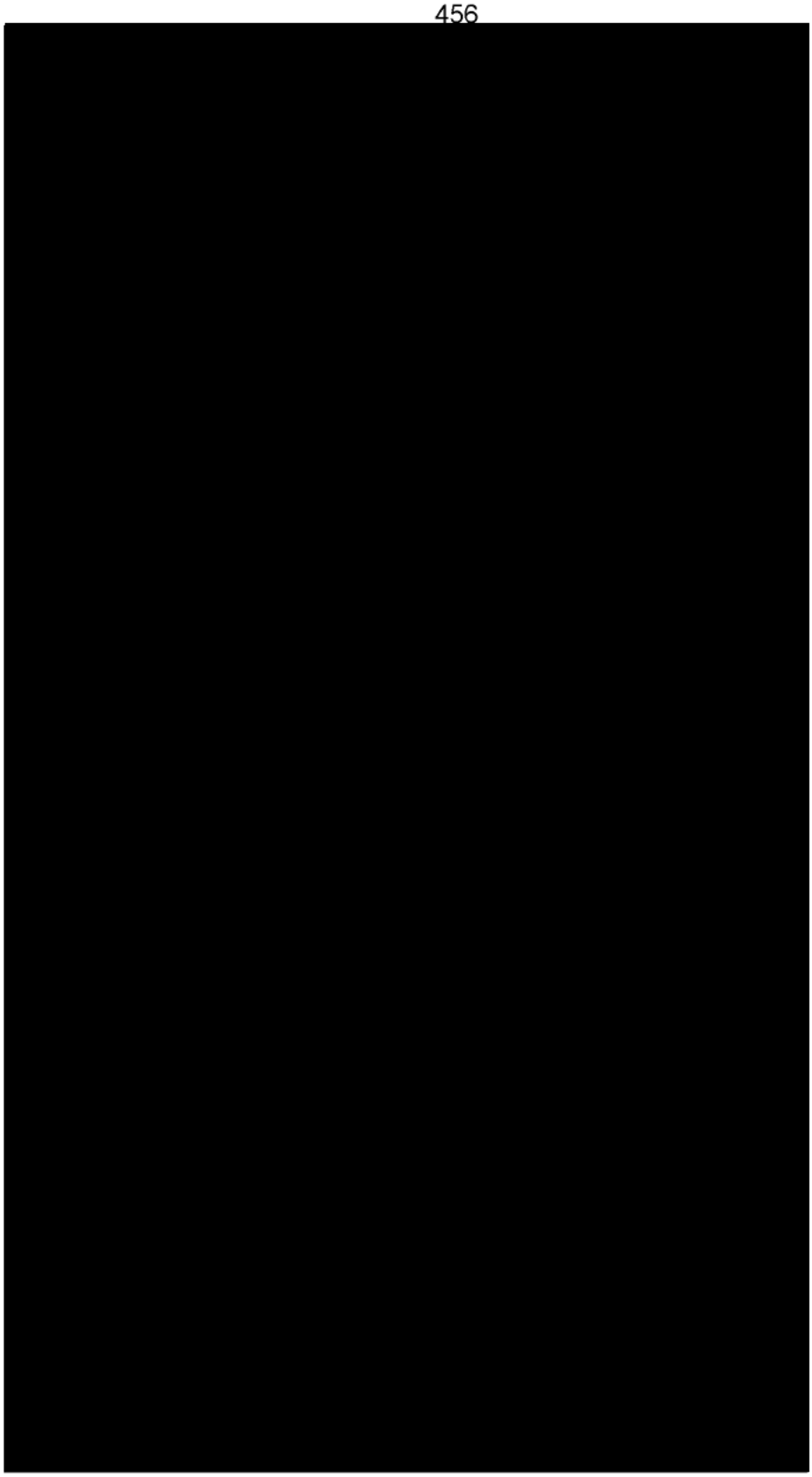


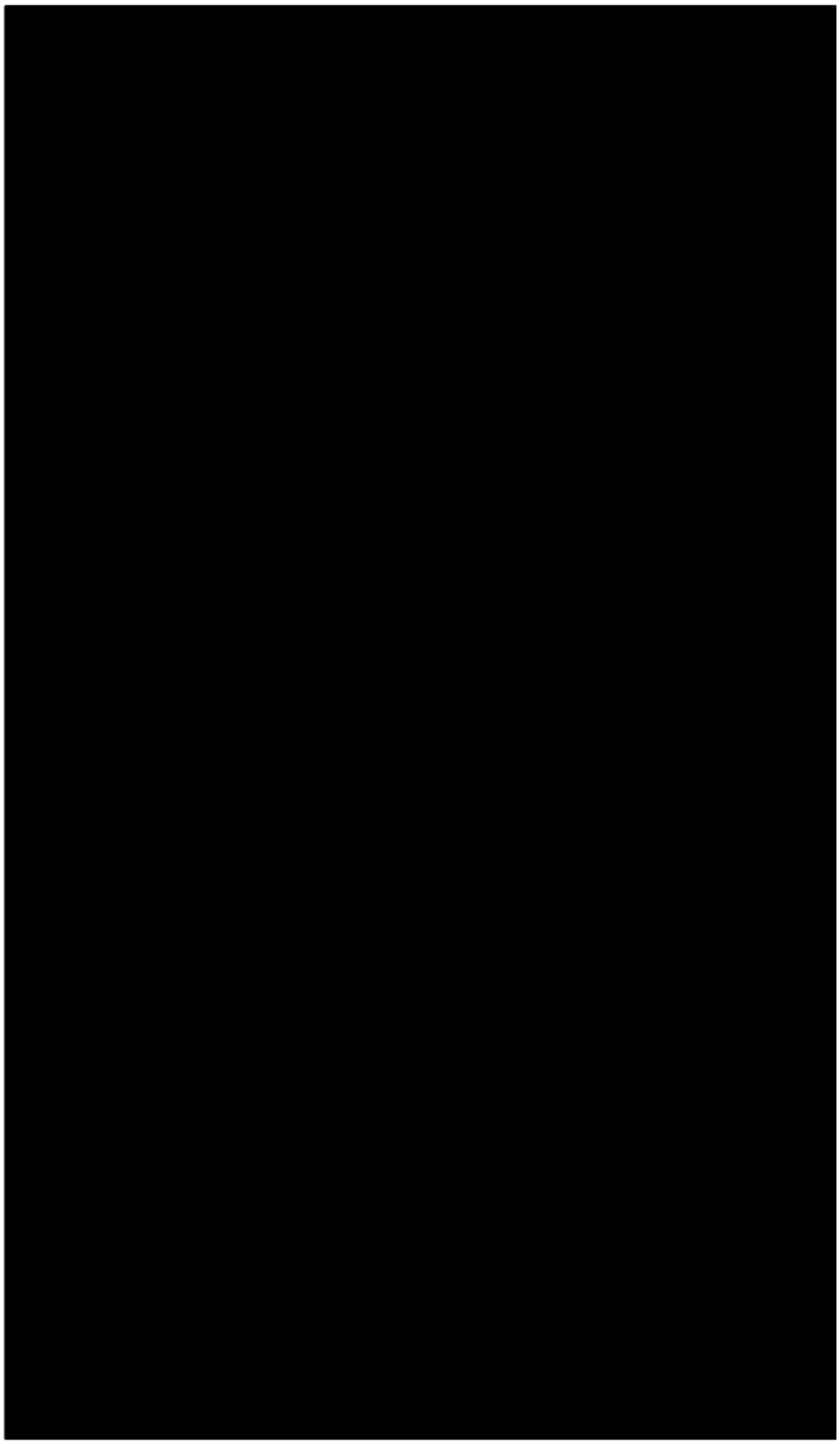


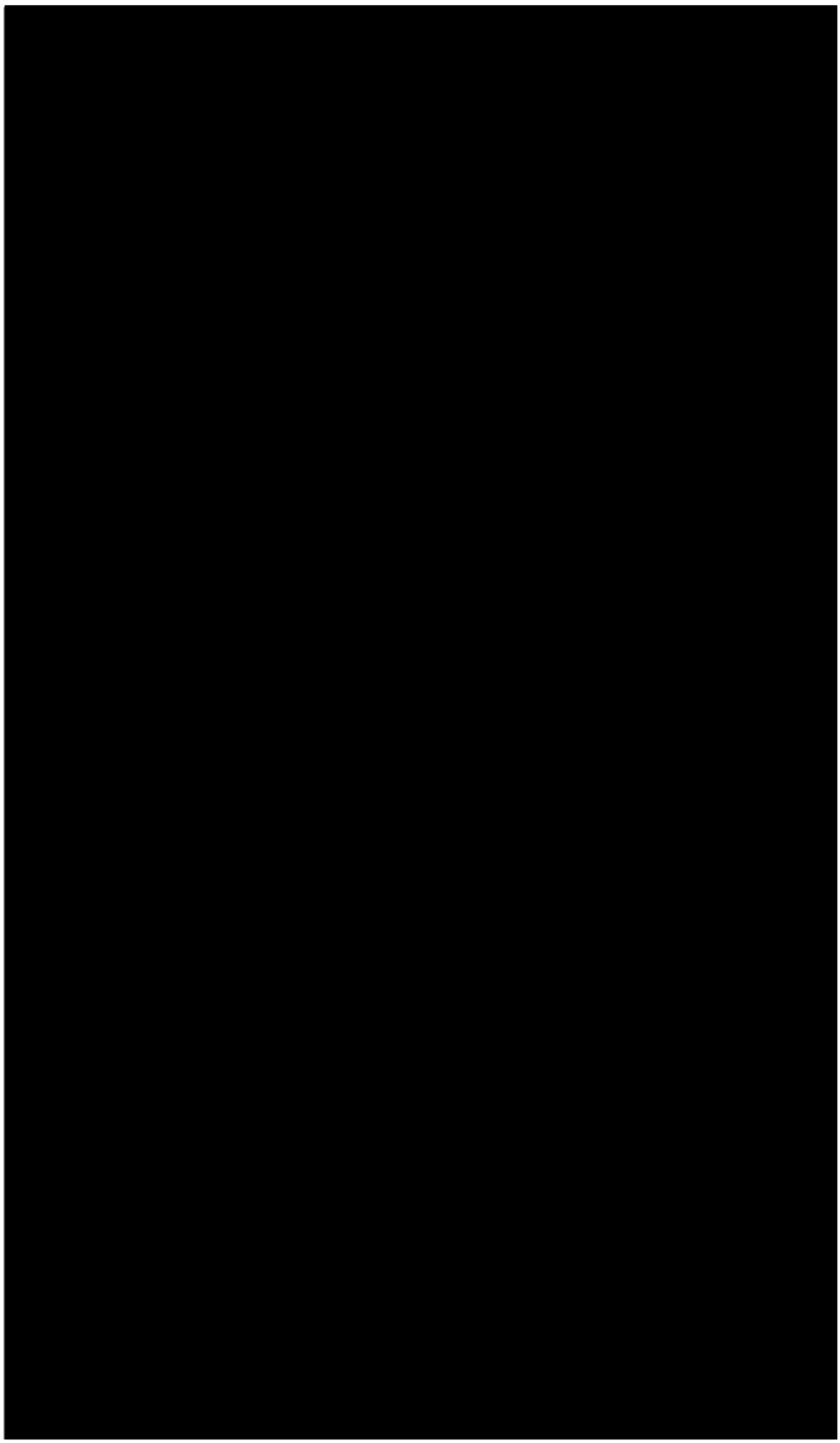


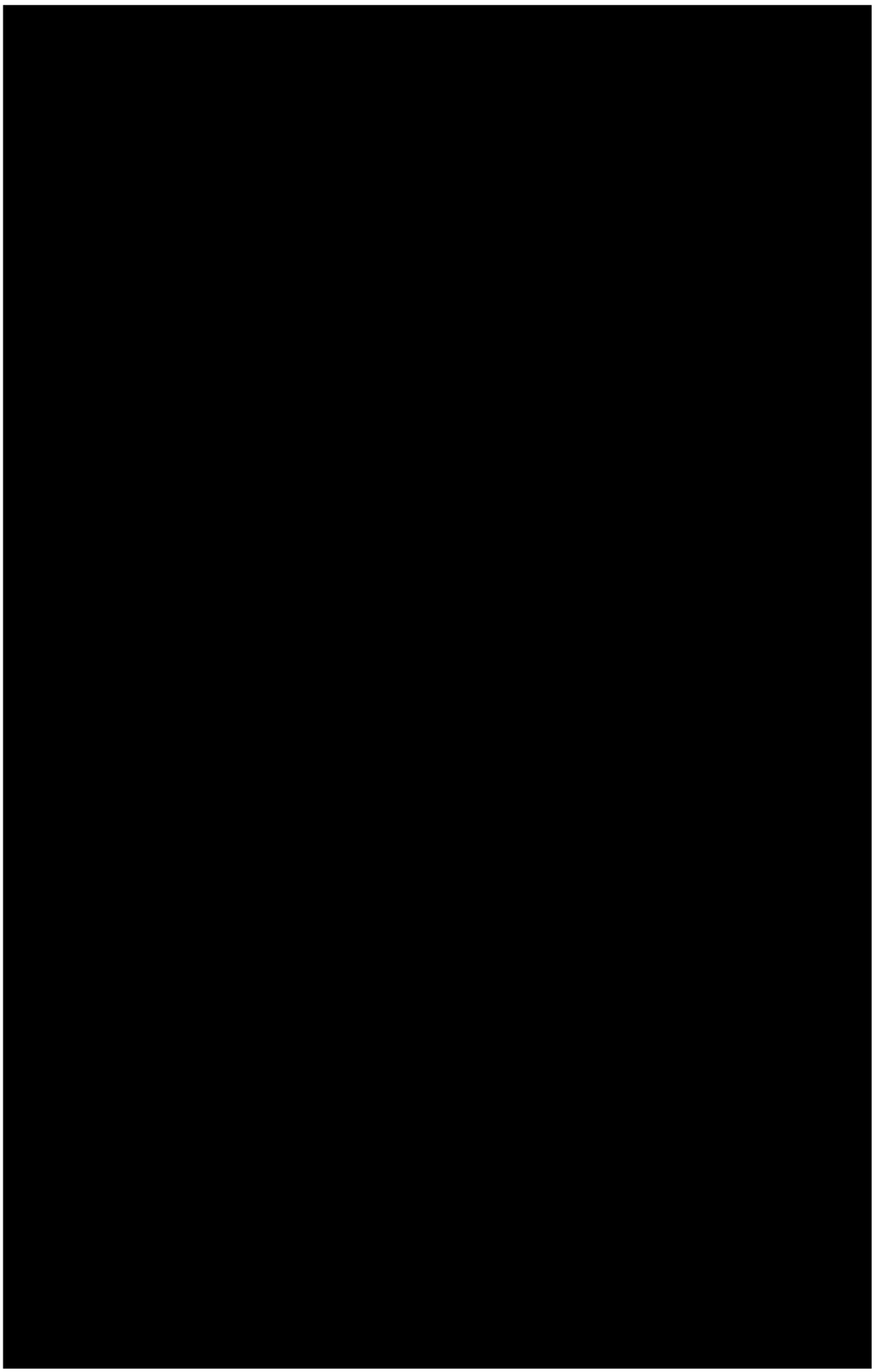


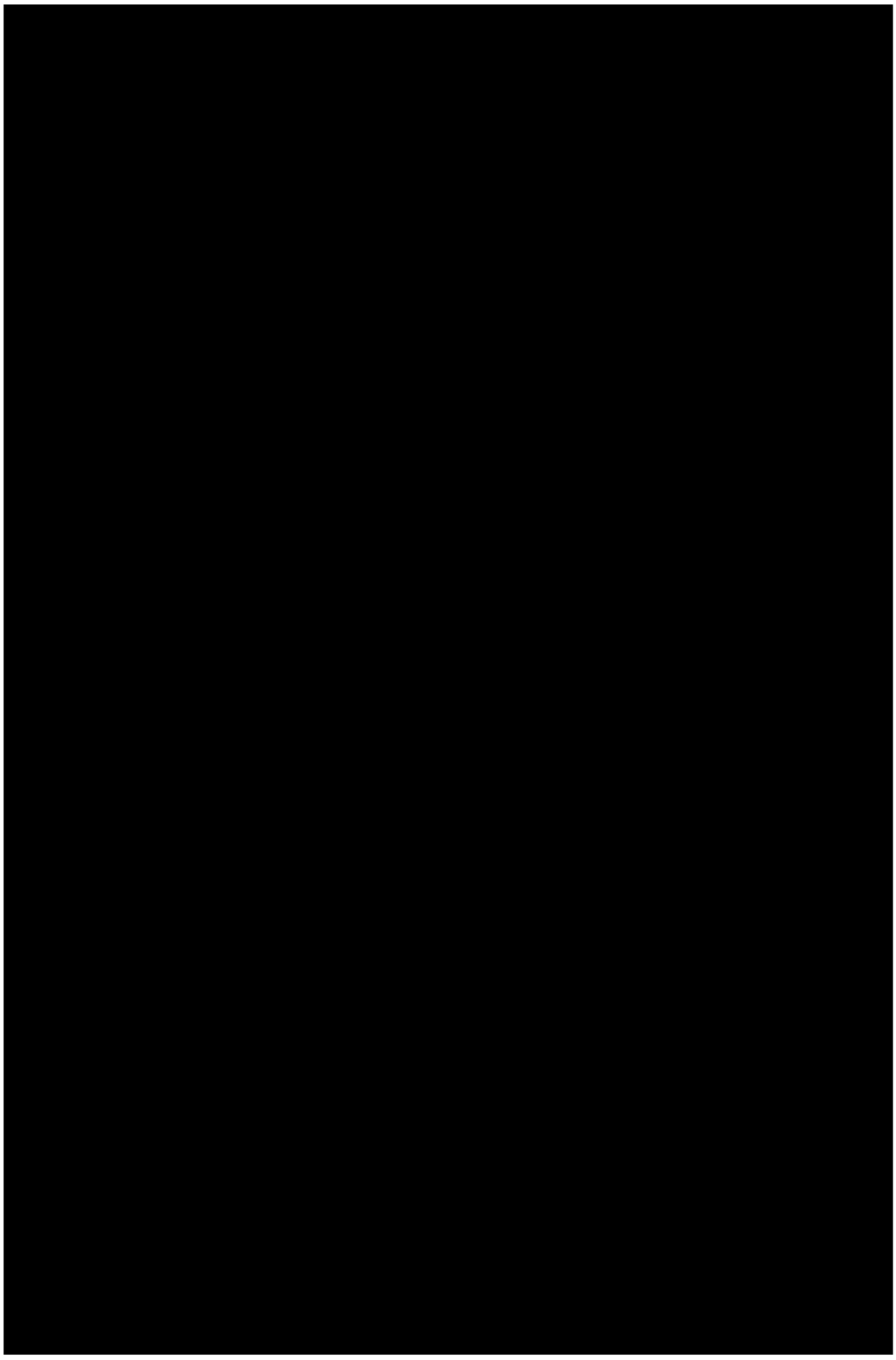


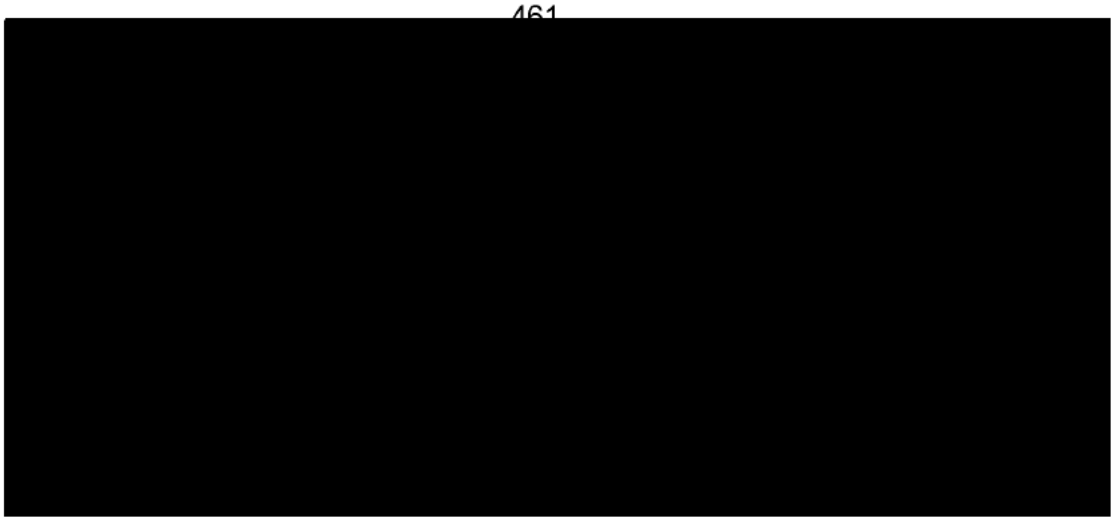












Q. Have you reviewed the Port Authority's future abatement cost estimates?

A. No, I have not.

Q. Have you seen any plans regarding abatement areas which the Port Authority has mapped out for potential -- strike that.

Have you seen any future cost abatement areas that the Port Authority has designed in connection with this litigation?

A. I think I can safely say no, because I don't understand what you are referring to.

Q. Have you seen any drawings that identify areas in a building which the Port Authority designated as an abatement area to be abated in the future in connection with this litigation?

A. Again, no, I haven't.

Q. Have you assisted the Port Authority in developing any operations and maintenance plans or procedures?

A. No, I don't think so.

Q. Have you done, in this case, any analysis, similar to the one you had done in the [redacted] concerning what you referred to there as associated costs?

A. No, I have not.

Q. Do you anticipate giving any opinions in this case that specifically pertain to damages?

A. As far as actual cost estimates and this type of thing? No.

Q. I take it then you have not made a study of the Port Authority's overall expenditures regarding asbestos; is that correct?

A. That is correct.

Q. And, you have not been asked to do any financial analysis in this case; is that correct?

A. That is correct.

Q. Do you anticipate doing either of those things in this case?

A. No, I do not.

Q. You have mentioned earlier that it was your belief or you characterized the Rich Lee

pulverization experiment as ridiculous. Why do you believe that or why did you characterize it as such?

A. Well, the whole issue of is Mon-kote-3 friable or not or can it release fibers, is to me is just ridiculous. There must be tens of thousands of samples taken from abatement projects abating this product. And we know full well that it causes exposure.

And if W. R. Grace truly believes it cannot release respirable fibers from that product, then I think they are obligated to go to OSHA with that data and declare that under the new OSHA standard, which they are certainly allowed to do, and that way we never have to worry about it anymore.

If a manufacturer provides that certification, then what are we all doing here if that is really true. I mean, to me it is crazy.

Q. Many people have asked some of the same questions.

Is it your understanding that the Rich Lee pulverization tape shows release of no fibers?

A. I don't know what it shows, to be quite frank with you. I don't even understand the purpose

of it.

Q. Your characterization then of it was based on what you just described?

A. I mean, I have seen results, asked to look at this, and if you have a copy, I will be glad to look at it with you again, but it has been a while, and I don't recall the numbers as we sit here.

Yes, there were some structures found, as I understand it. Yet at the same time I read this stuff that there are no respirable fibers can be released from this product. Well, if that is true, then what is the whole point of us being here.

Q. Where have you read that?

A. Well, that is what I read in Dr. Lee's report in a different case. I don't know if it is appropriate for me to cite that here.

Q. Do you recall what case it was?

A. In the Prudential case.

Q. And that was your understanding of his report in that case?

A. Well, that is what I read.

MR. NICYPER: Why don't we go ahead and take a break.

(A recess was taken.)

(Ewing Exhibits 29 through 33 were marked for identification.)

Q. (By Mr. Nicyper) Mr. Ewing, let me show

you a document which I have marked as Exhibit 29. This is an August 6, 1993 letter from Archibald Cox to David Ziegler. This is a document you provided to us today at the deposition; is that correct?

A. It is the same document. I think I provided a different one. But, it is the same document.

MR. JEKEL: Off the record.

(Discussion ensued off the record.)

Q. (By Mr. Nicyper) But in any event, this is the document referred to in Item 17 of your reliance materials; is that correct?

A. Yes, it is.

Q. Let me show you documents that have been marked as Exhibit 30, which is a one-page letter from William Ewing to Donna Austin dated June 19, 1996 enclosing two notebooks. That is a letter you sent regarding notebooks you had pertaining to your anticipated testimony in this case; is that correct?

A. Yes, that is right.

Q. And, that is a document that you provided to us during this deposition from your files; is

that correct?

A. Yes.

Q. Let me show you a document that I have

asked the court reporter to mark as Exhibit 31. This is a multiple page document, refers to -- let me ask you what it refers to?

A. The New York State regulations for asbestos.

Q. And, this is the document you produced from your files; is that correct?

A. Yes.

Q. Let me show you a document marked as Exhibit 32, which I believe also is produced from your files, and this is titled Asbestos Regulation in New York State by the New York State Department of Health and New York State Department of Labor, and this attaches a regulation; is that correct?

A. Exhibit Number 32 is actually a summary of those regulations, yes.

Q. And, that was produced from your files; is that correct?

A. Yes.

Q. And finally, let me show you what we have marked as Exhibit 2, this is the first few pages of a text you provided to us from your files titled The

Official Compilation of the Rules of the City of New York, Volume 5, Environment, Titles 15 through 18. Do you see that?

A. This is Exhibit 32. Yes.

Q. Yes. 32 which we have marked in this deposition. And, that is the regulations you have that are the city regulations pertaining to asbestos-containing materials; is that correct?

A. That is correct. The exhibit, I think, is the cover of that book.

Q. Yes. And, that book in its entirety is your volume of New York City regulations pertaining to asbestos; is that correct?

A. That is correct.

MR. JEKEL: Just for the record, she has got two 32's, the last one should be 33. If I am reading them correctly. I am reading them upside-down.

MR. NICYPER: Thank you very much. I have no further questions.

THE WITNESS: Thank you.

EXAMINATION

BY MR. ANDERSON:

Q. Good afternoon. My name is Cal Anderson, we have spoken a few times over the last few days,

but this is the first opportunity I have had to ask you any questions.

I would like to back up for just a minute

and go back to 1994, the December 20, 1994, that was your first trip to the World Trade Center in connection with this litigation; is that correct?

A. Yes, that is correct.

Q. And, you stayed in New York for one day and left that same night; is that correct?

A. I think I came up in the morning, met Mr. Bleach at the Newark Airport, and I believe he drove me back to the airport that evening.

Q. And, Mr. Bleach took you to One World Trade Center, the 68th floor, and there you met with people from the law department and the asbestos litigation task force; is that right?

A. I met with people I said earlier. I am not sure which department they were in. I think at least one was an attorney.

Q. And that was Mr. Bialik?

A. I think that is correct. I am not sure what Mr. Serge Benjamin's role was.

Q. And what was the purpose of your getting together that day?

A. I think they wanted to meet me and talk

to me about being a witness in this litigation, or in this case. I think they had reviewed my CV and seemed to know a little bit about who I was. It

also gave me a chance to review some drawings and documents about some of the buildings.

[redacted]

A. I don't recall doing that, no.

Q. Did you observe any asbestos-containing

[redacted]

A. No, I don't think so.

Q. And did you form any opinions regarding

[redacted]

A. No.

Q. And correct me if I am wrong, but I believe that the next time you visited the World Trade Center was May 13, 1996, is that right?

A. That is correct.

Q. And did you do any work on this case between December 20, 1994, and May 13, 1996?

A. I think I reviewed some bulk sampling documents. And I am sure I talked to Mr. Bleach and probably someone from the Ness Motley firm regarding

which buildings I would go to look at, approximate size of those buildings, the accessibility of those as far as whether they are accessible at day or at night, to get an idea of what equipment to bring and how much sampling equipment, how long it would take. That is really all I recall.

(Ewing Exhibit 34 was marked for identification.)

Q. (By Mr. Anderson) Let me show you a copy of what I believe to be your field notes dated May 13, 1996, consisting of 16 pages, marked Exhibit 34 for identification. Do you recognize that?

A. Yes, these are my field notes.

Q. And I would like to go through your activities of May 13, 1996 a[redacted] and you may refer to the field notes, or anything else to refresh your recollection if need be.

The first full paragraph states that you arrived at, I take it[redacted] at 1:30 p.m., and you met with Kevin Bleach and

Danny, who is Danny Ng; is that right?

A. Yes. N G didn't come out on the copy.

Q. Keith Murphy, Serge Benjamin, and it says

also Frank and Ezra. Ezra is Ezra Bialik?

A. Yes.

Q. And who is Frank? Do you have a last name for Frank?

A. No. But Frank was helping put together the drawings, I think. I didn't know his last name.

Q. Assembling the drawings for you to look at?

A. Yes.

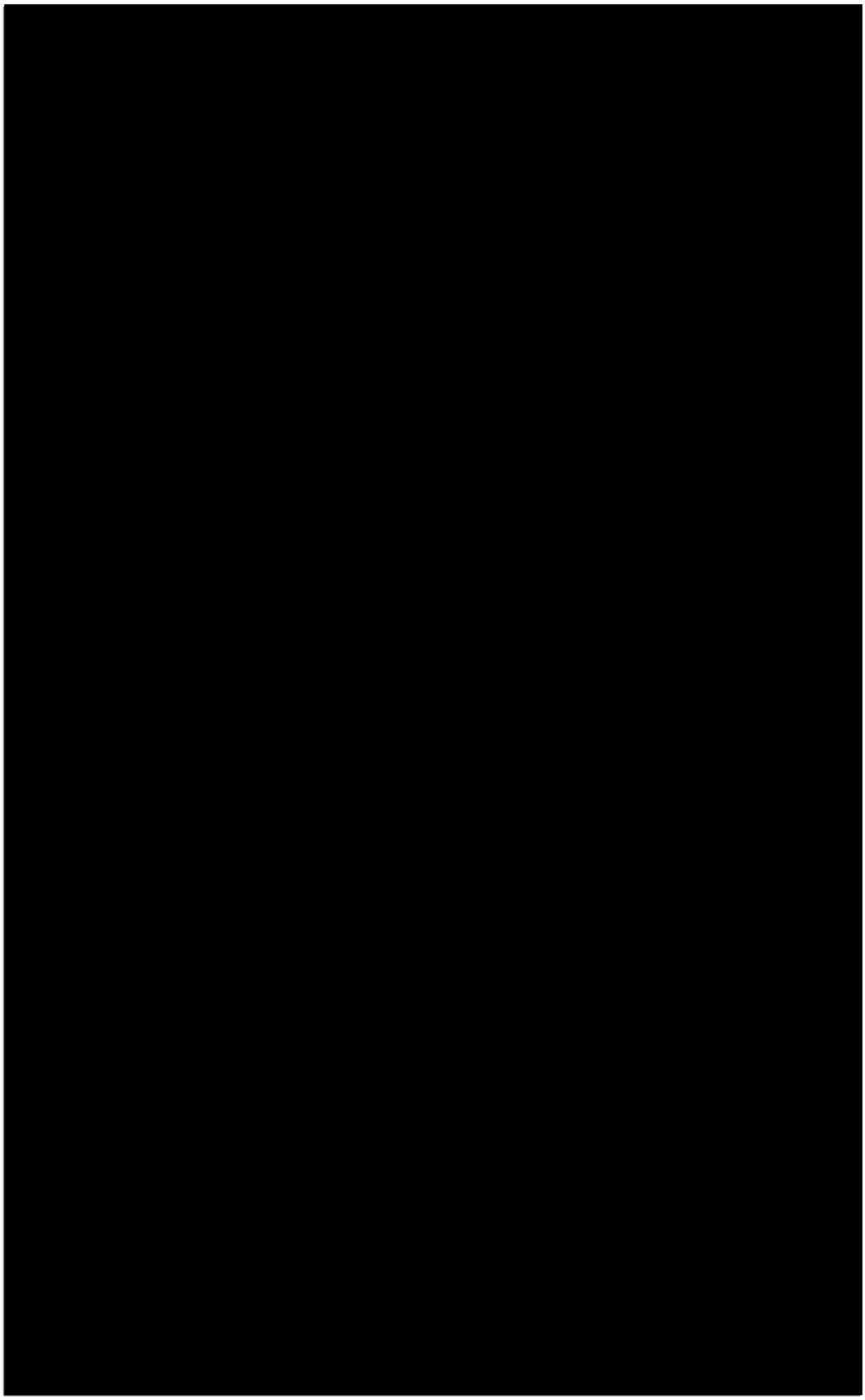
Q. And then the second full paragraph refers

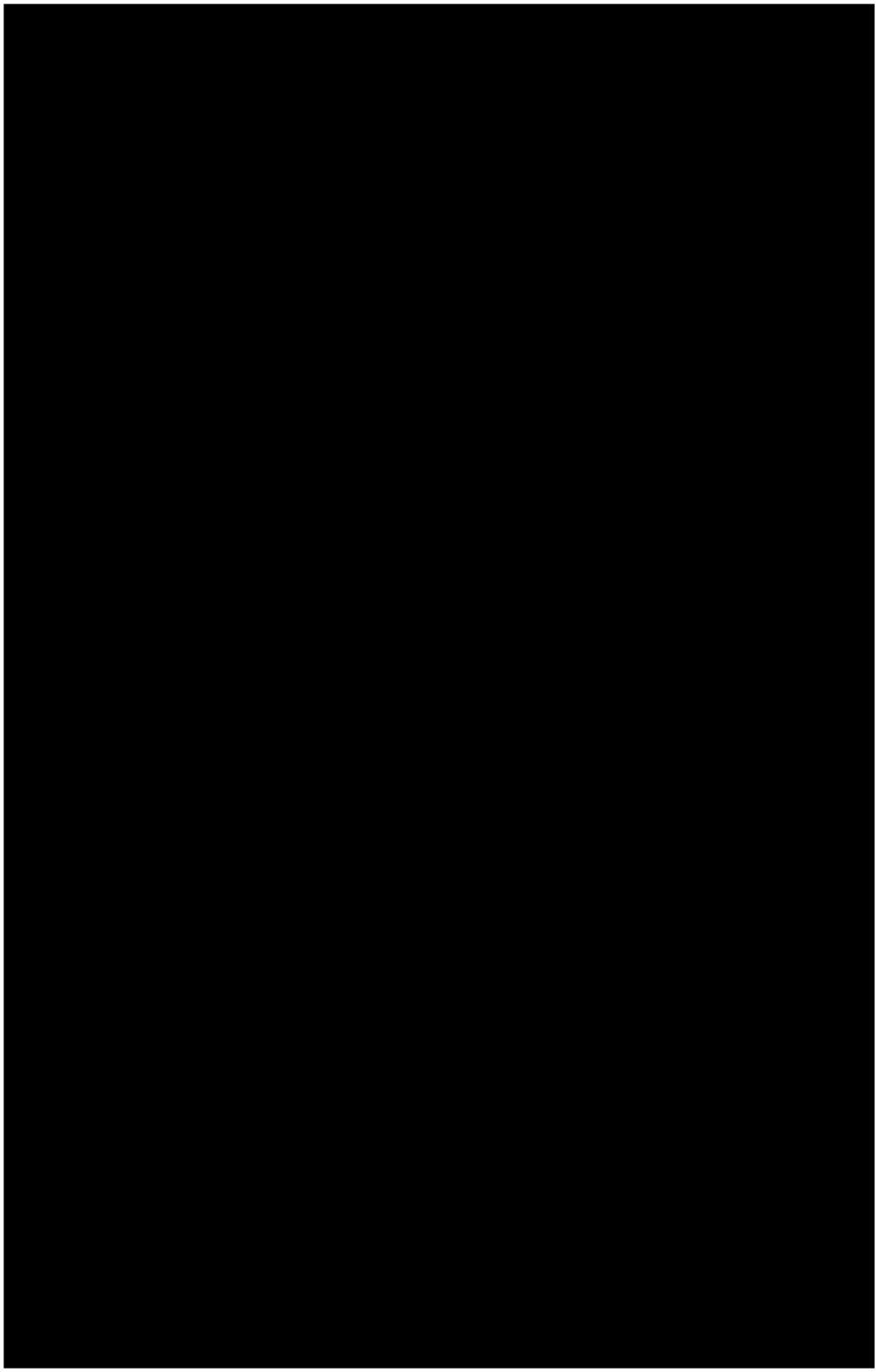
[redacted]

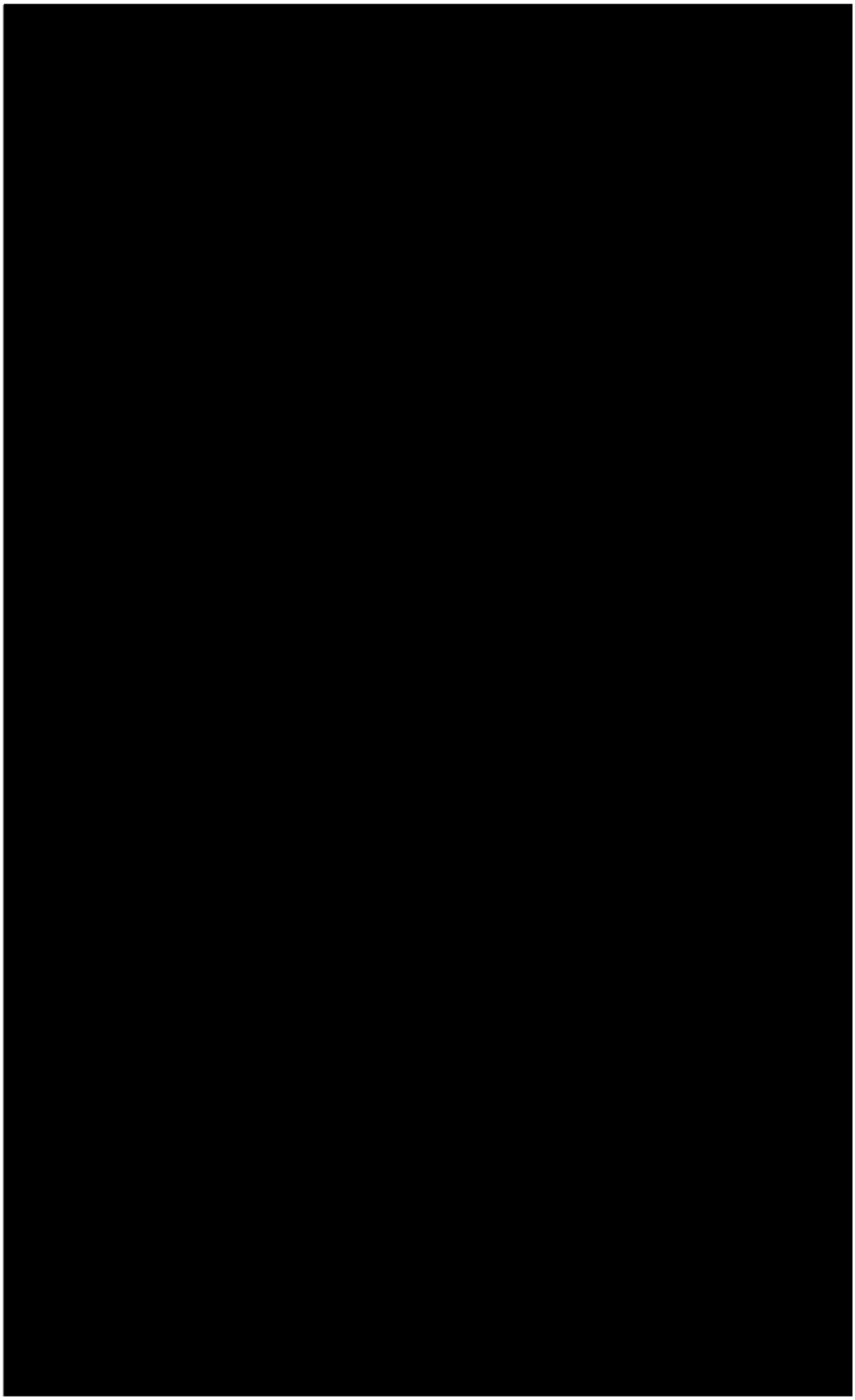
A. Yes.

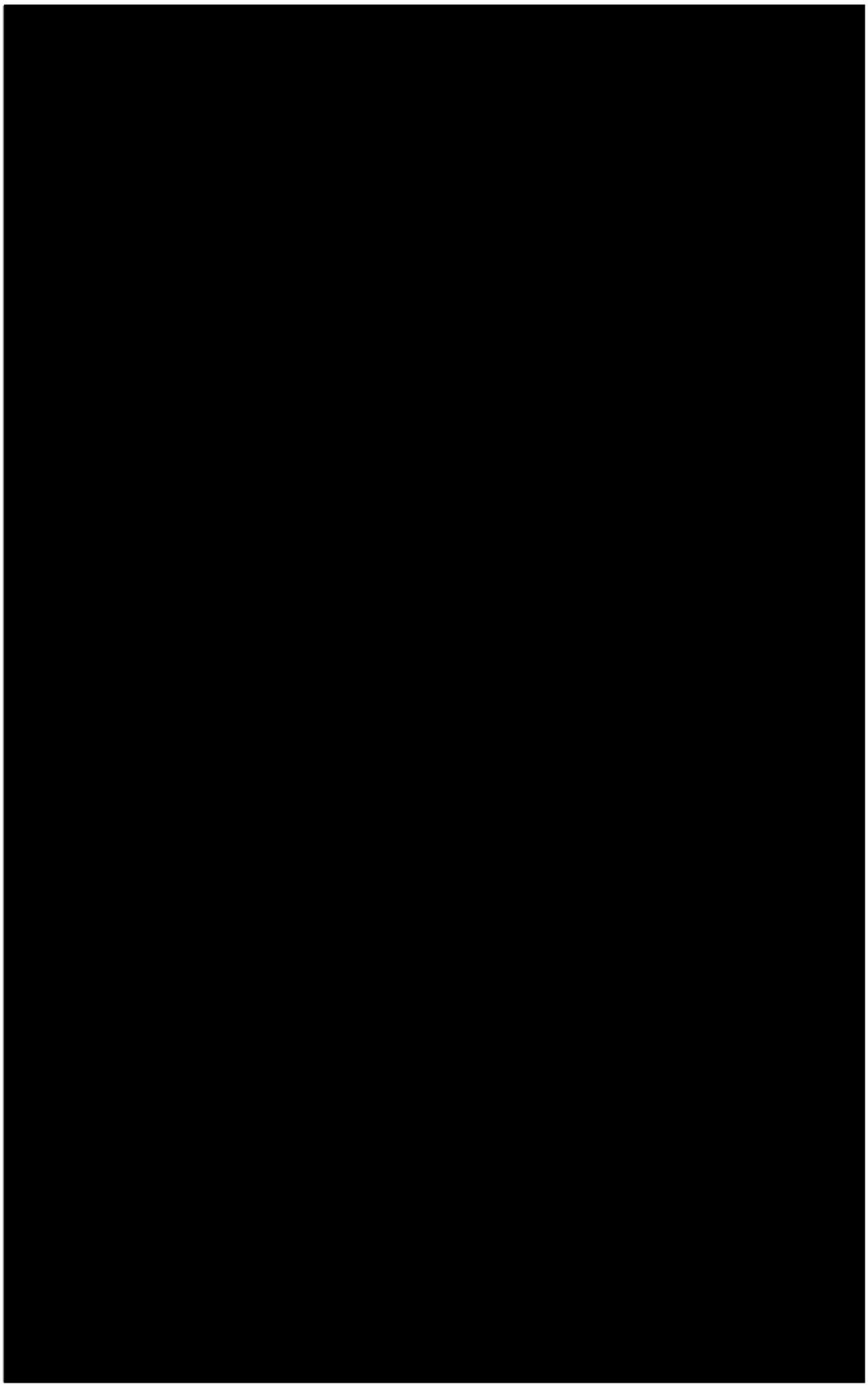
Q. Is the information contained in that paragraph something that was told to you or something that you observed yourself?

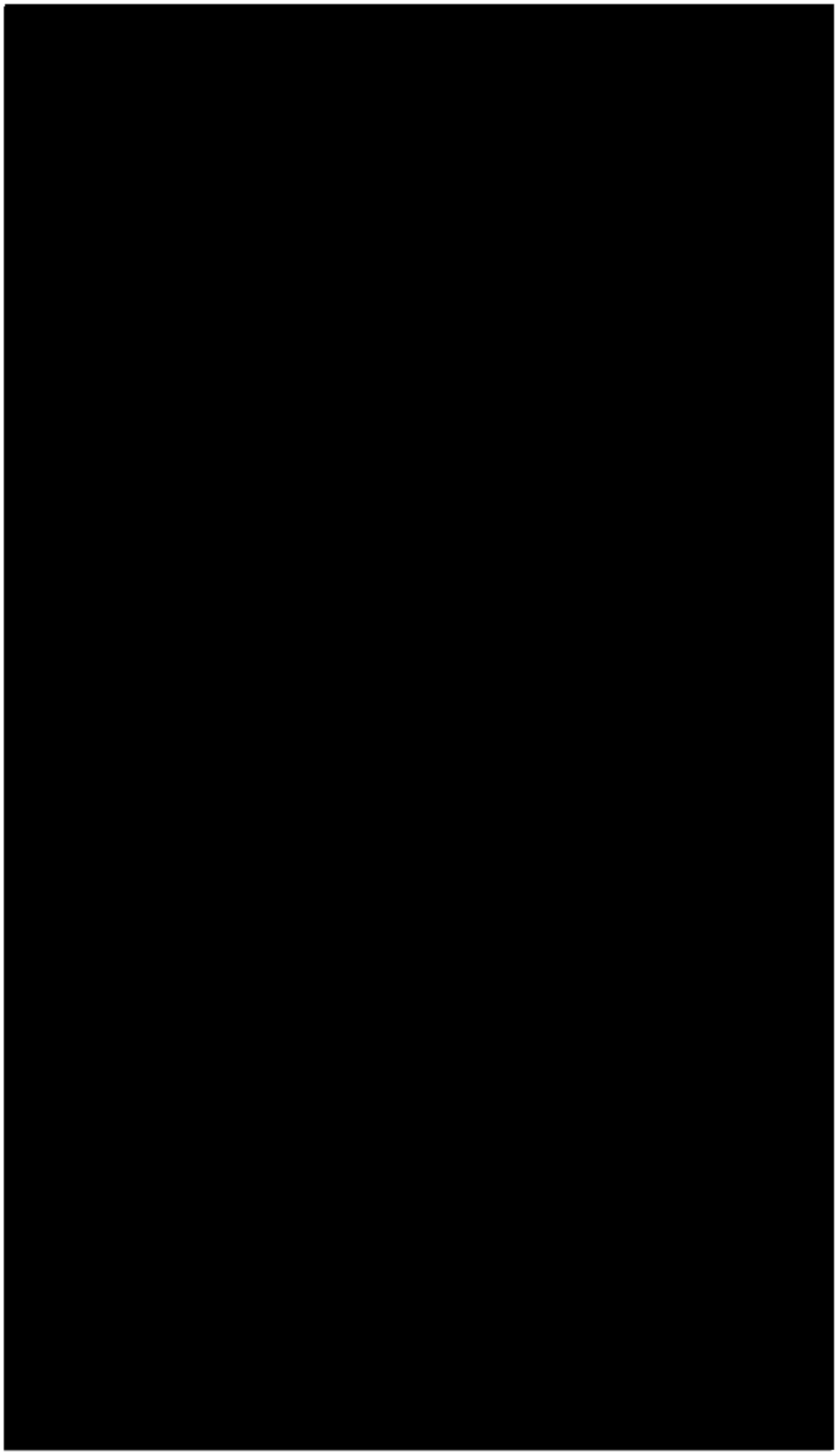
[redacted]

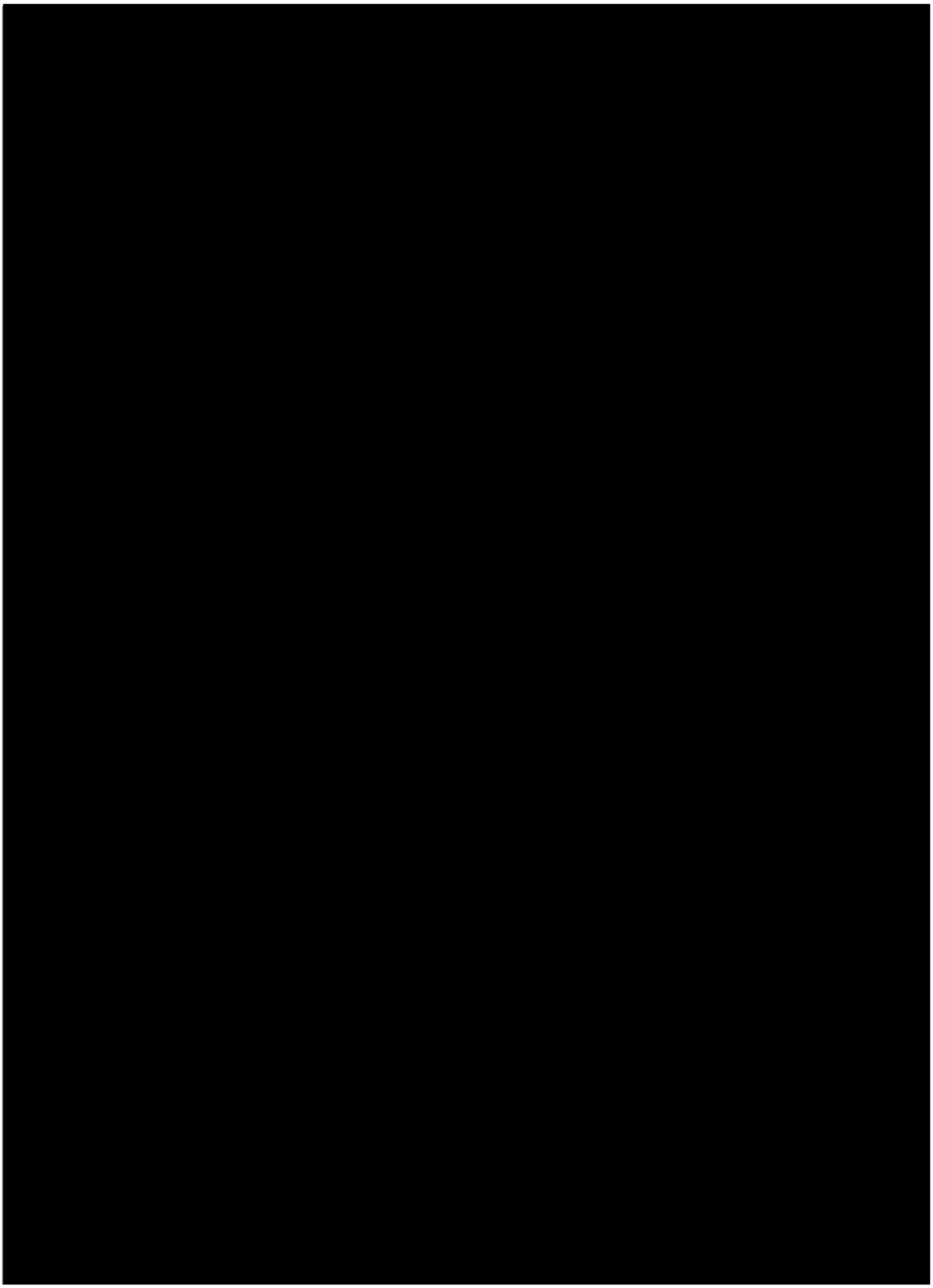


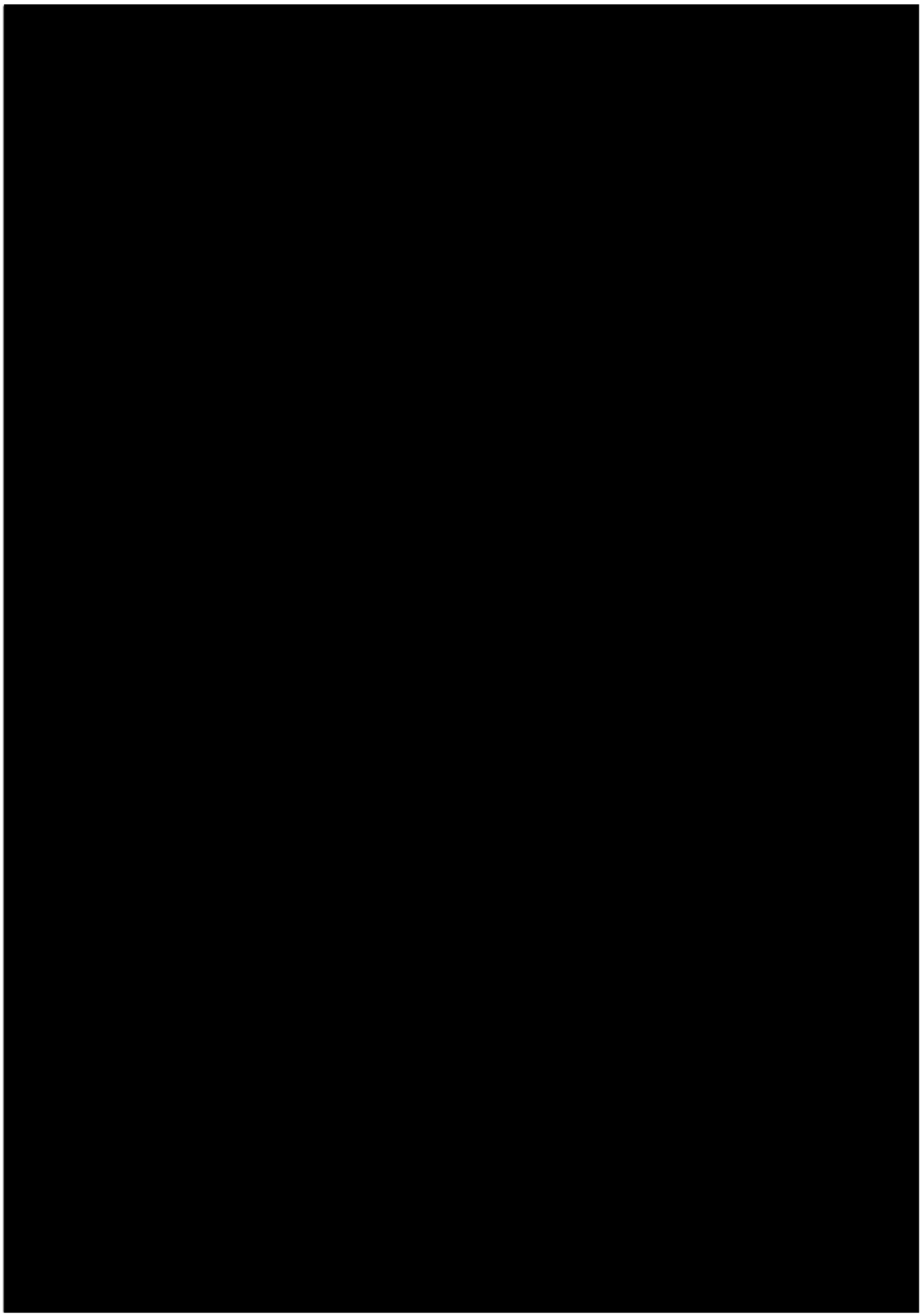


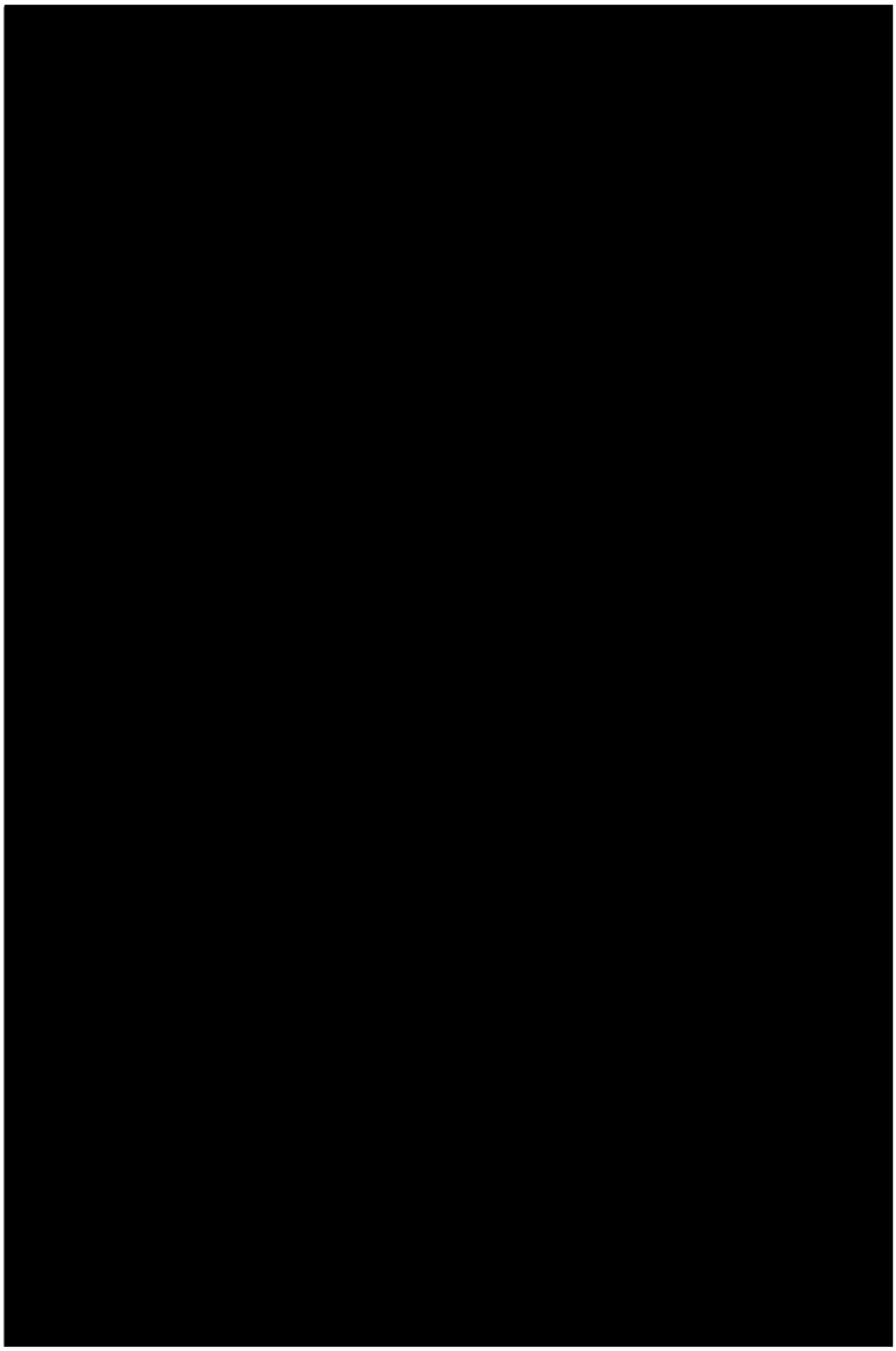


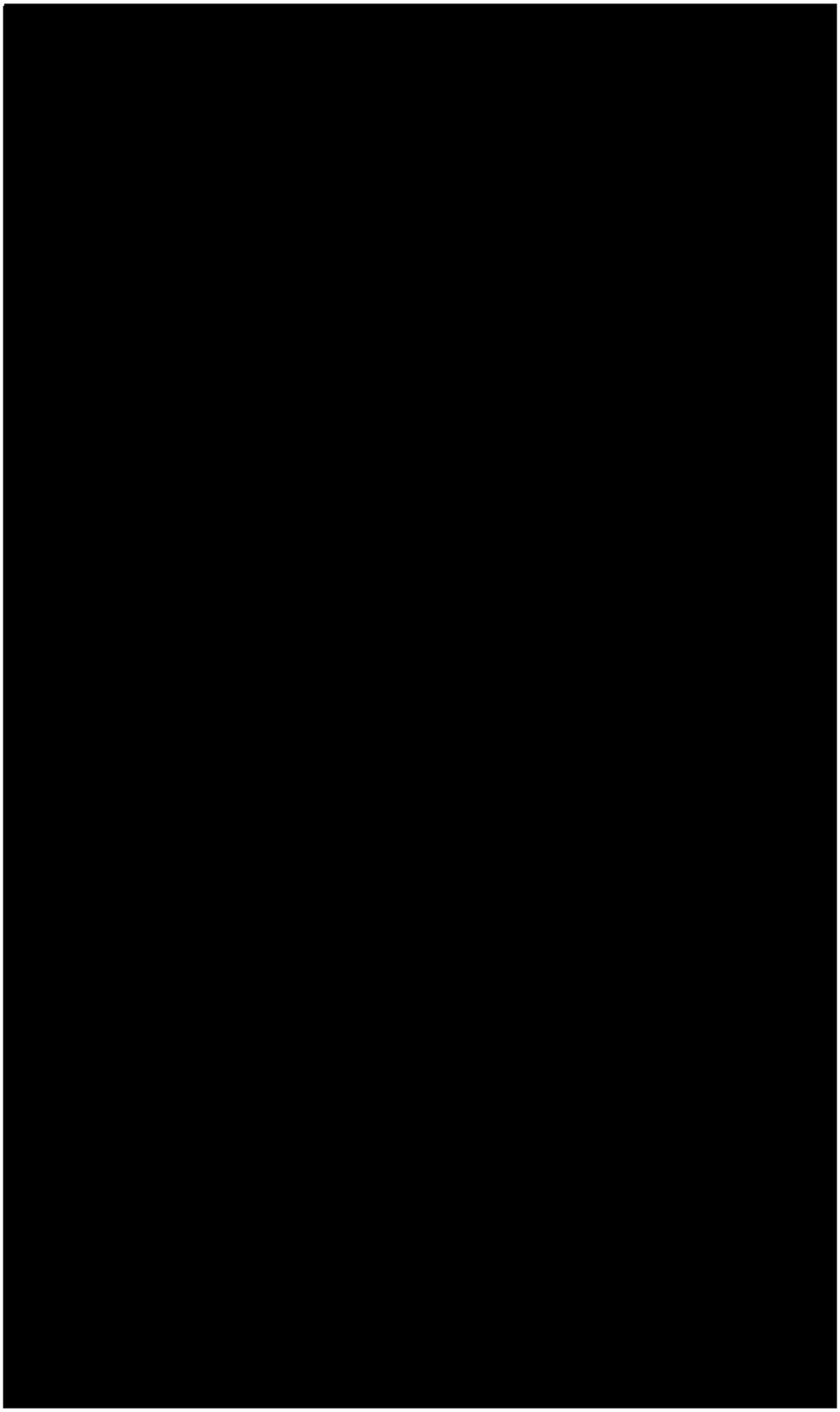


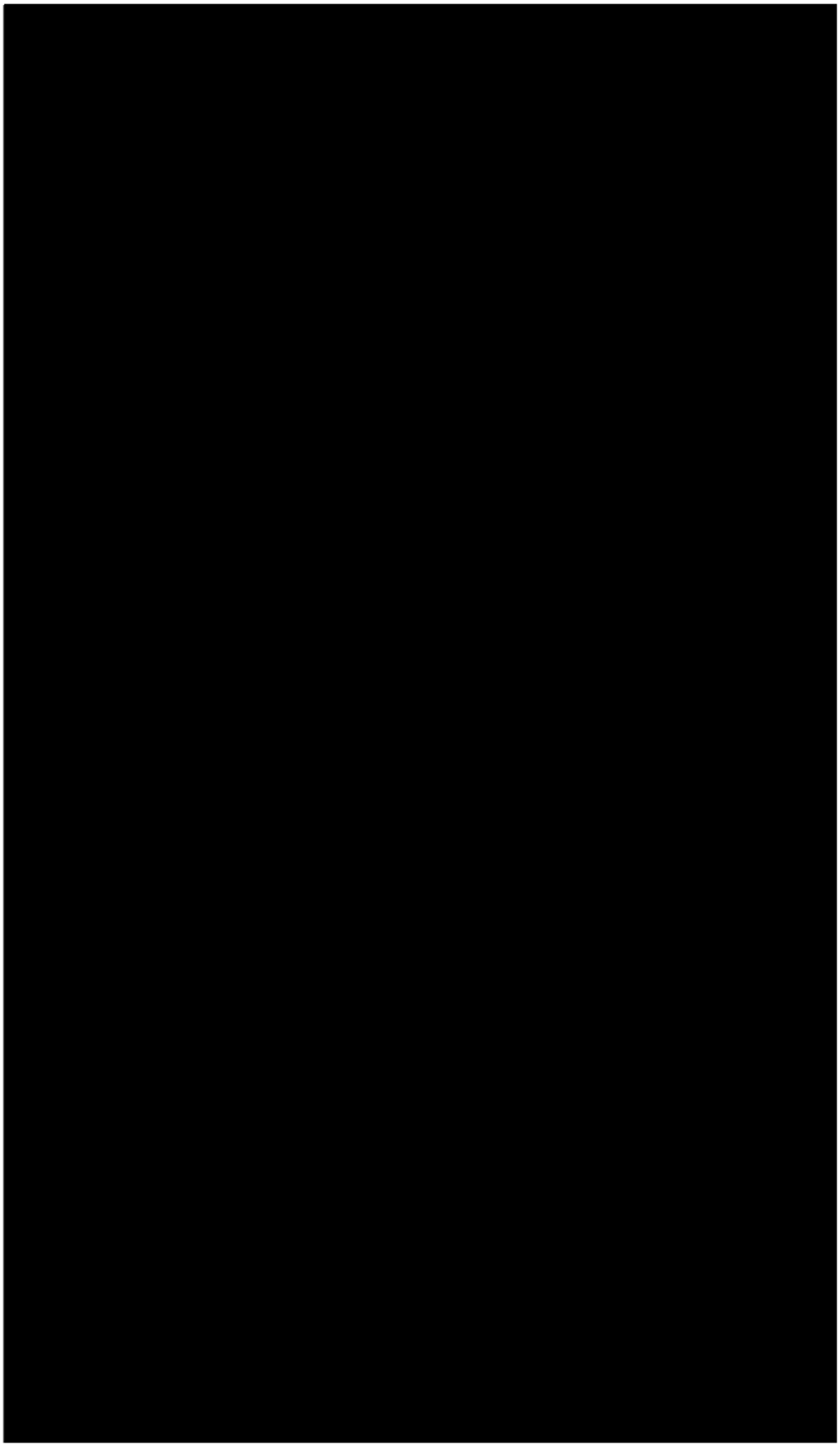


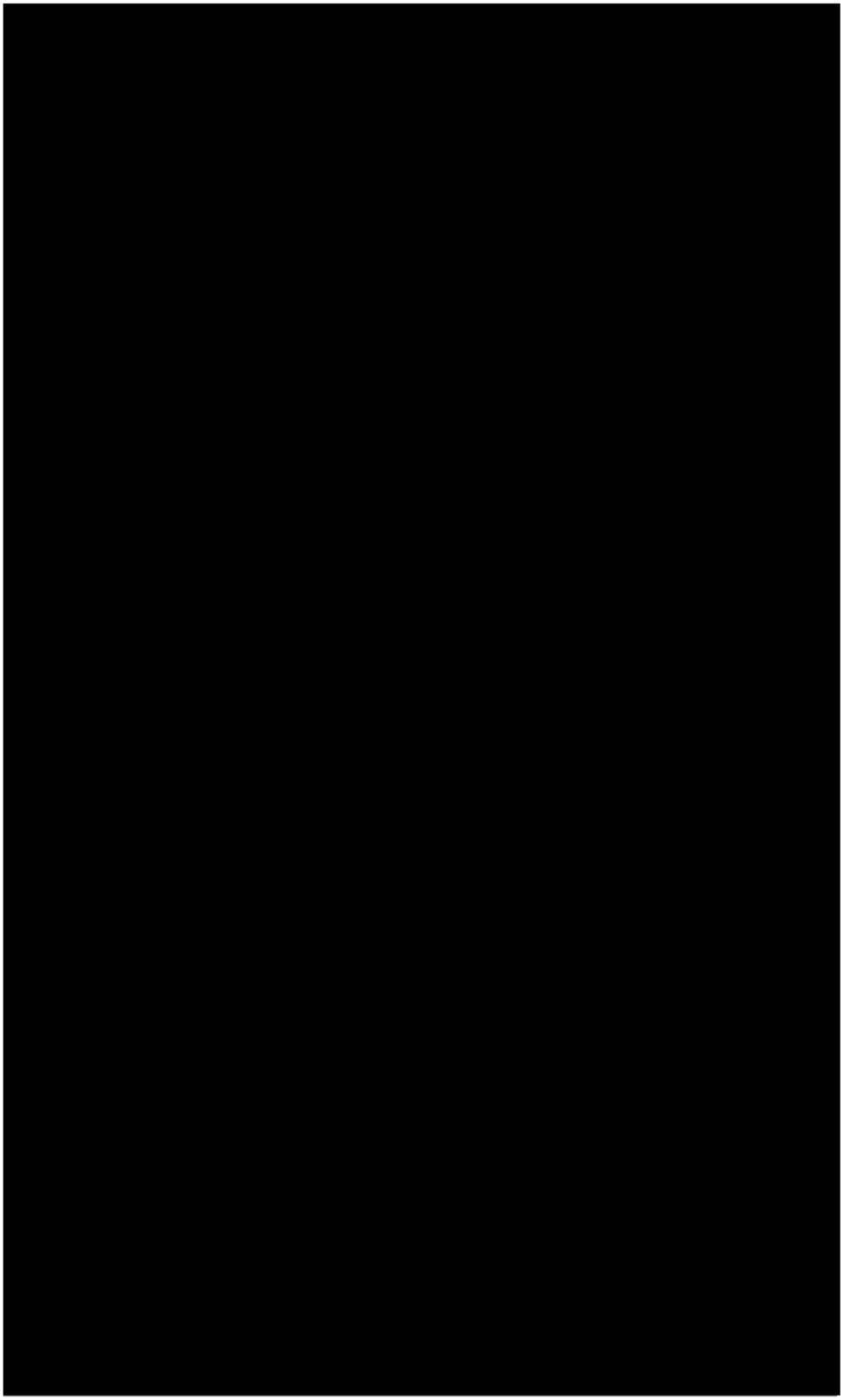


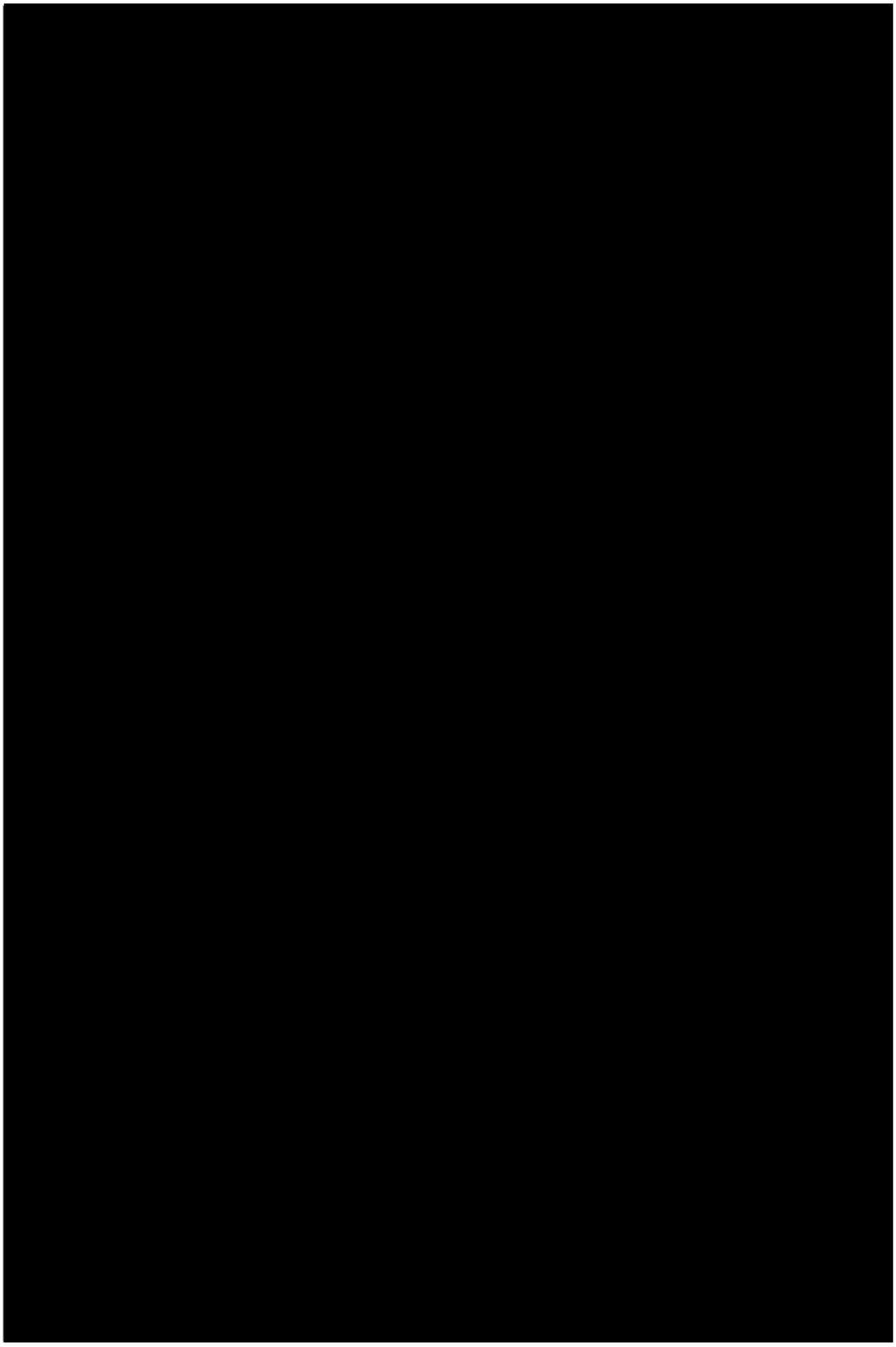


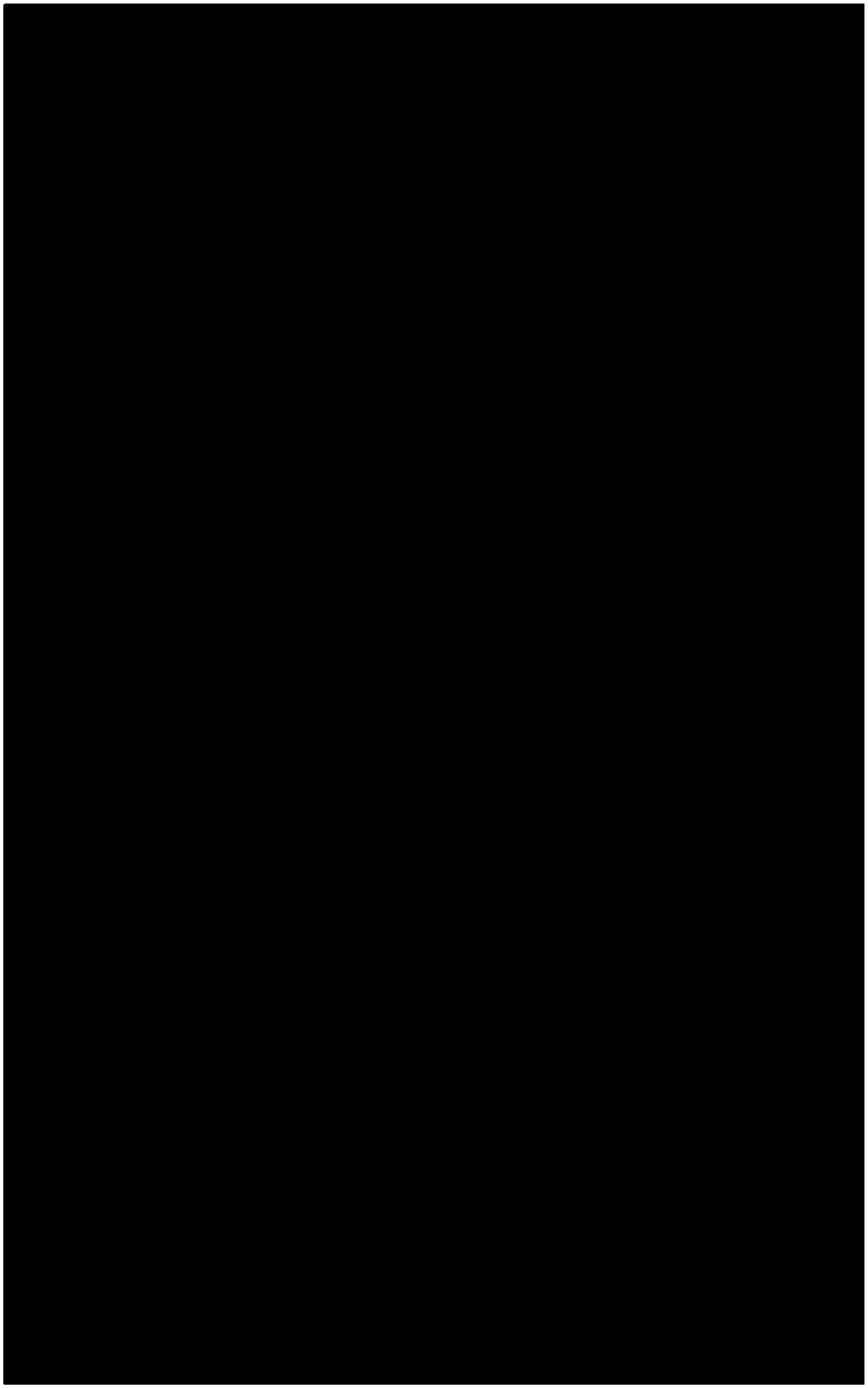


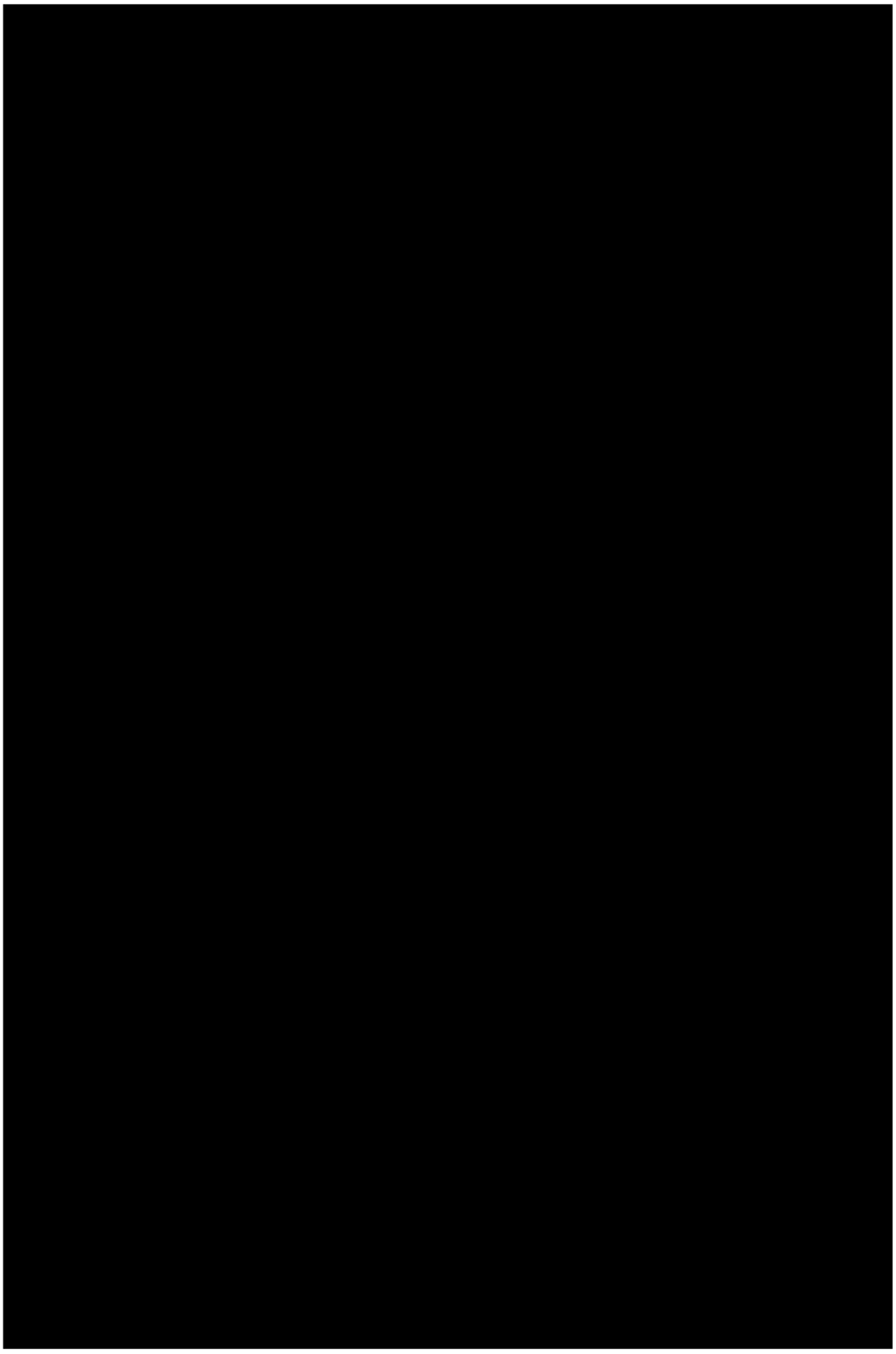


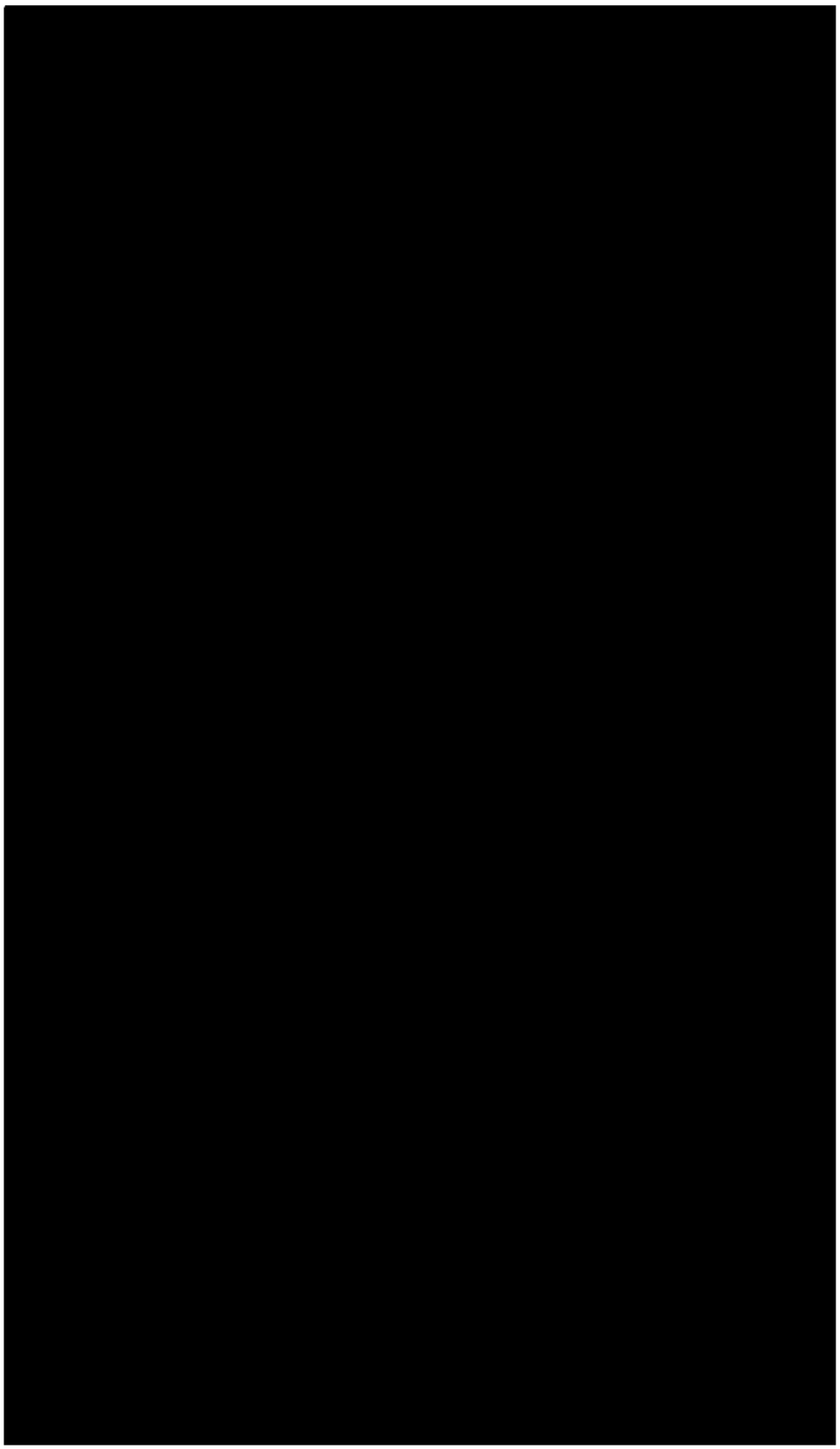


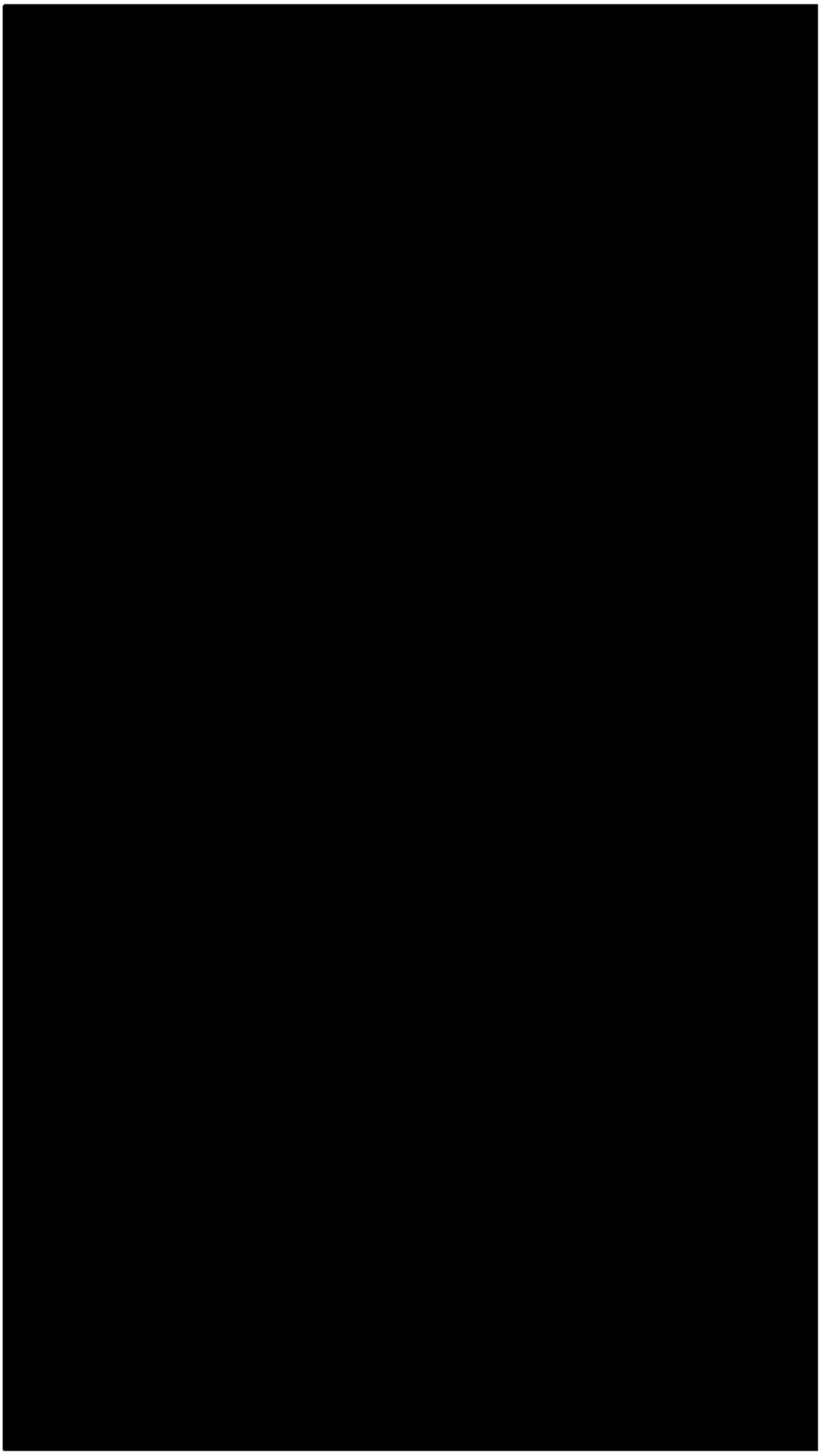


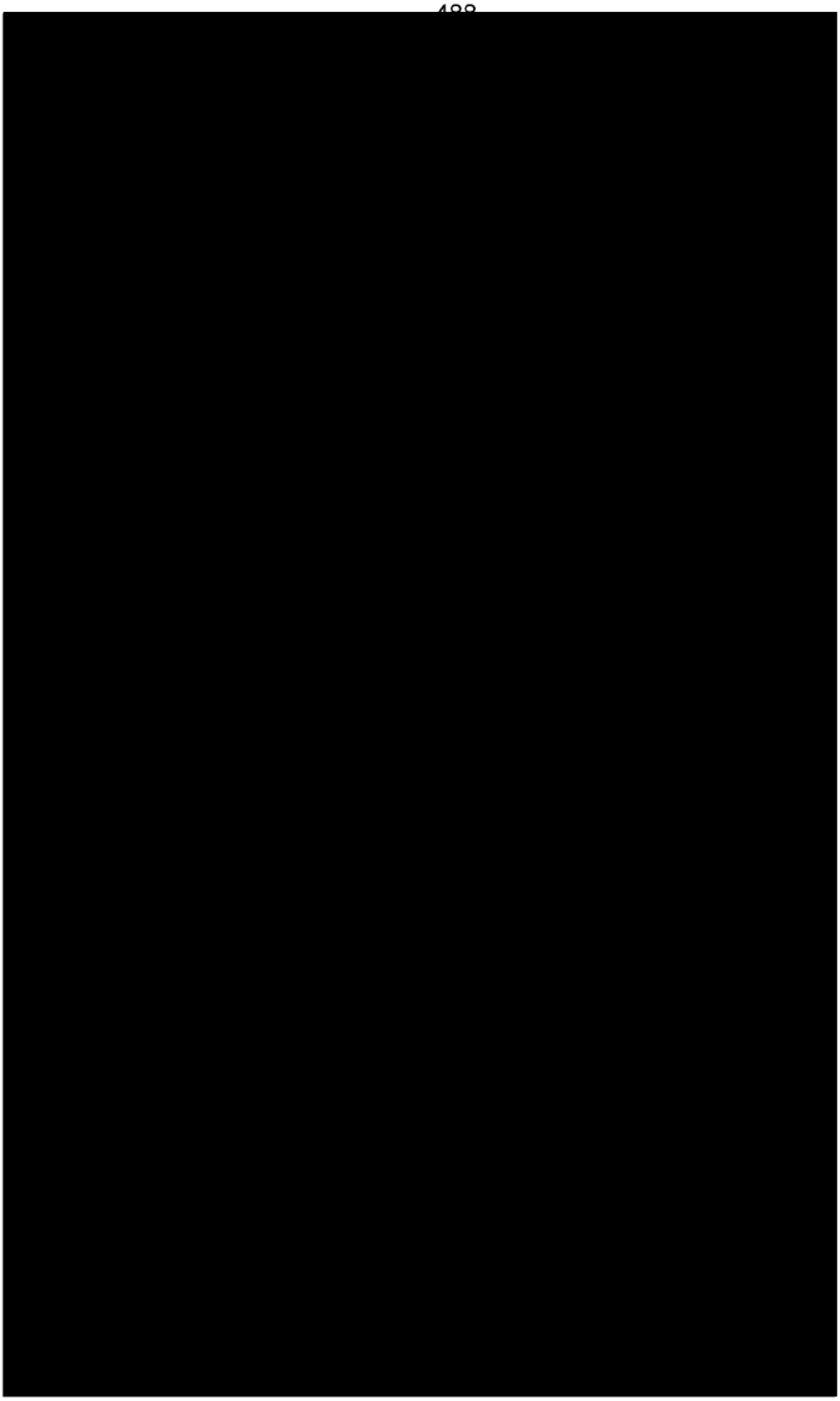


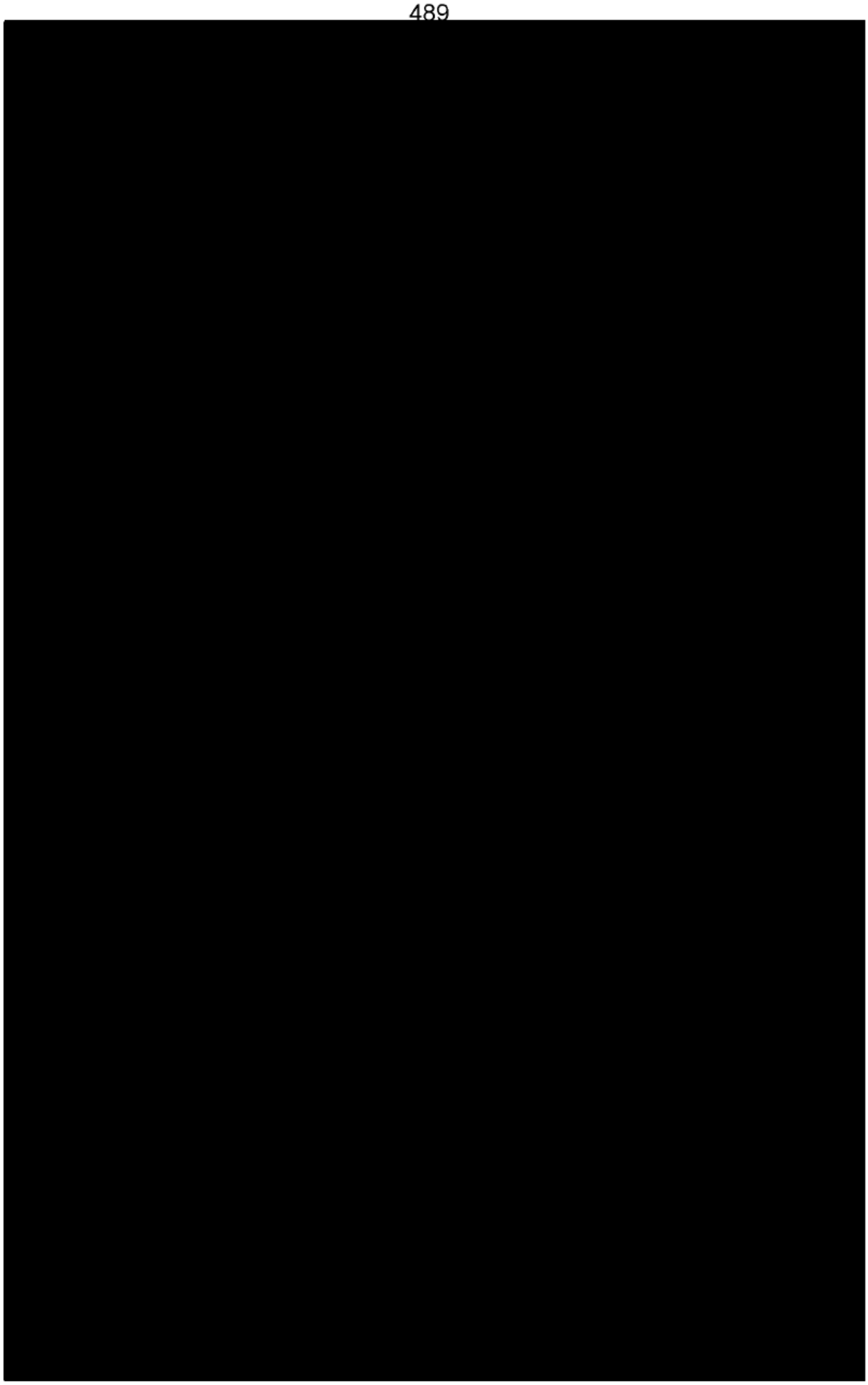


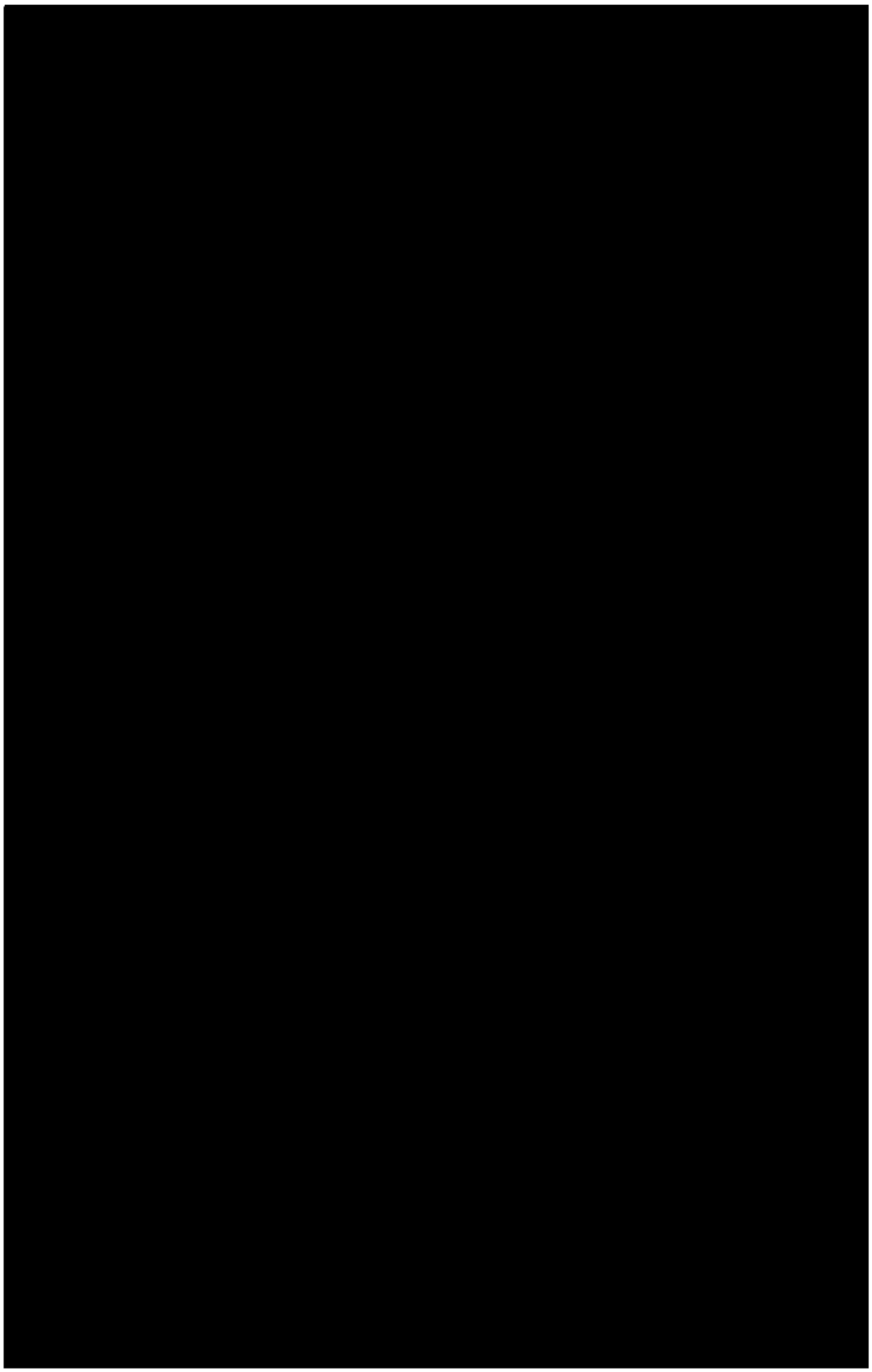


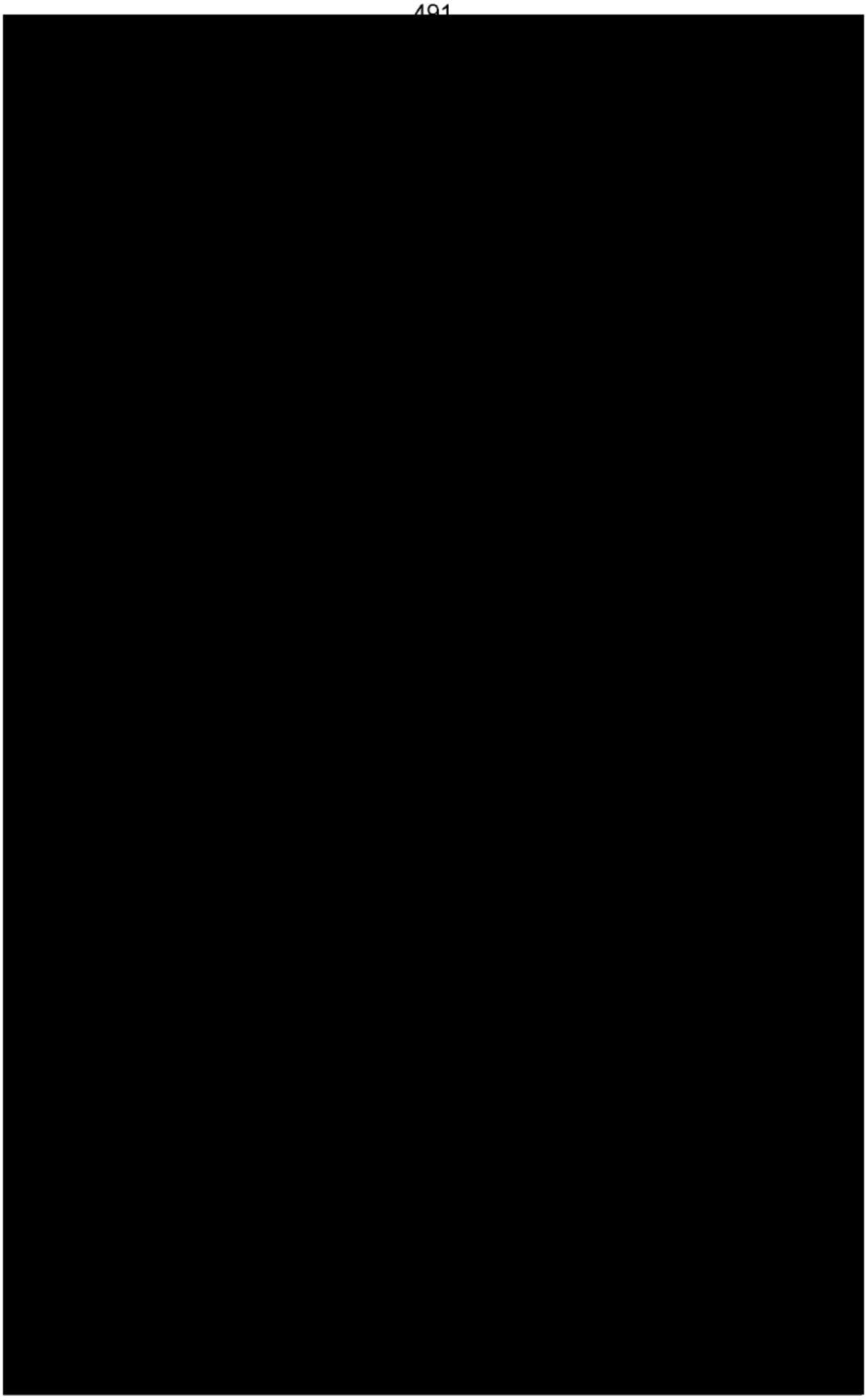


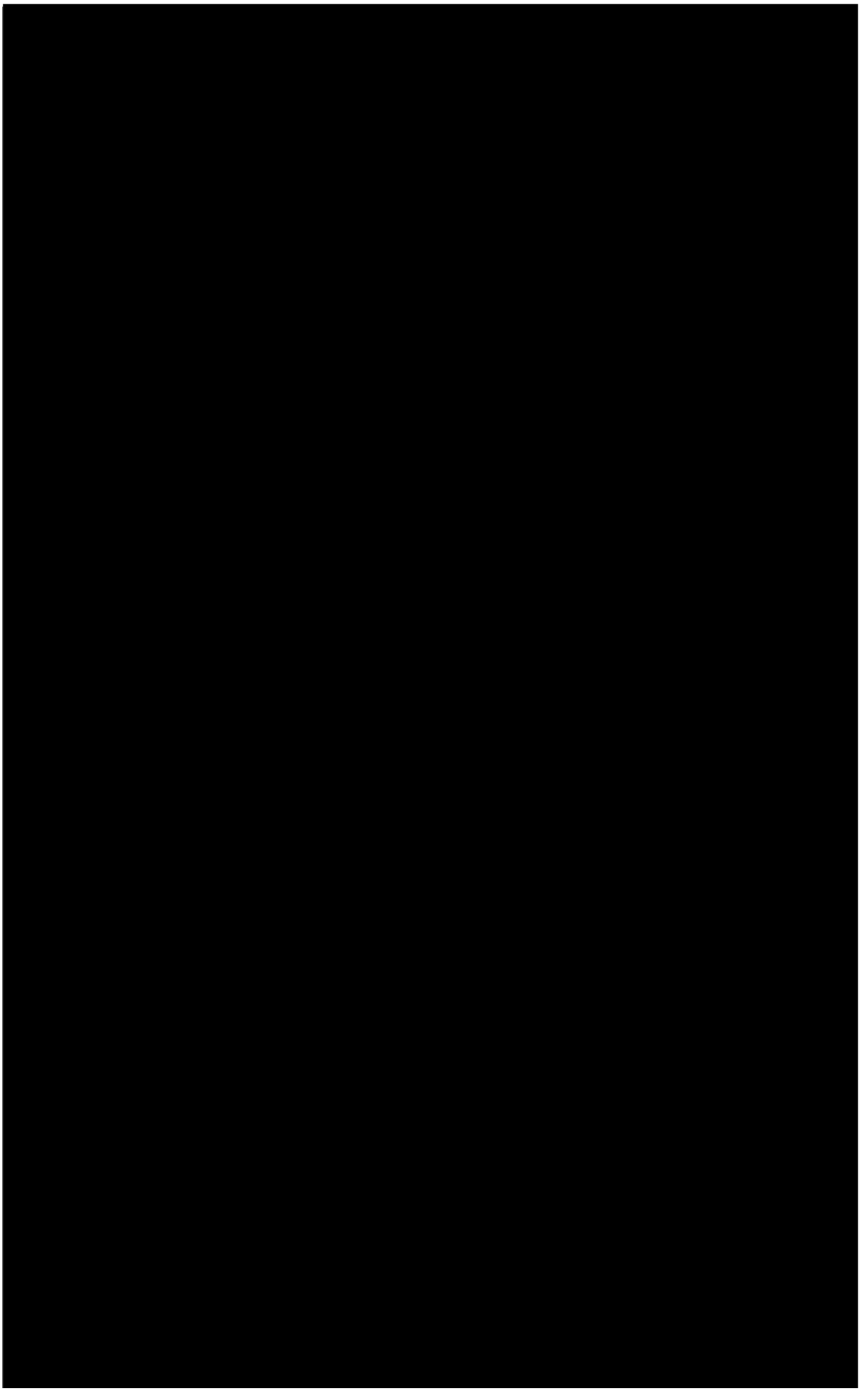


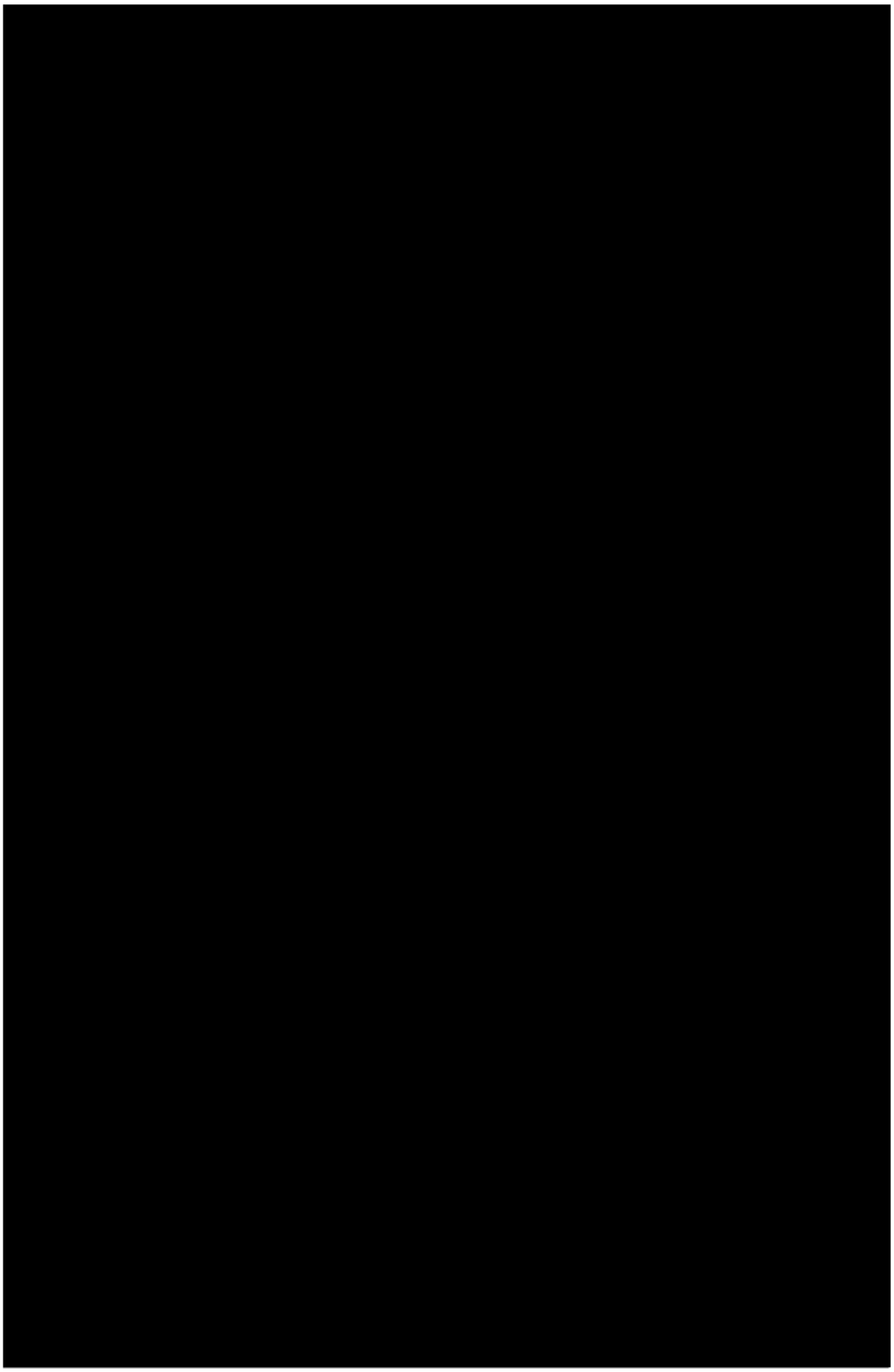


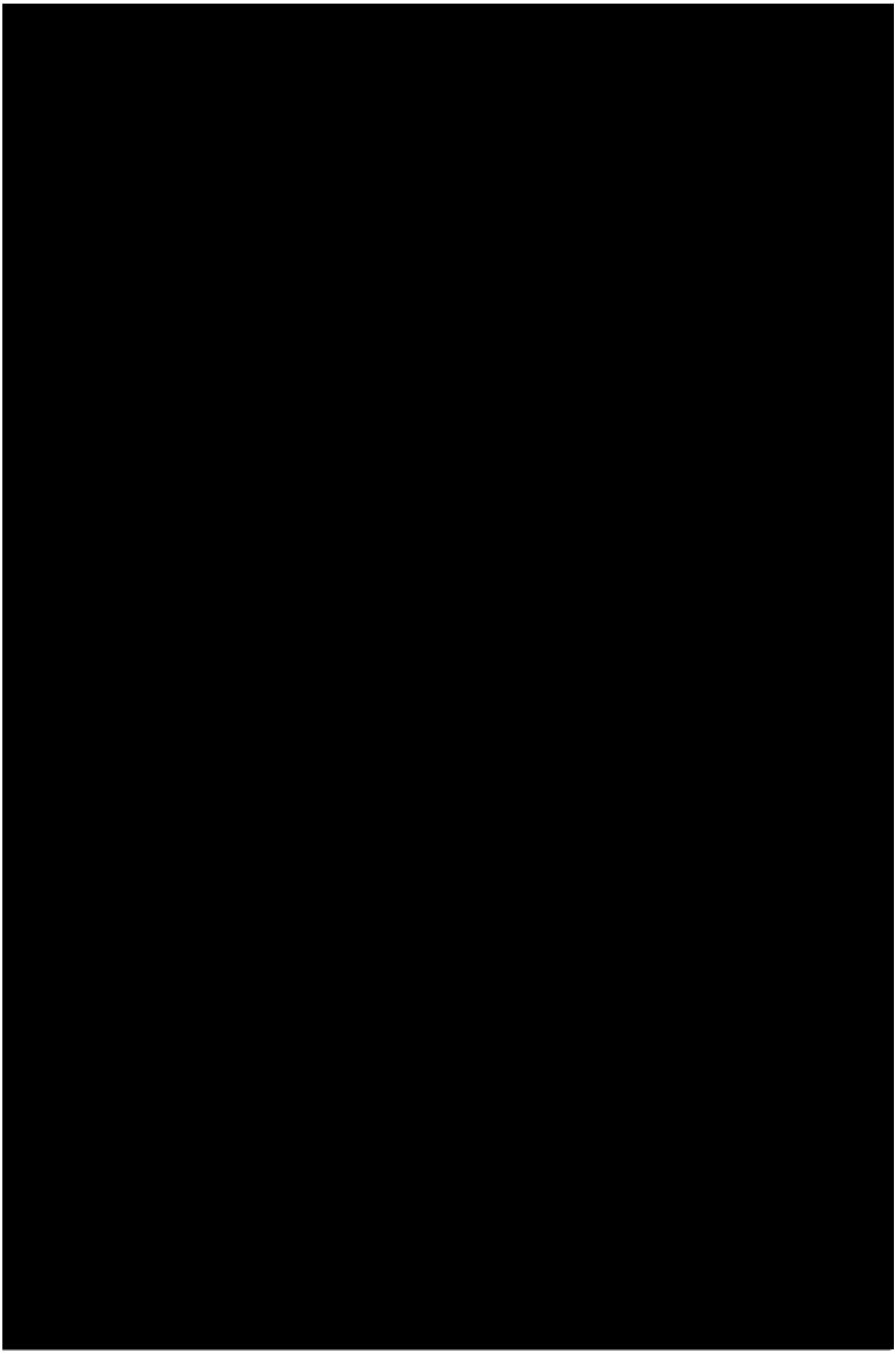


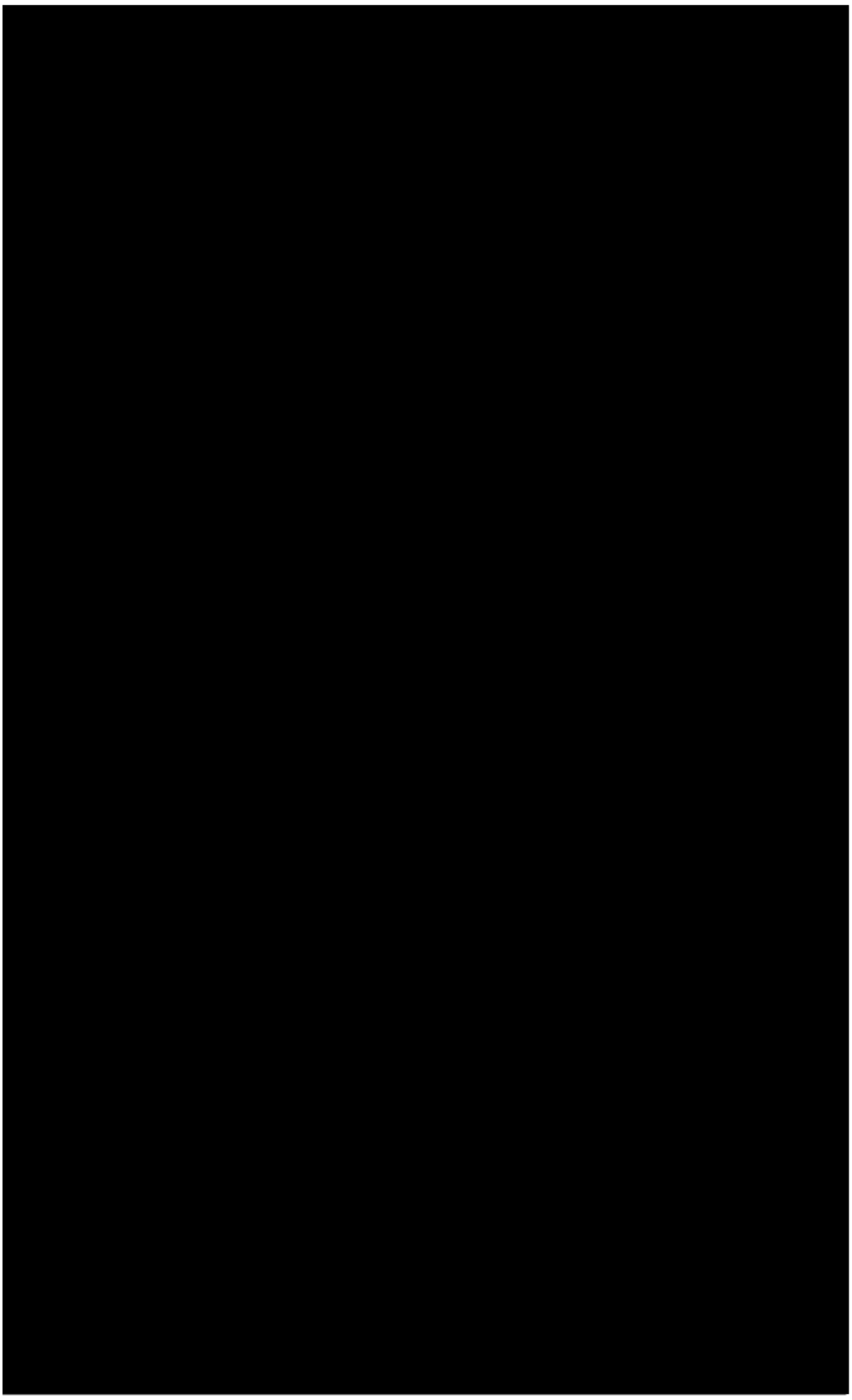


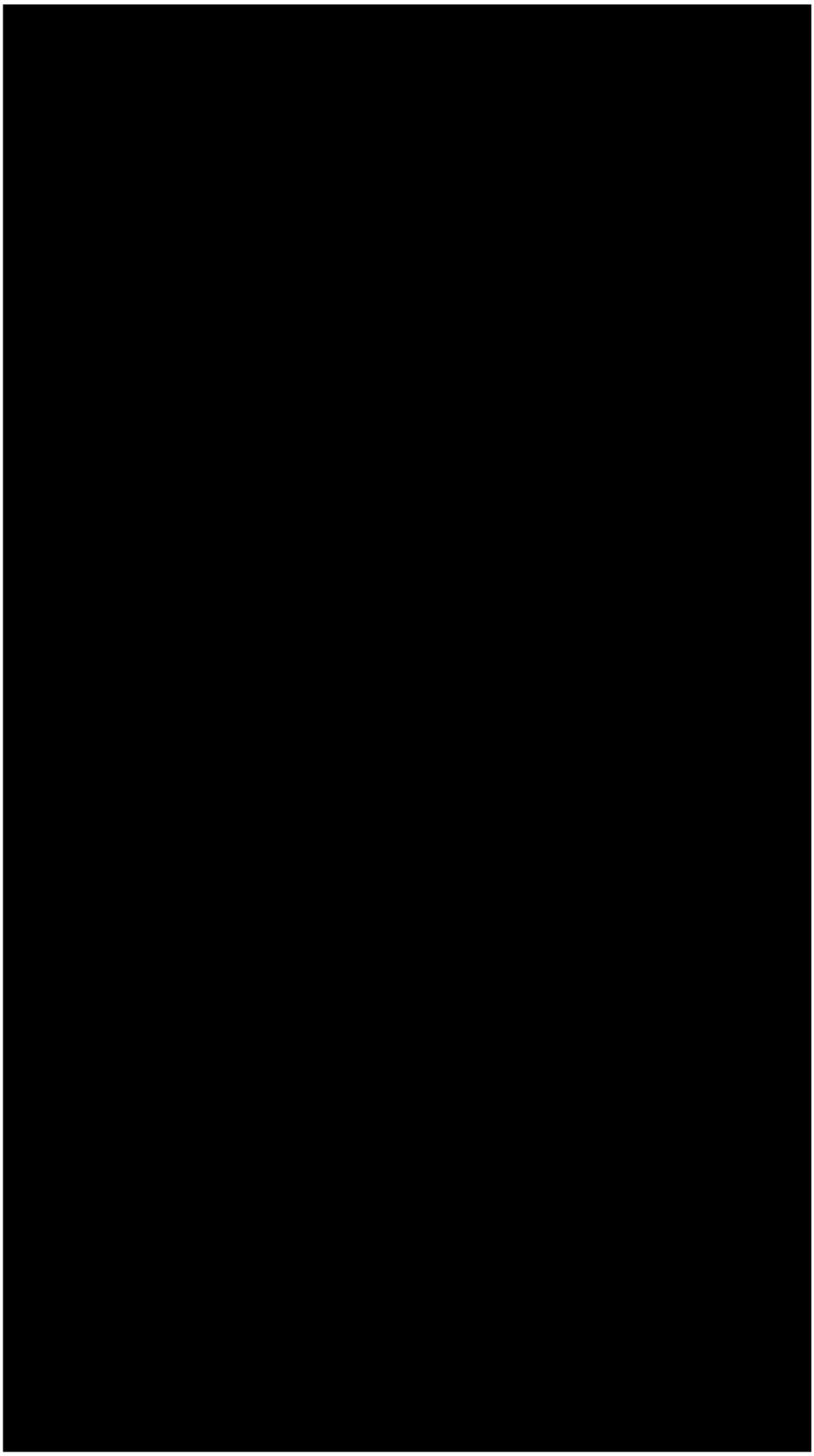


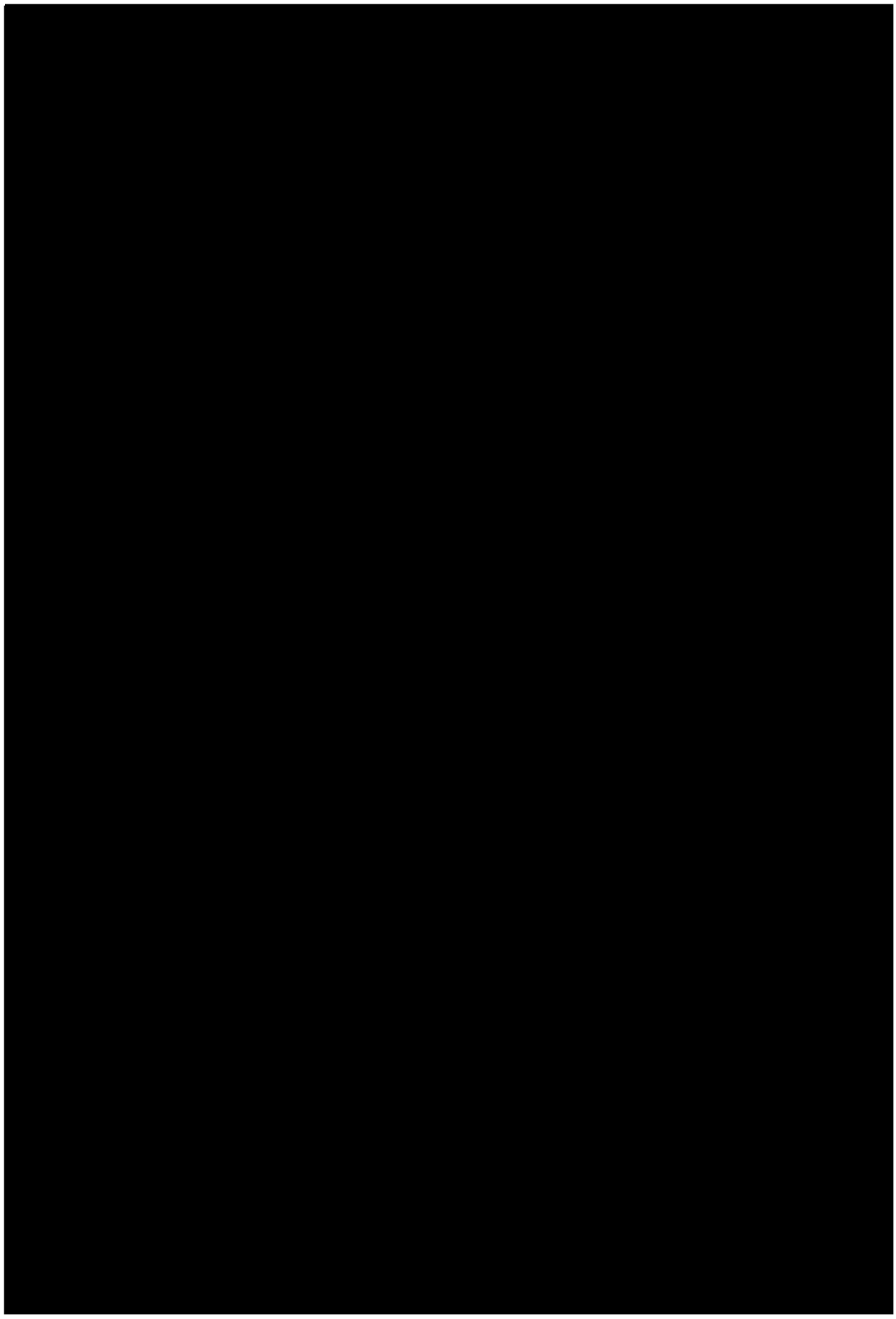


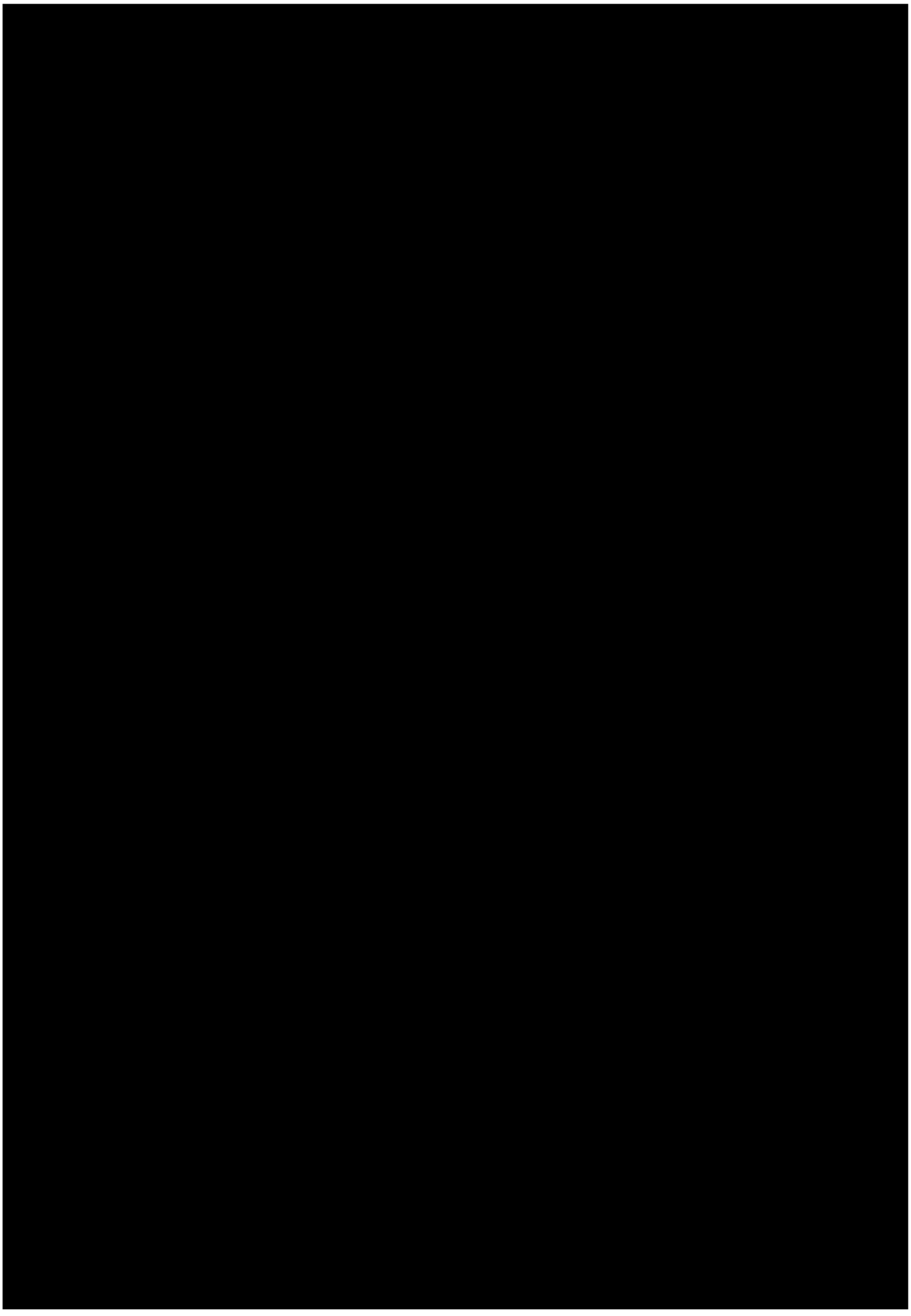


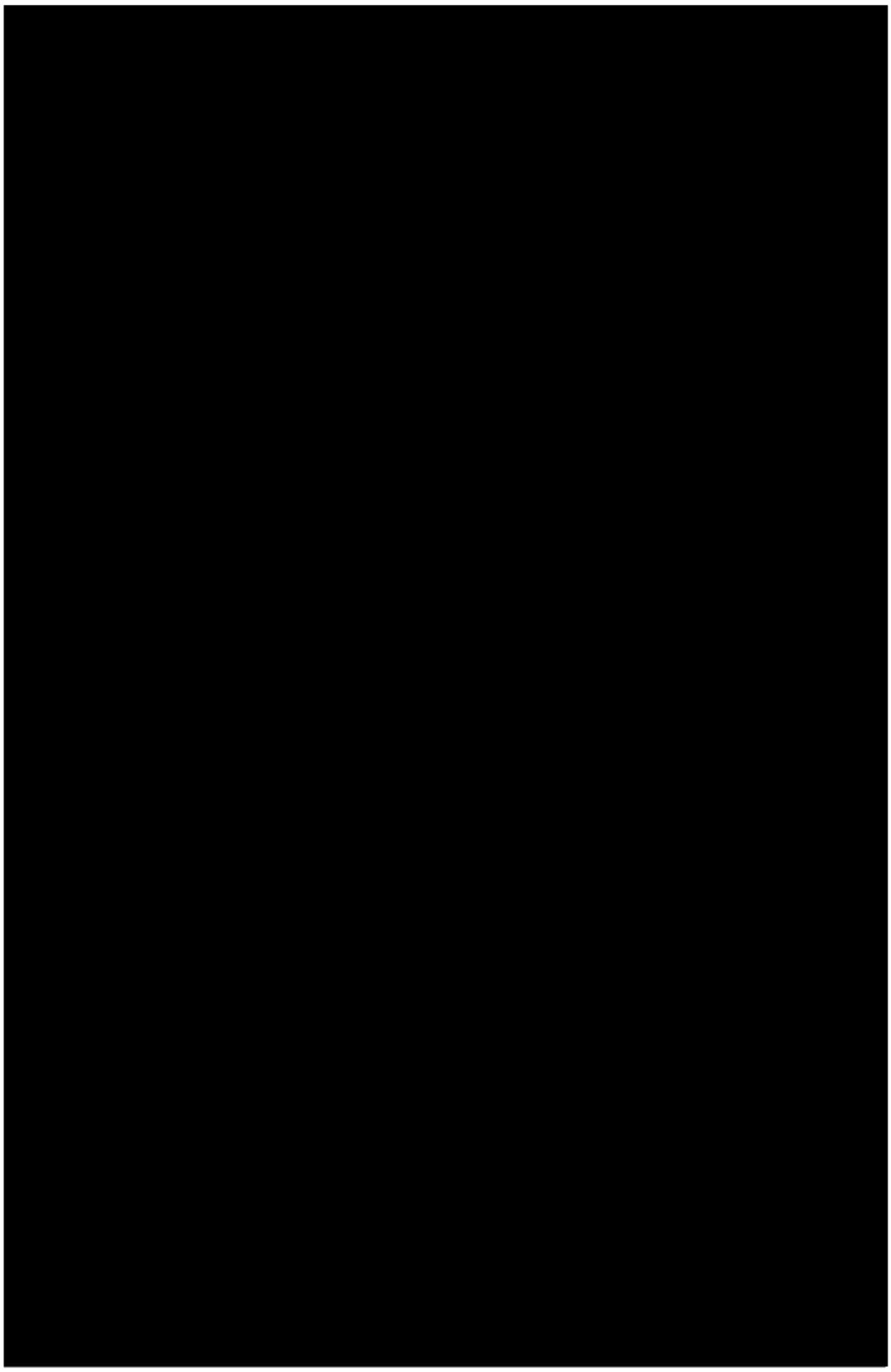


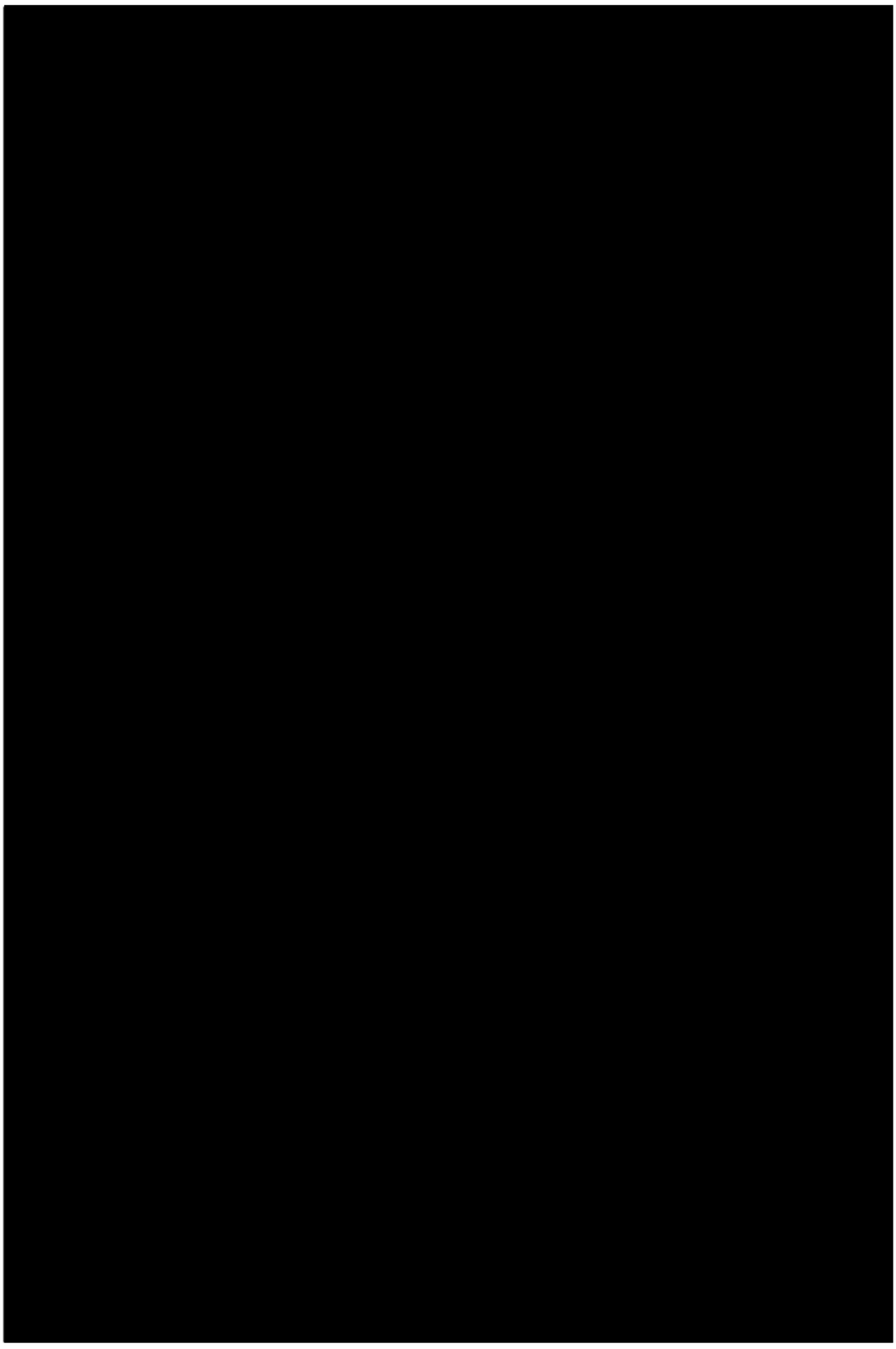


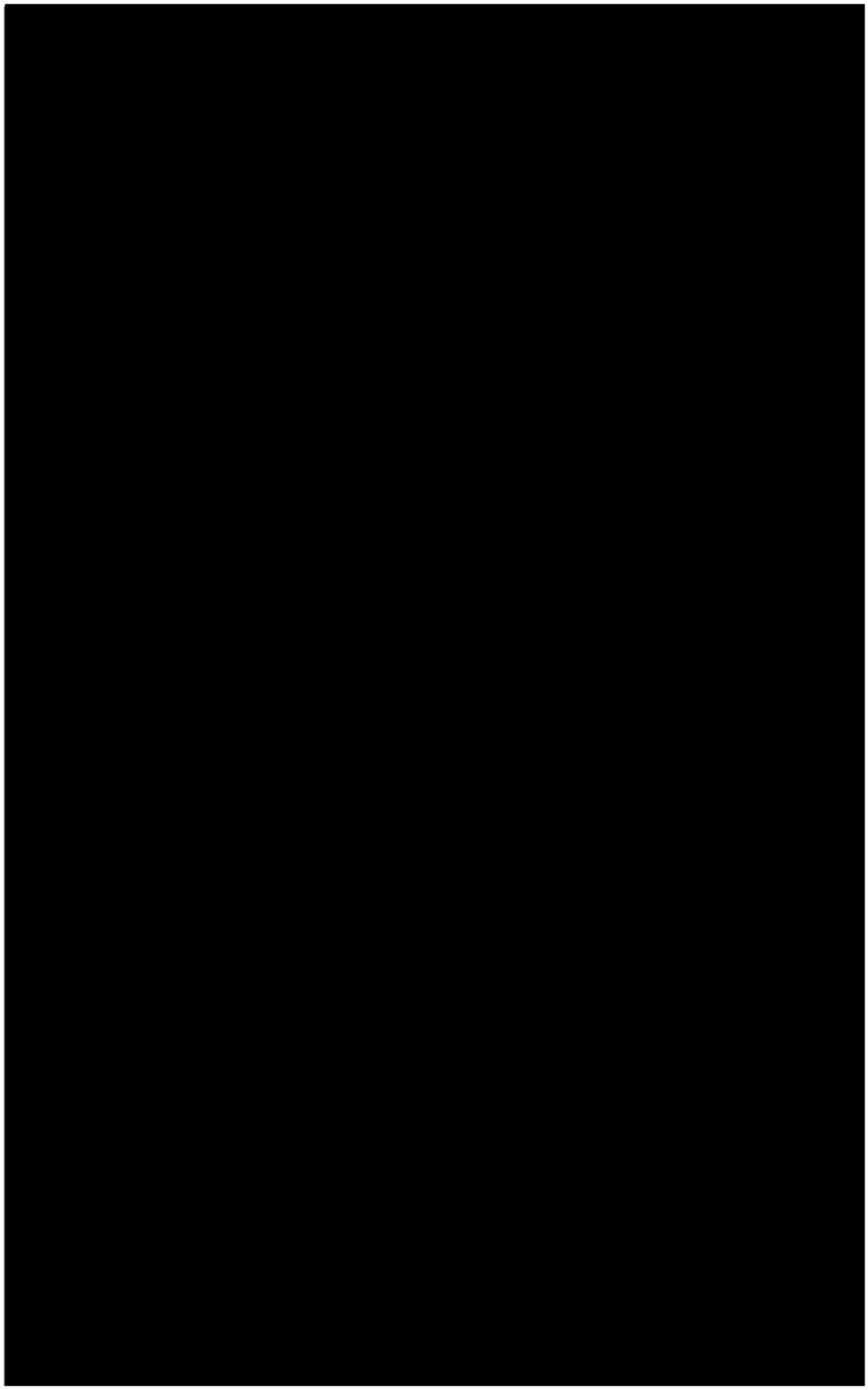


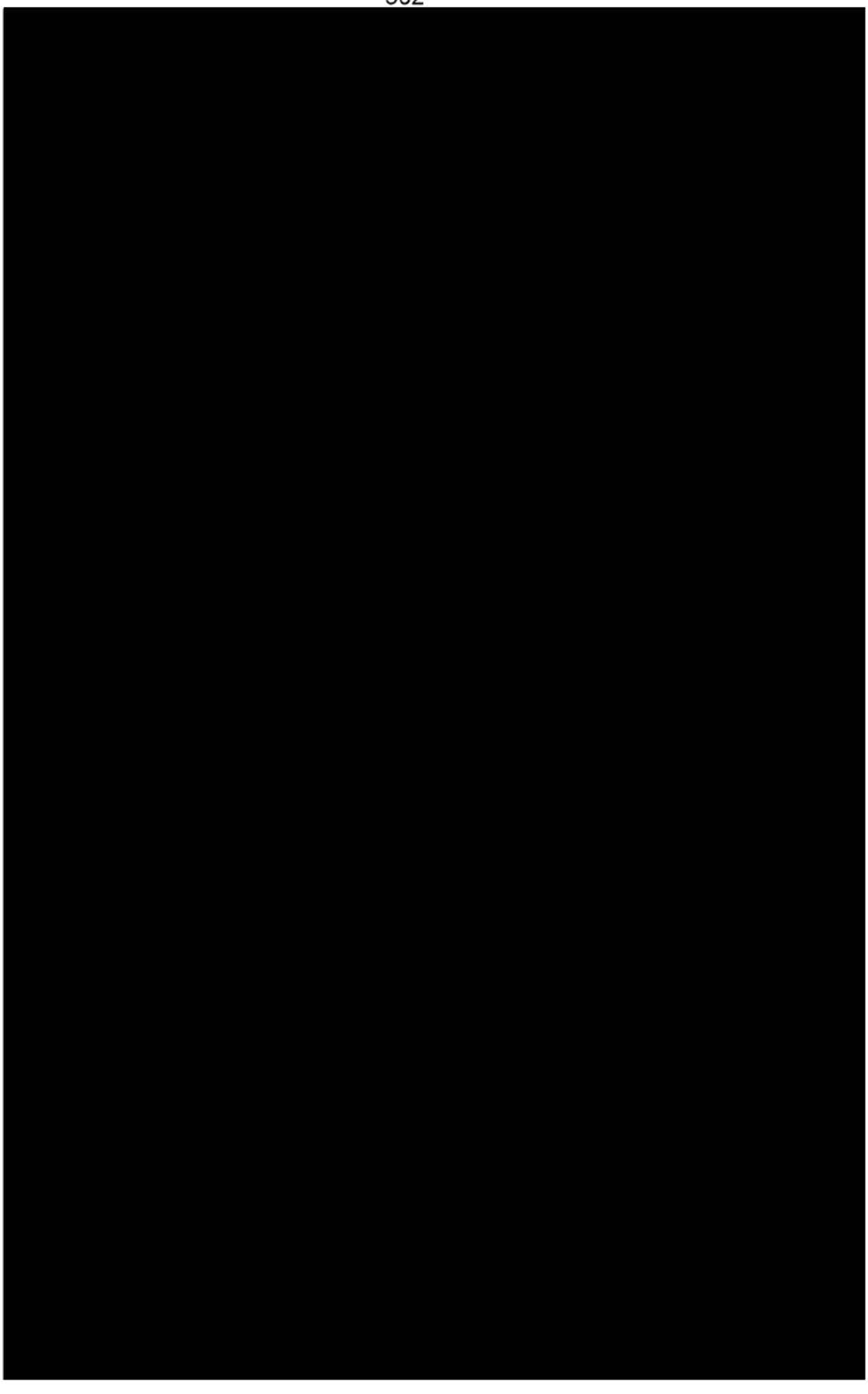


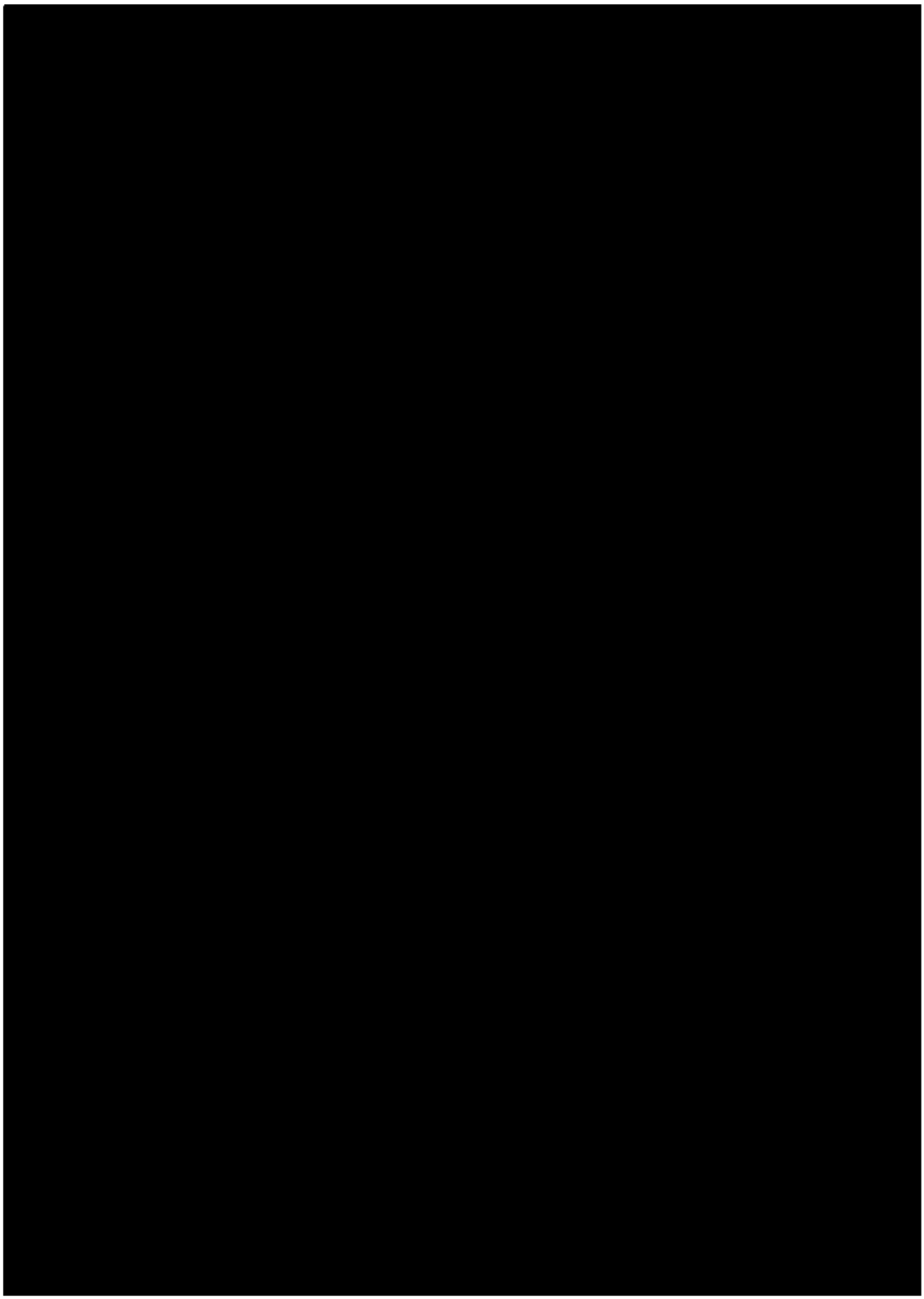


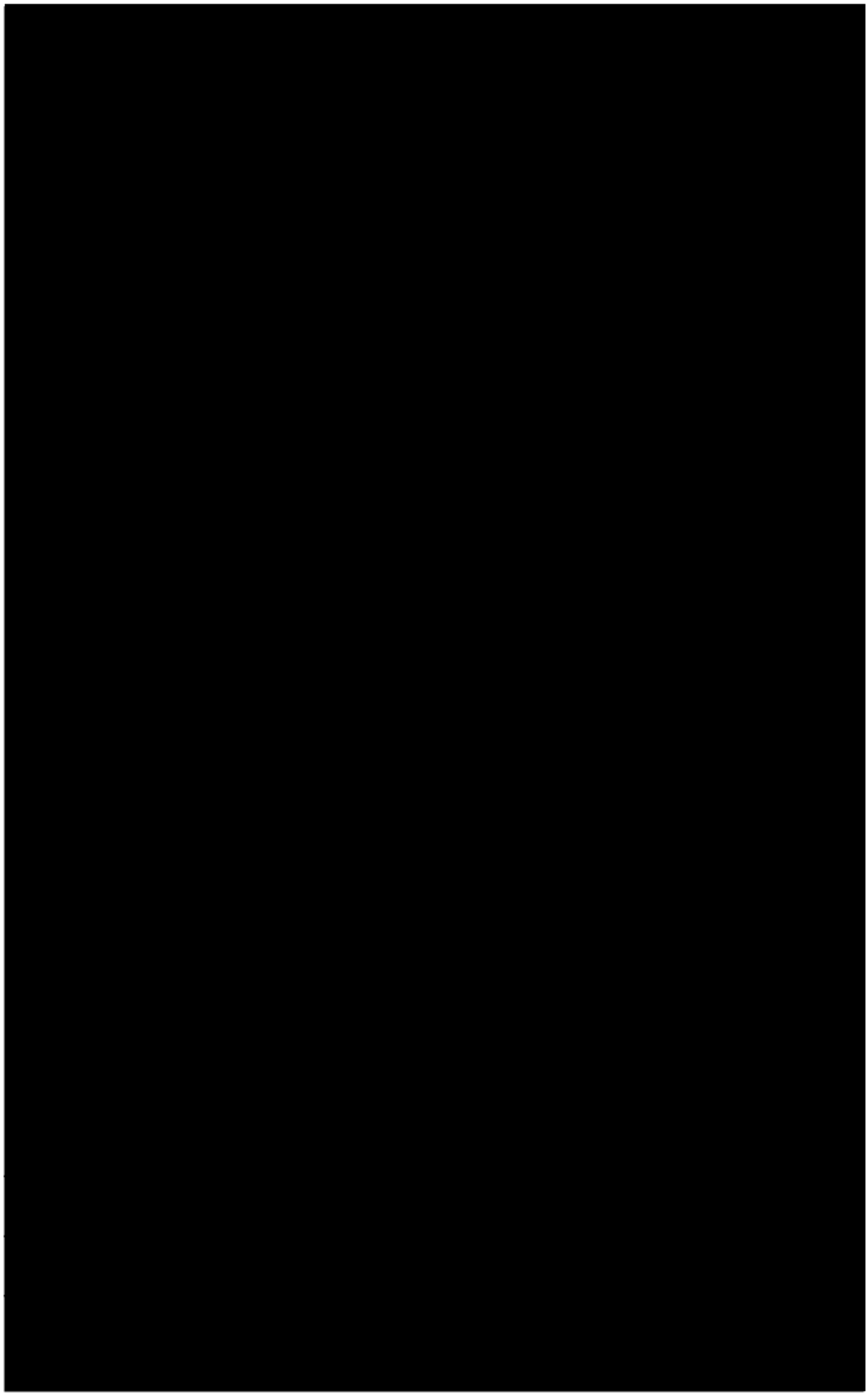


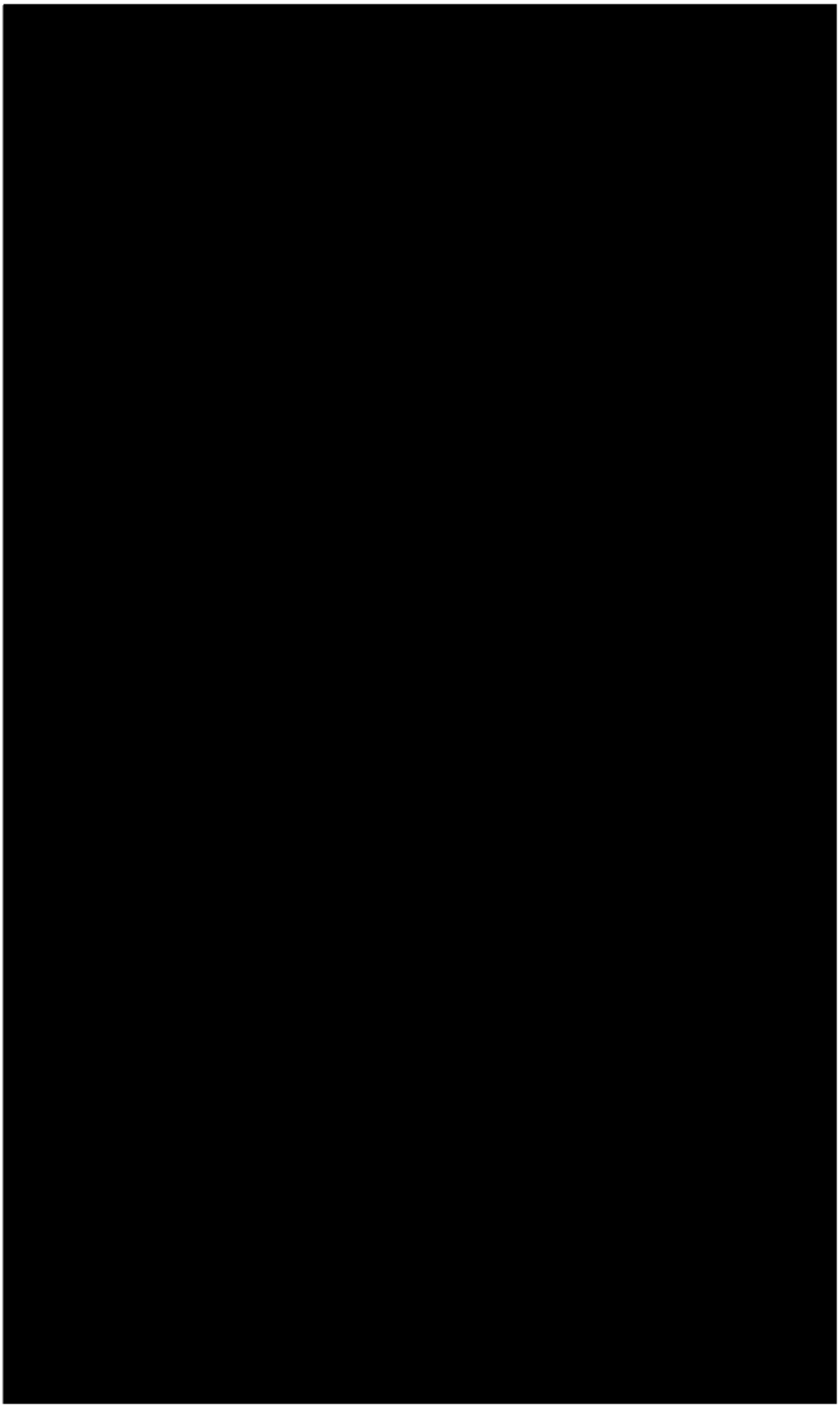


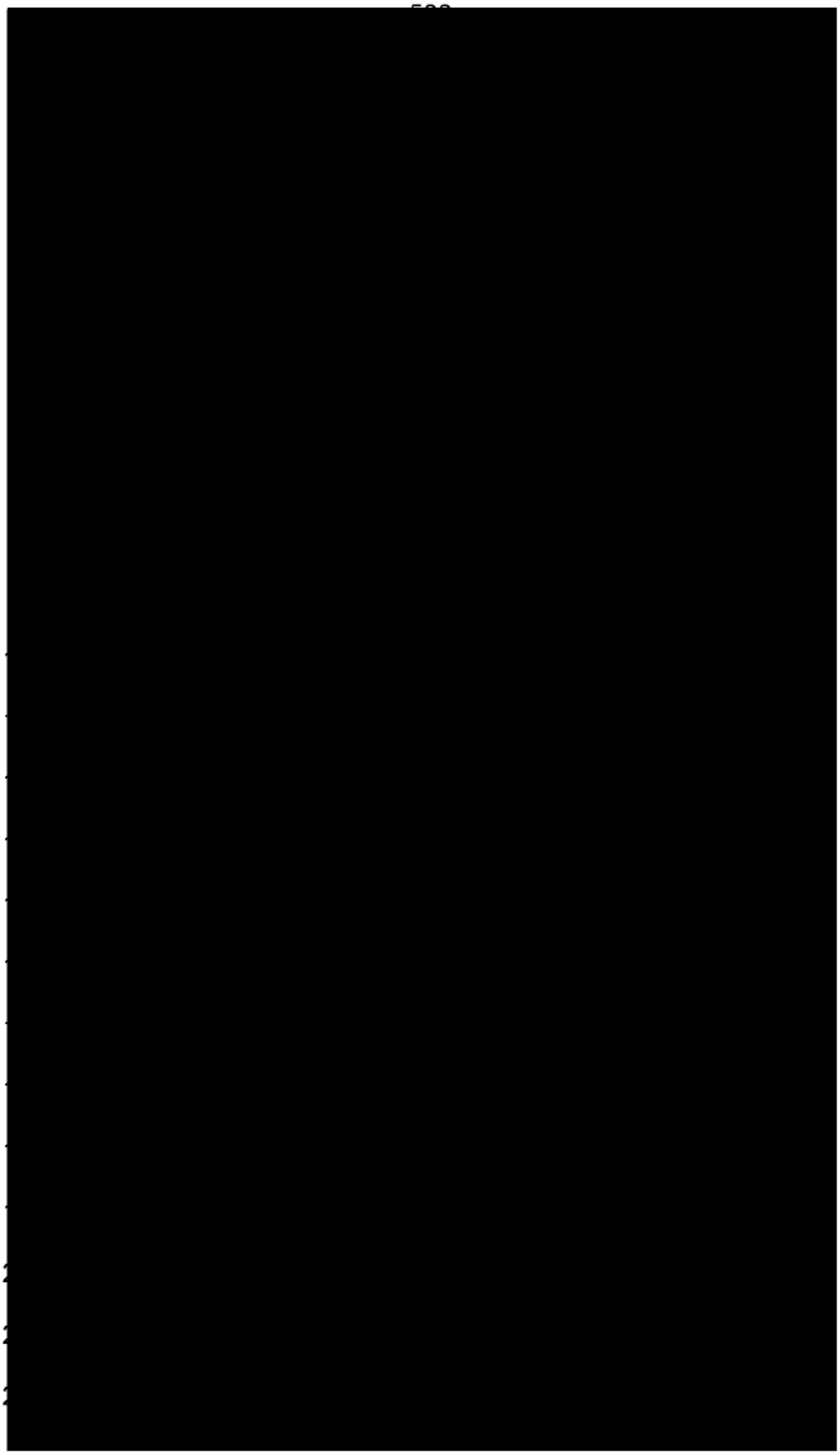


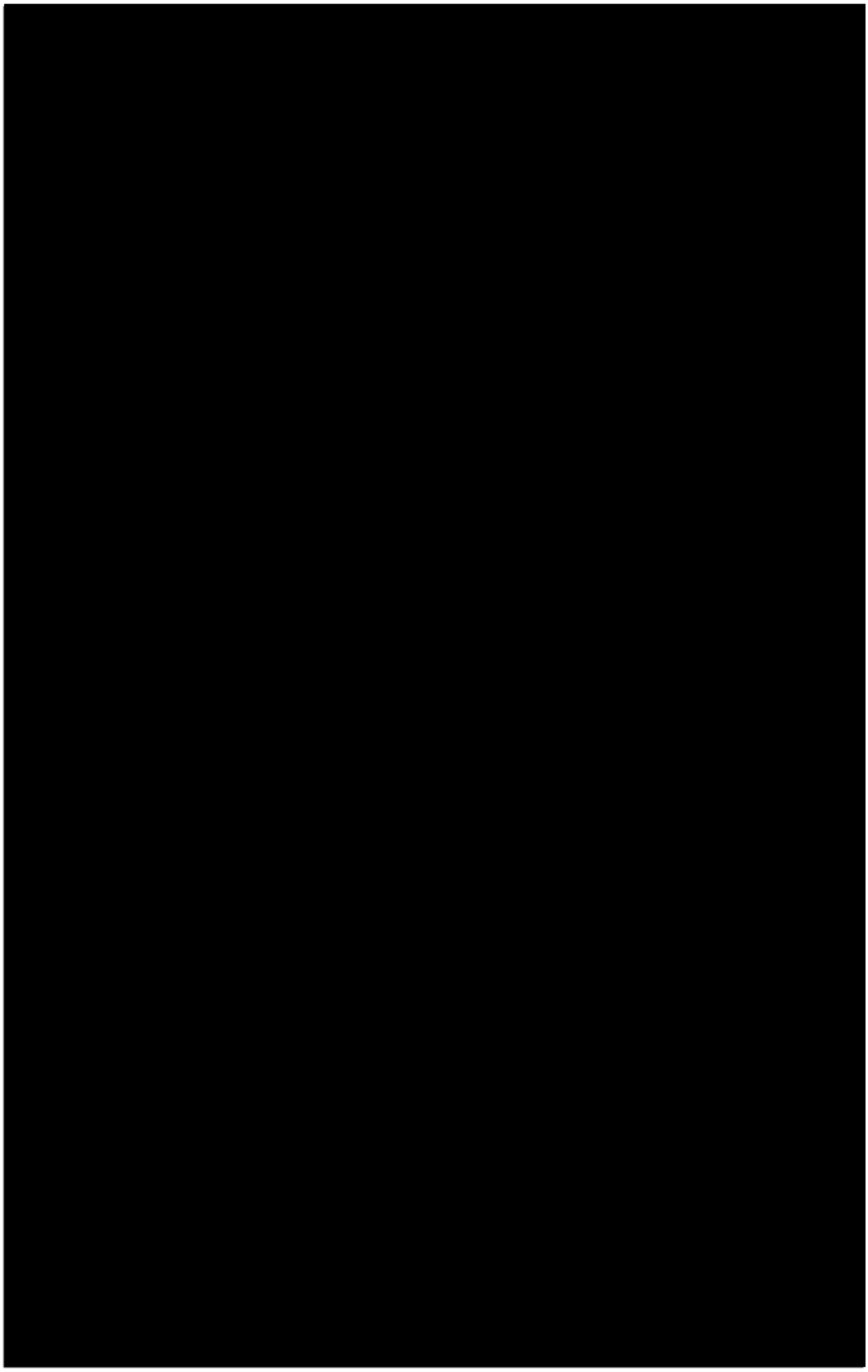


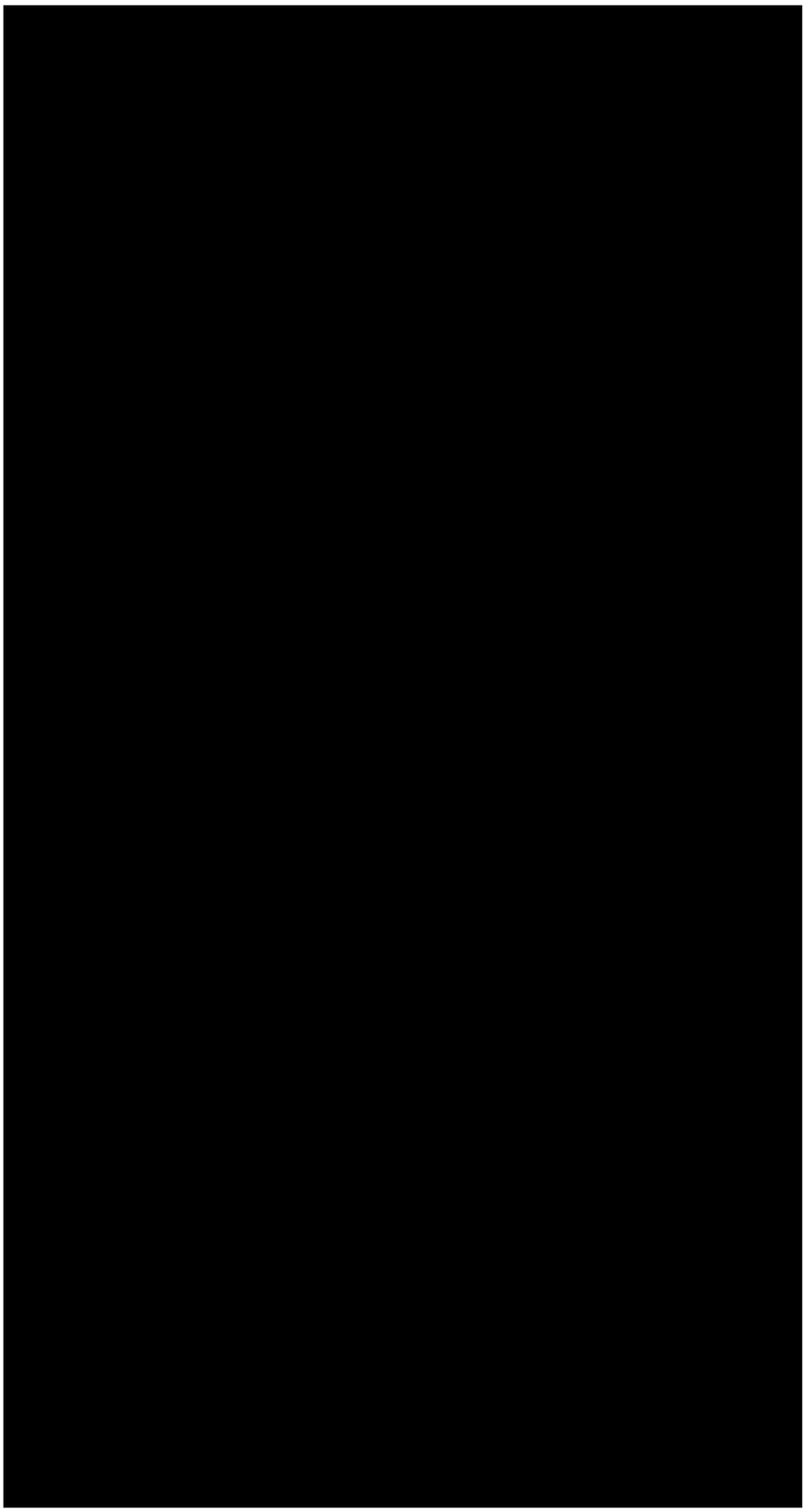


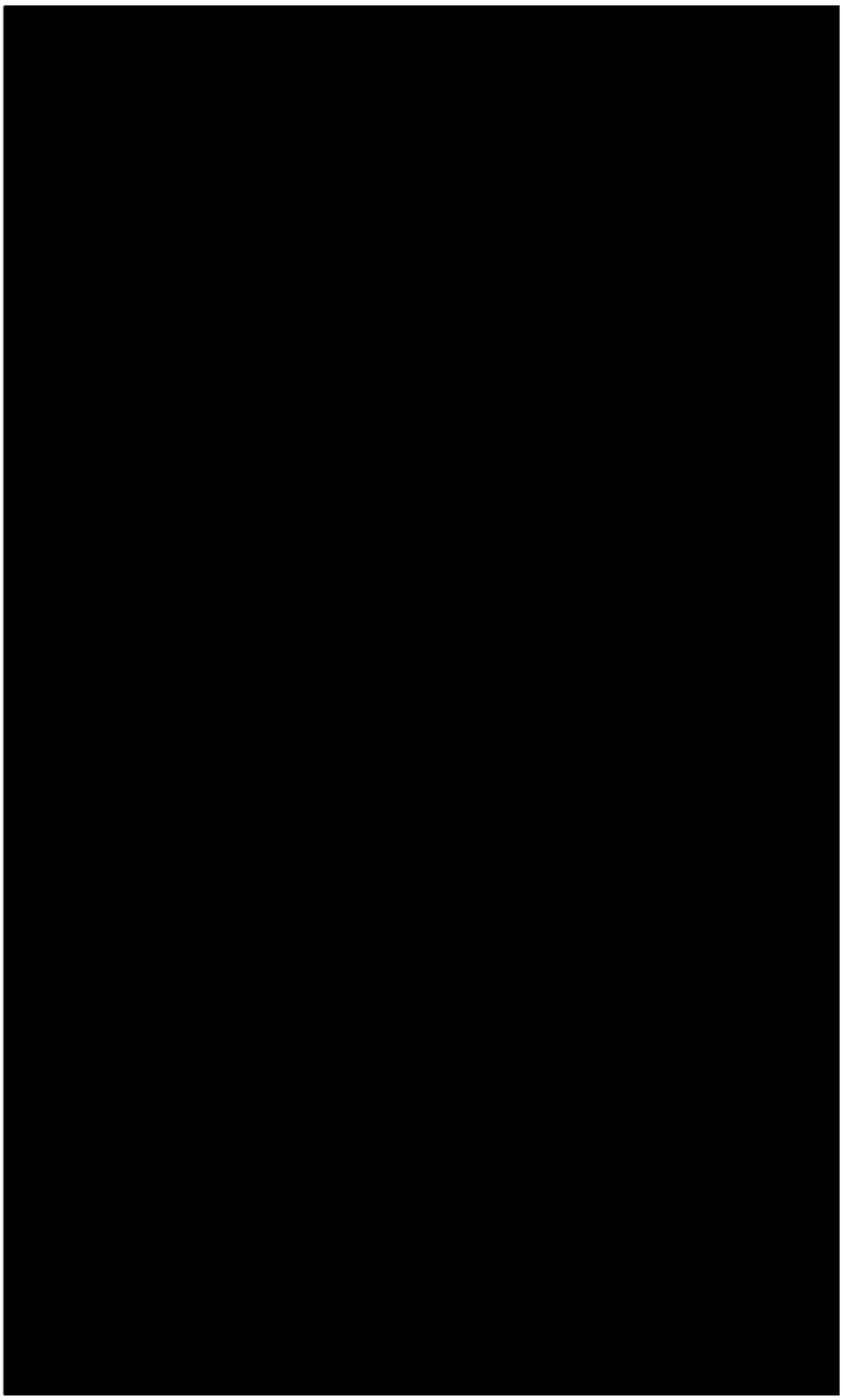


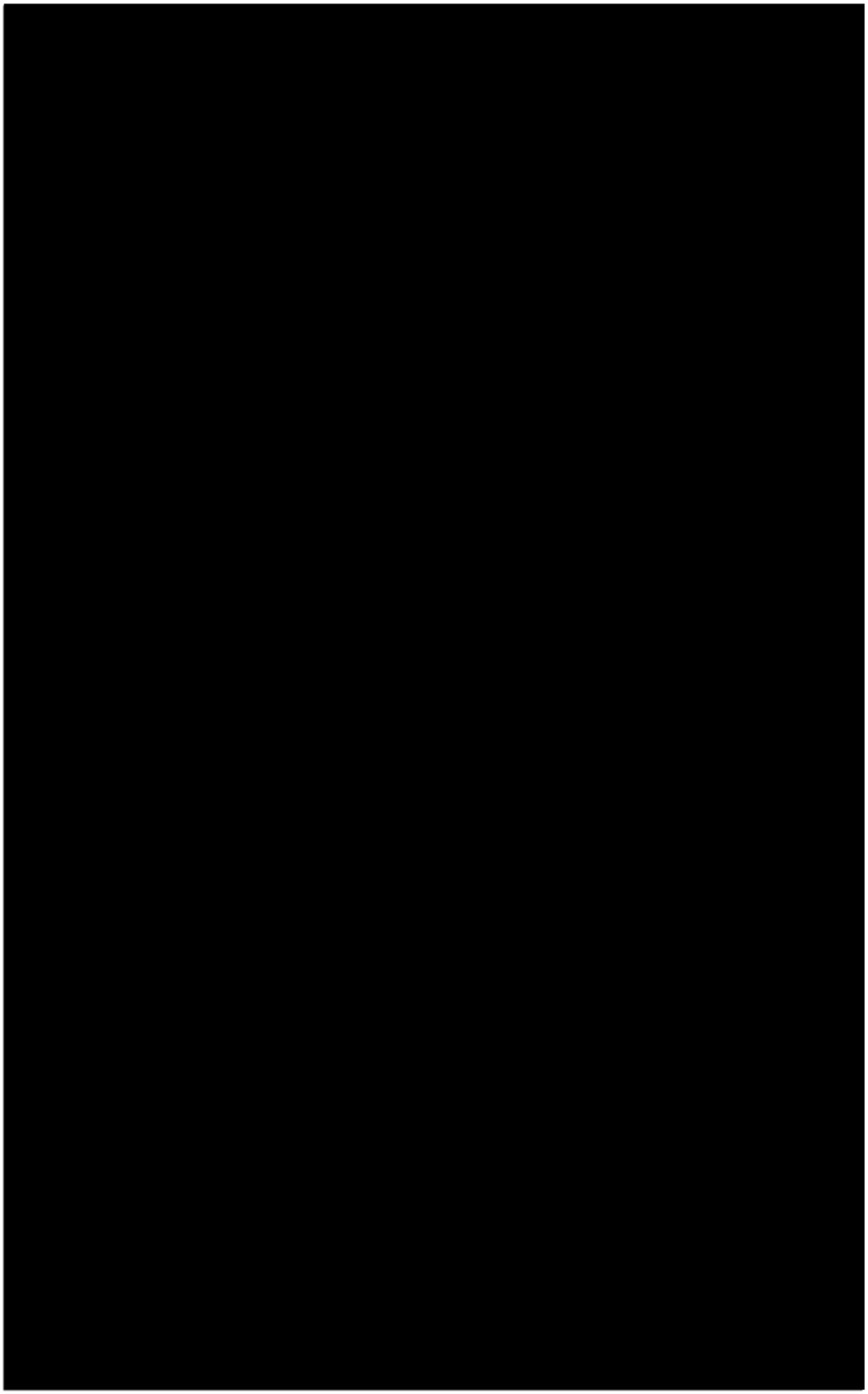


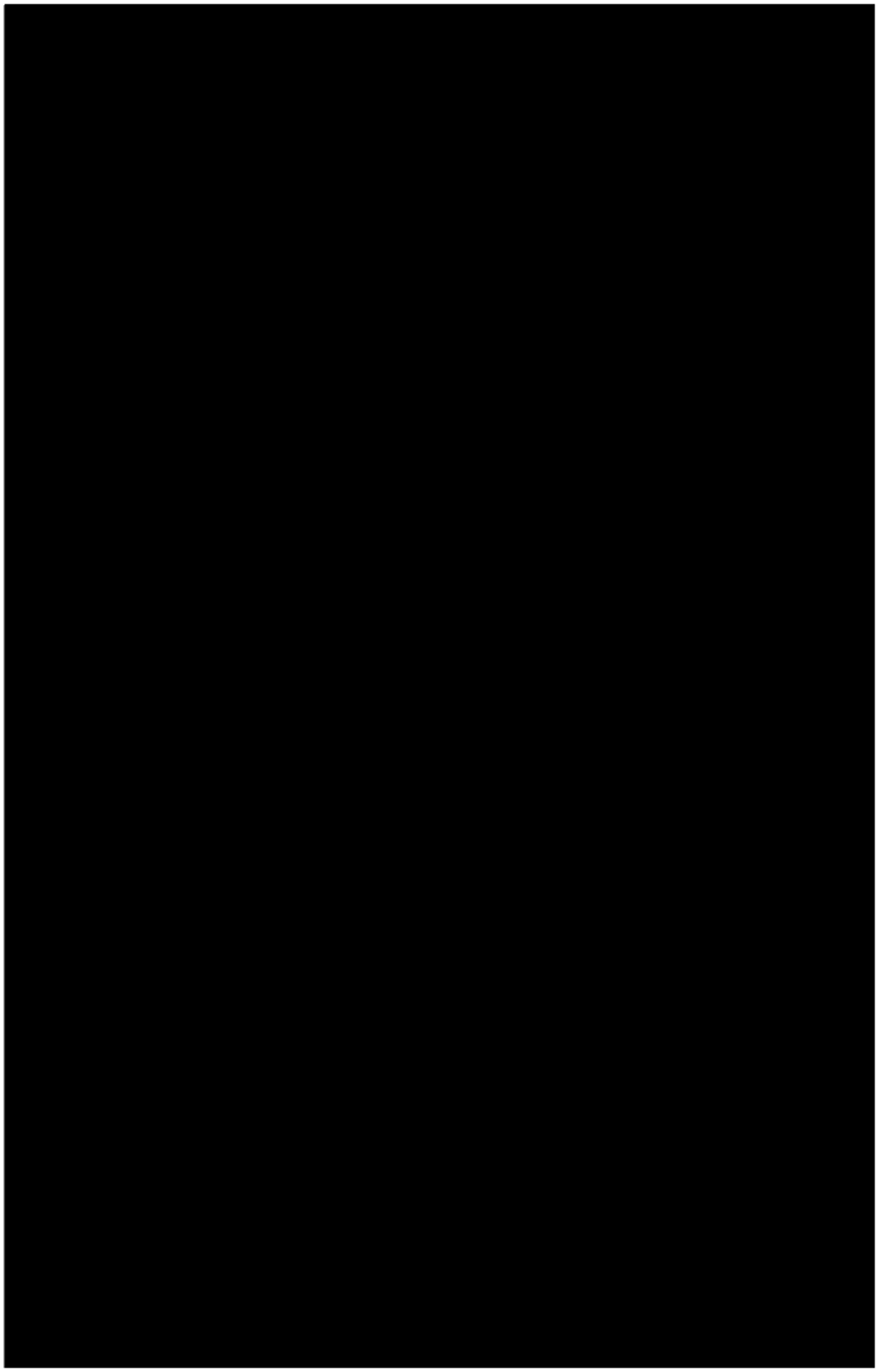


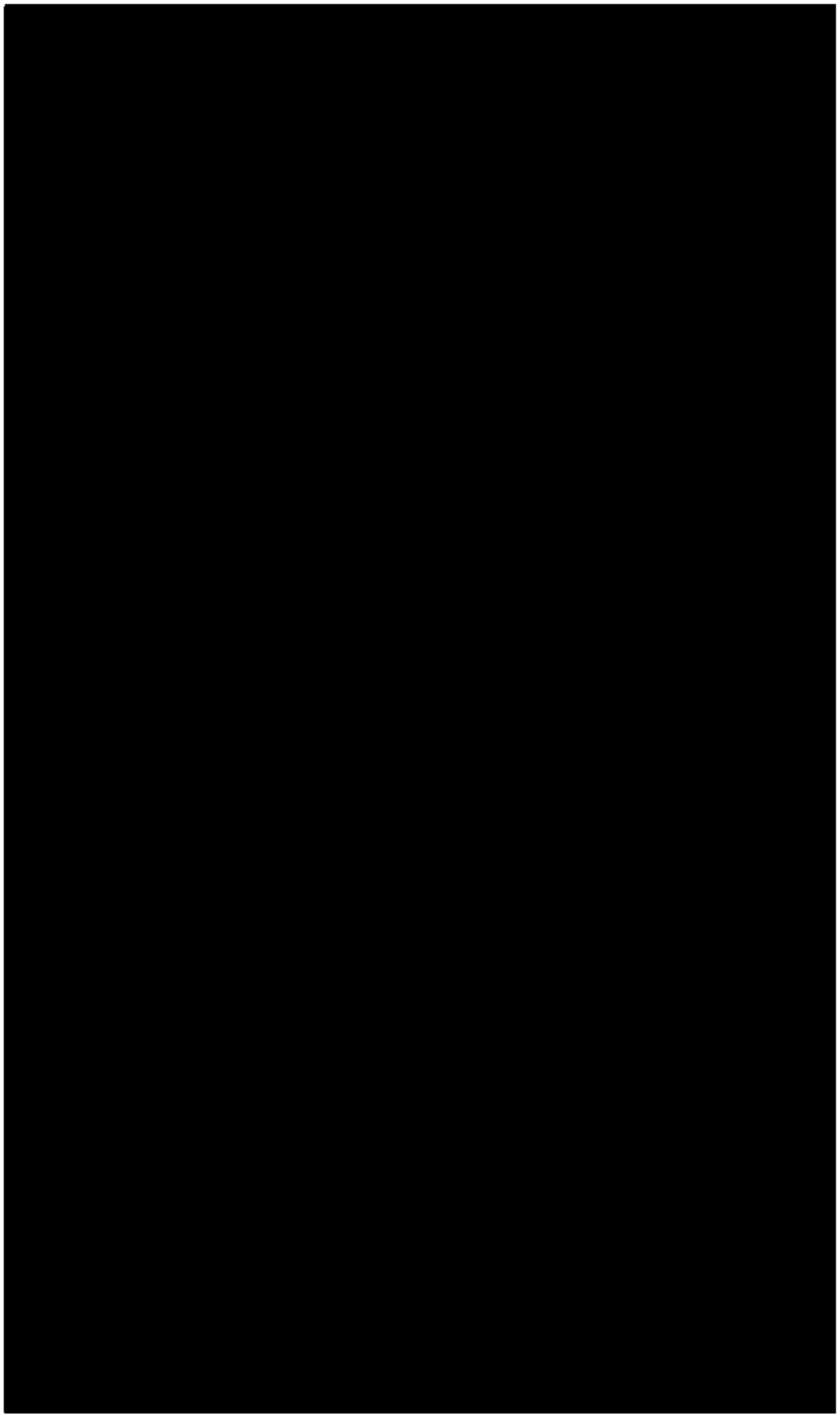


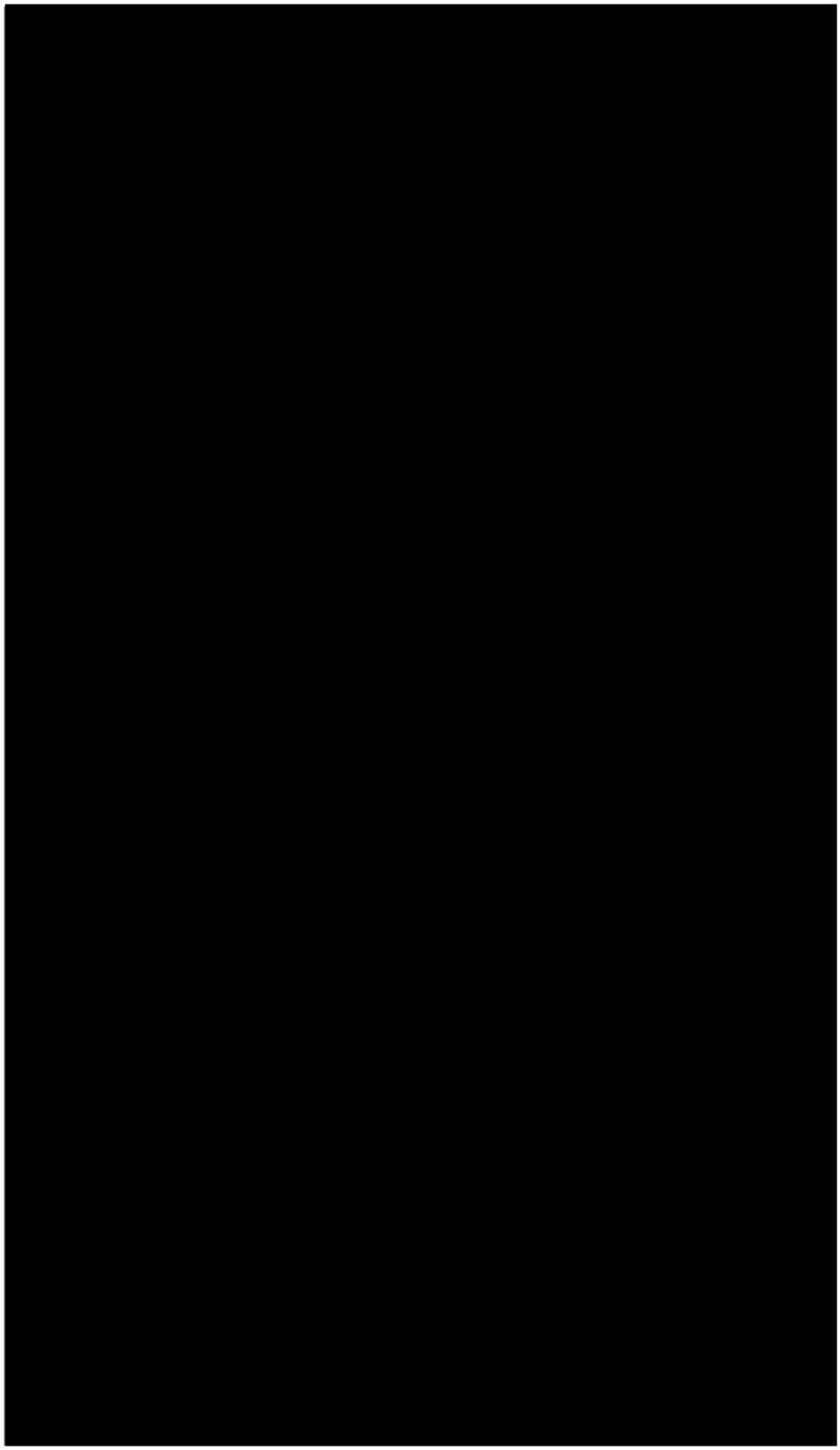


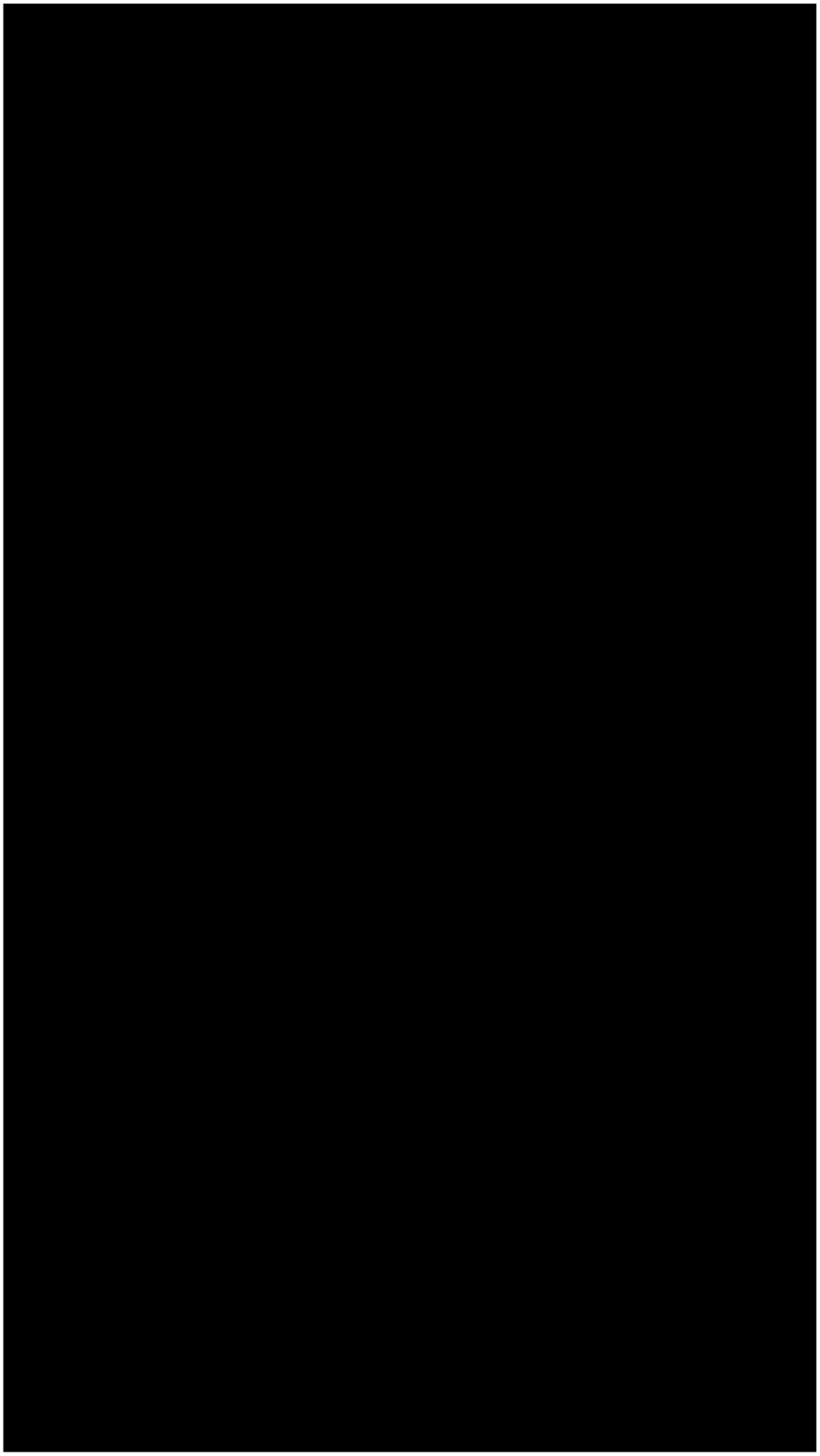


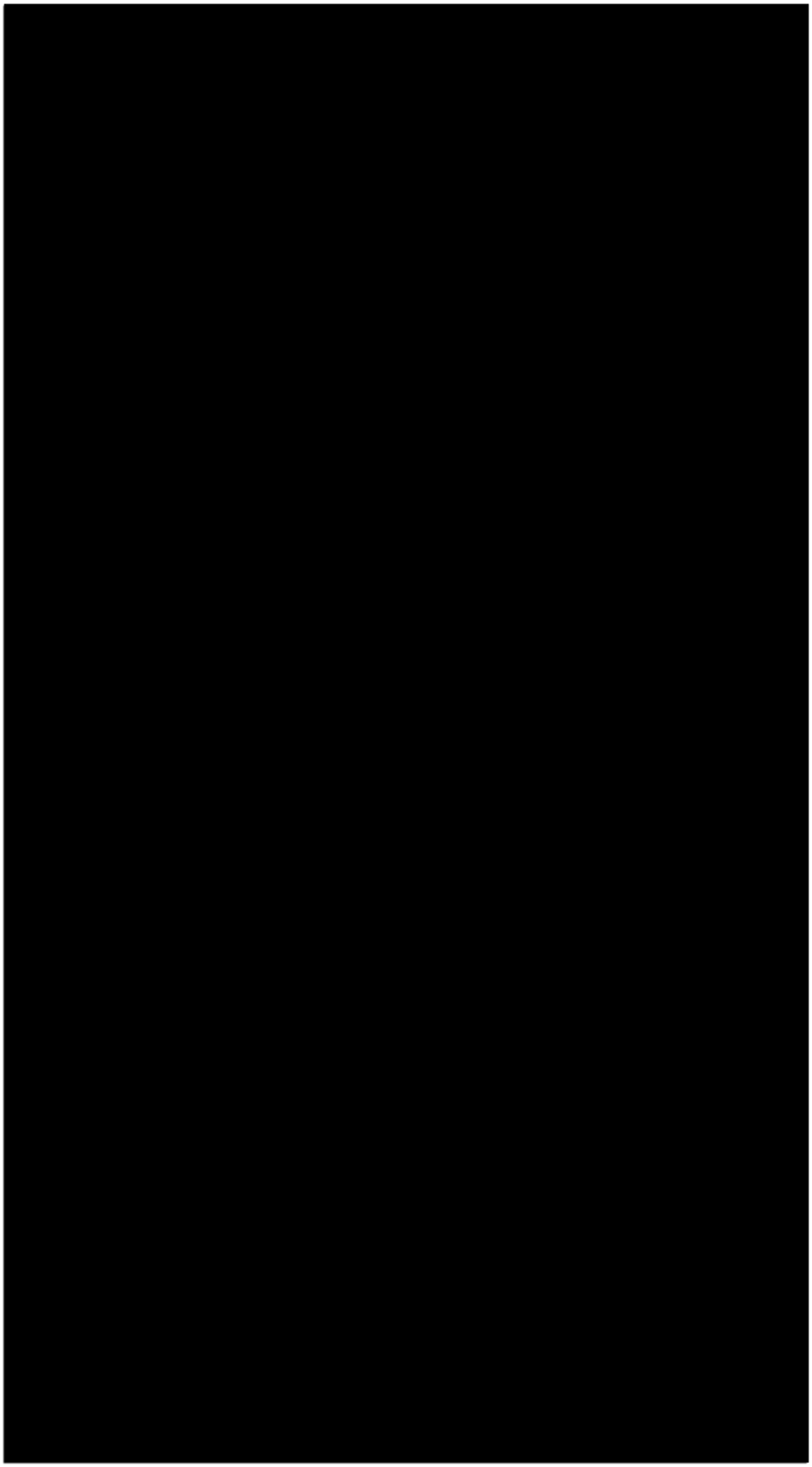


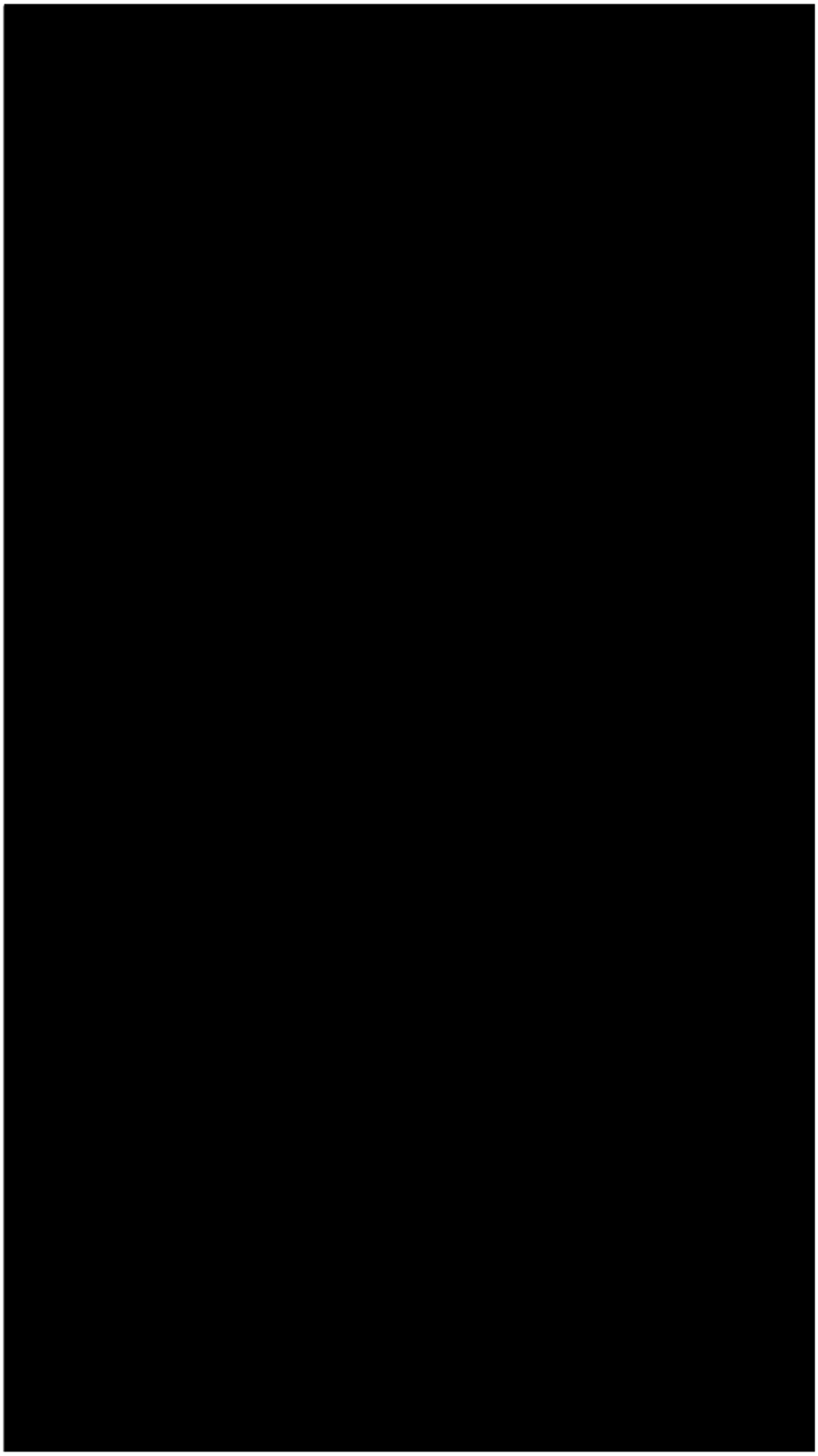


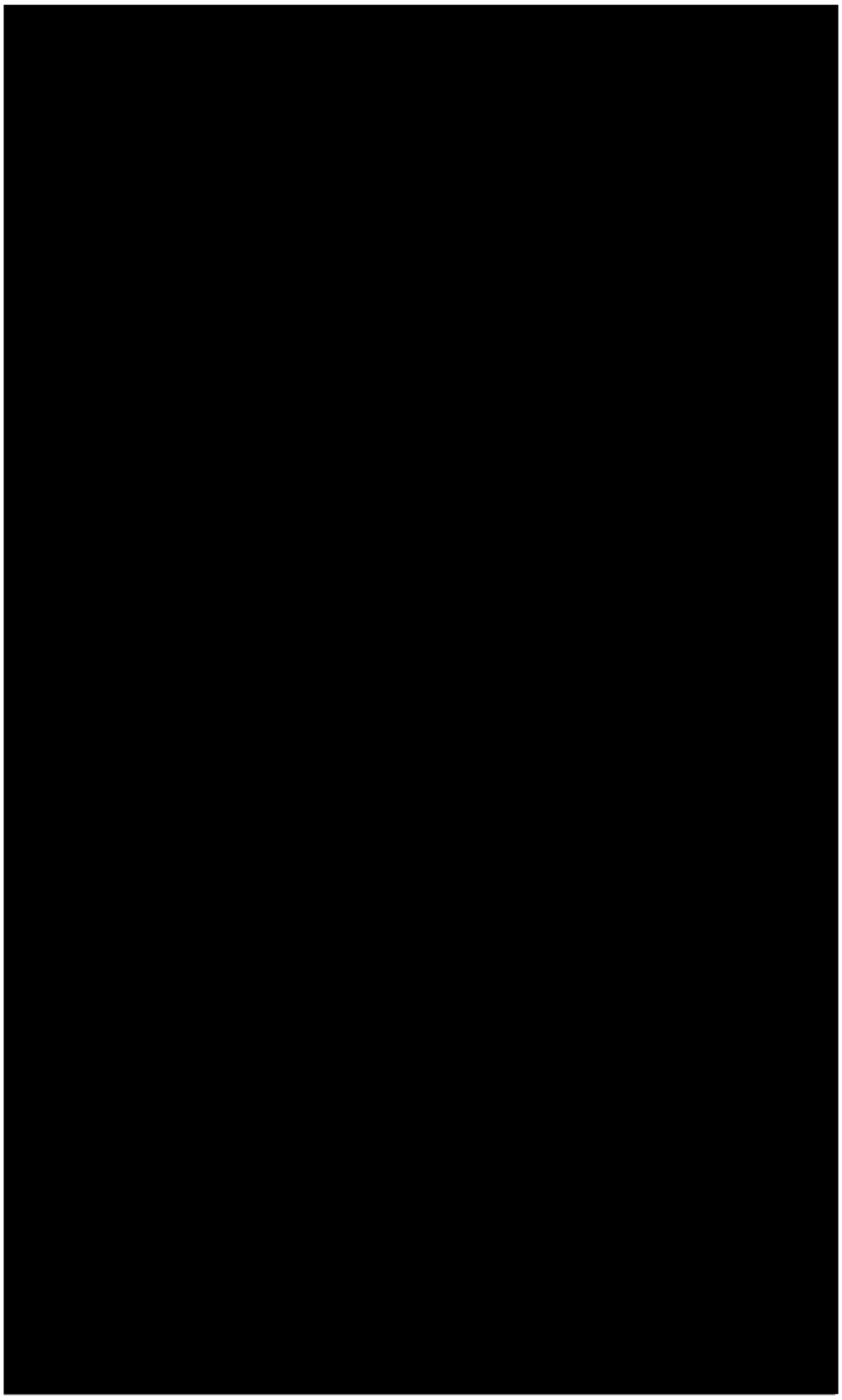


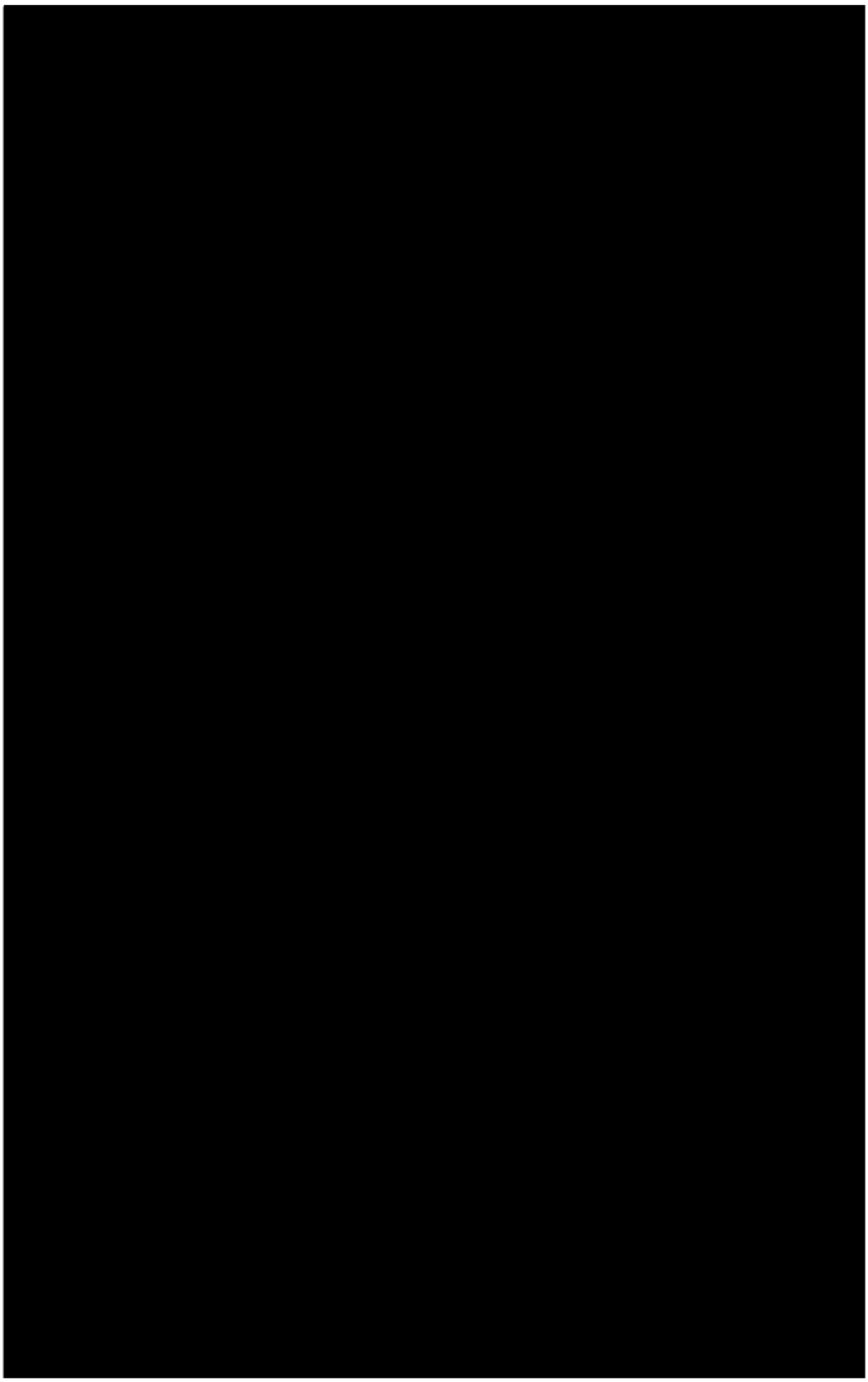


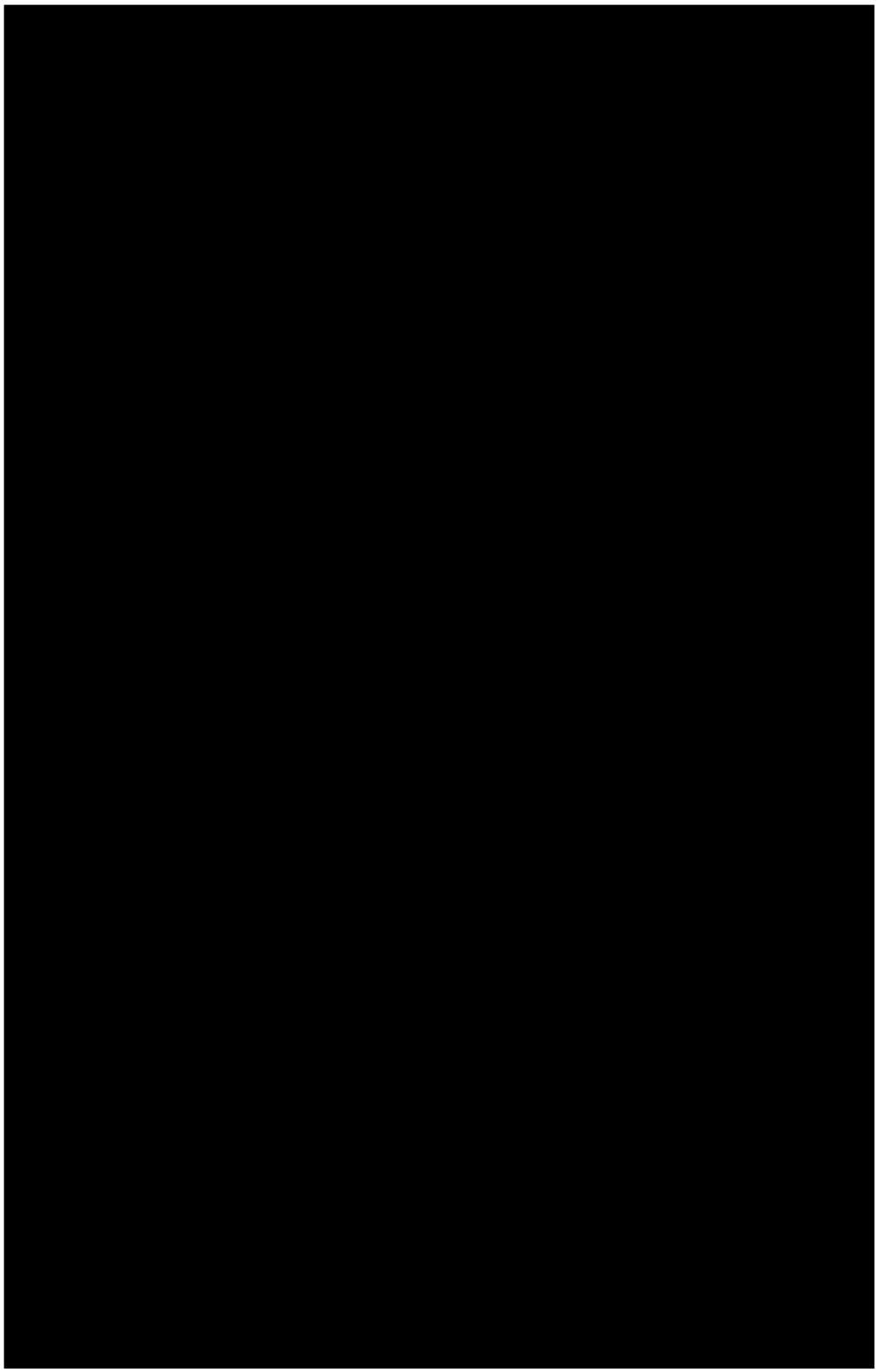


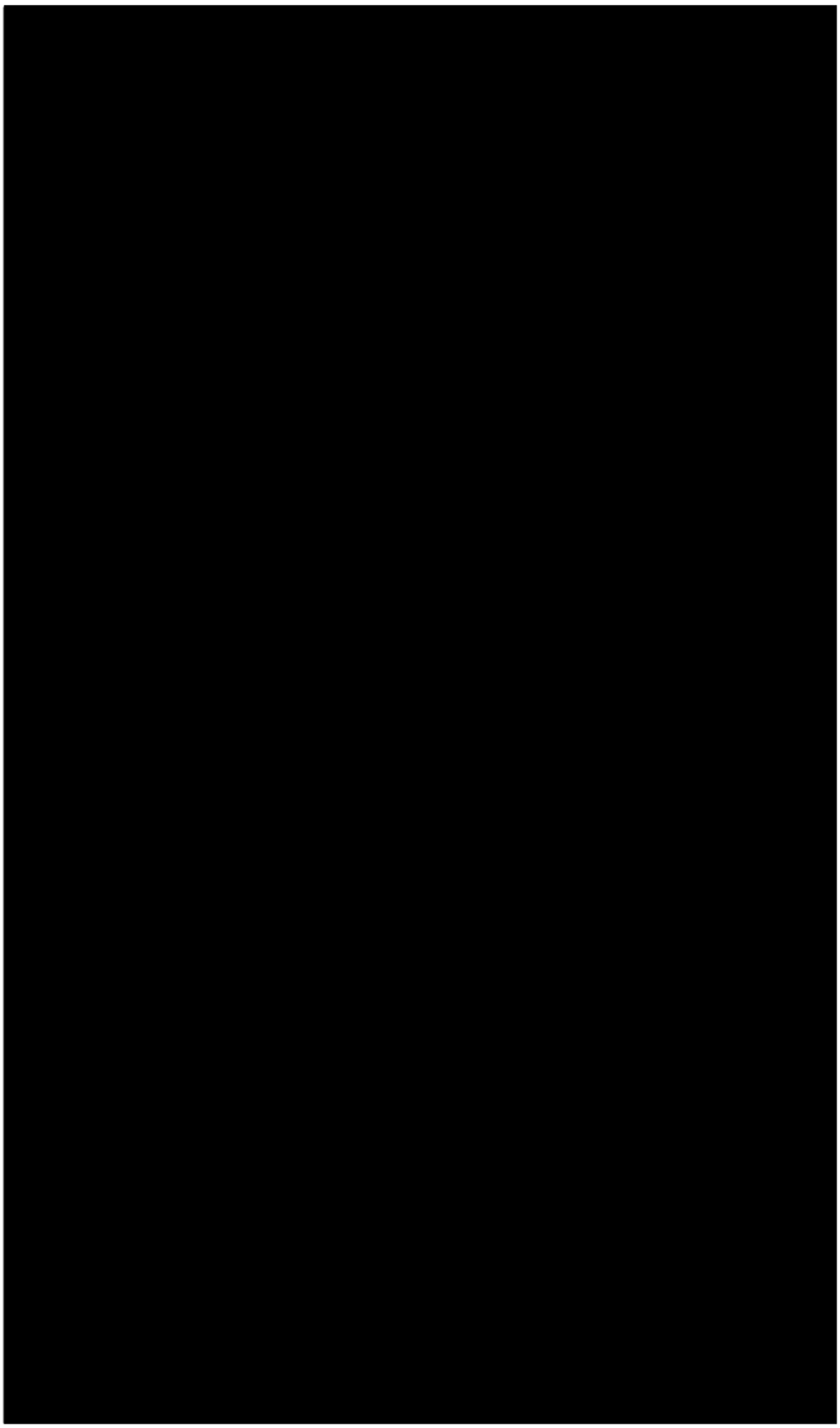


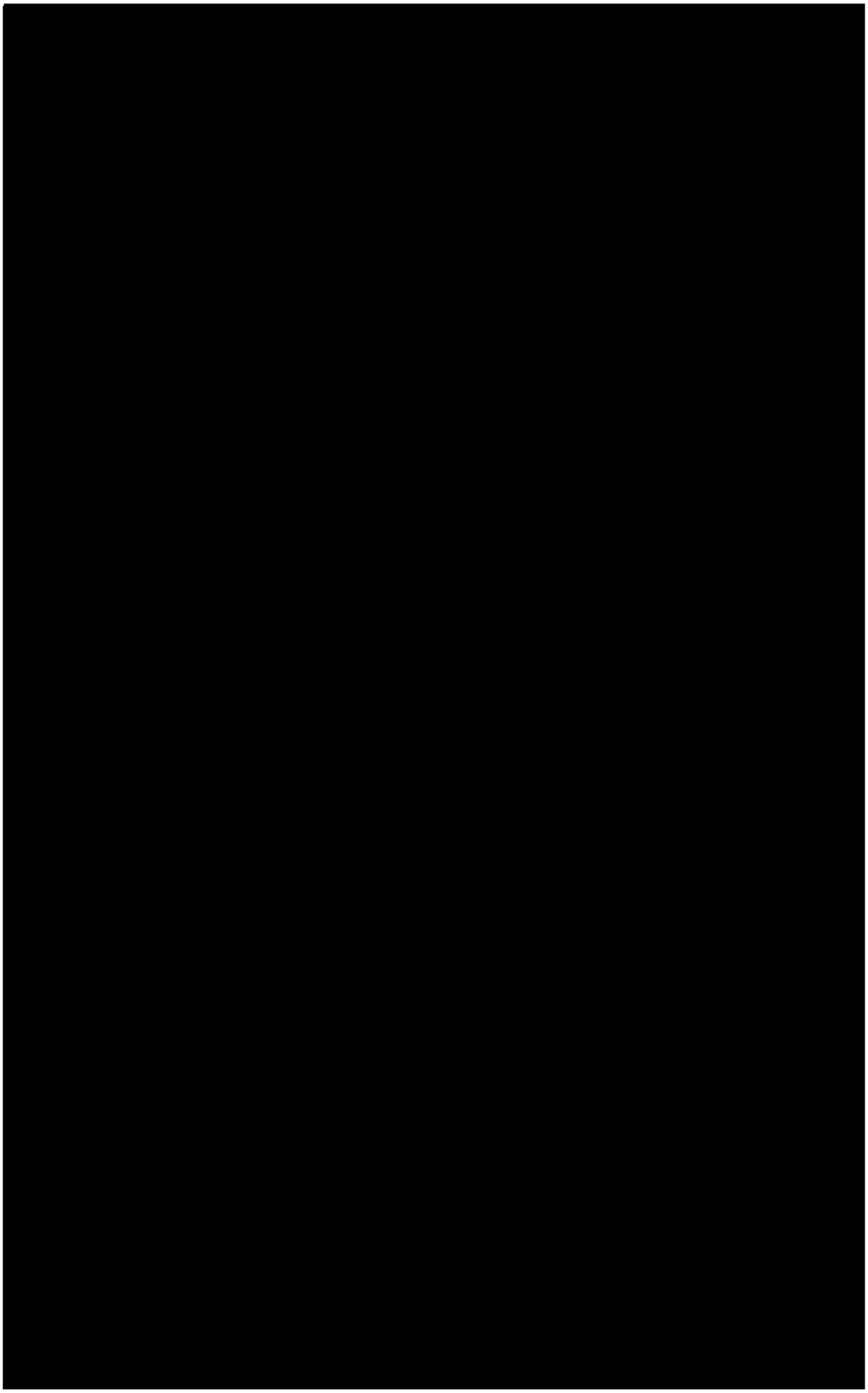


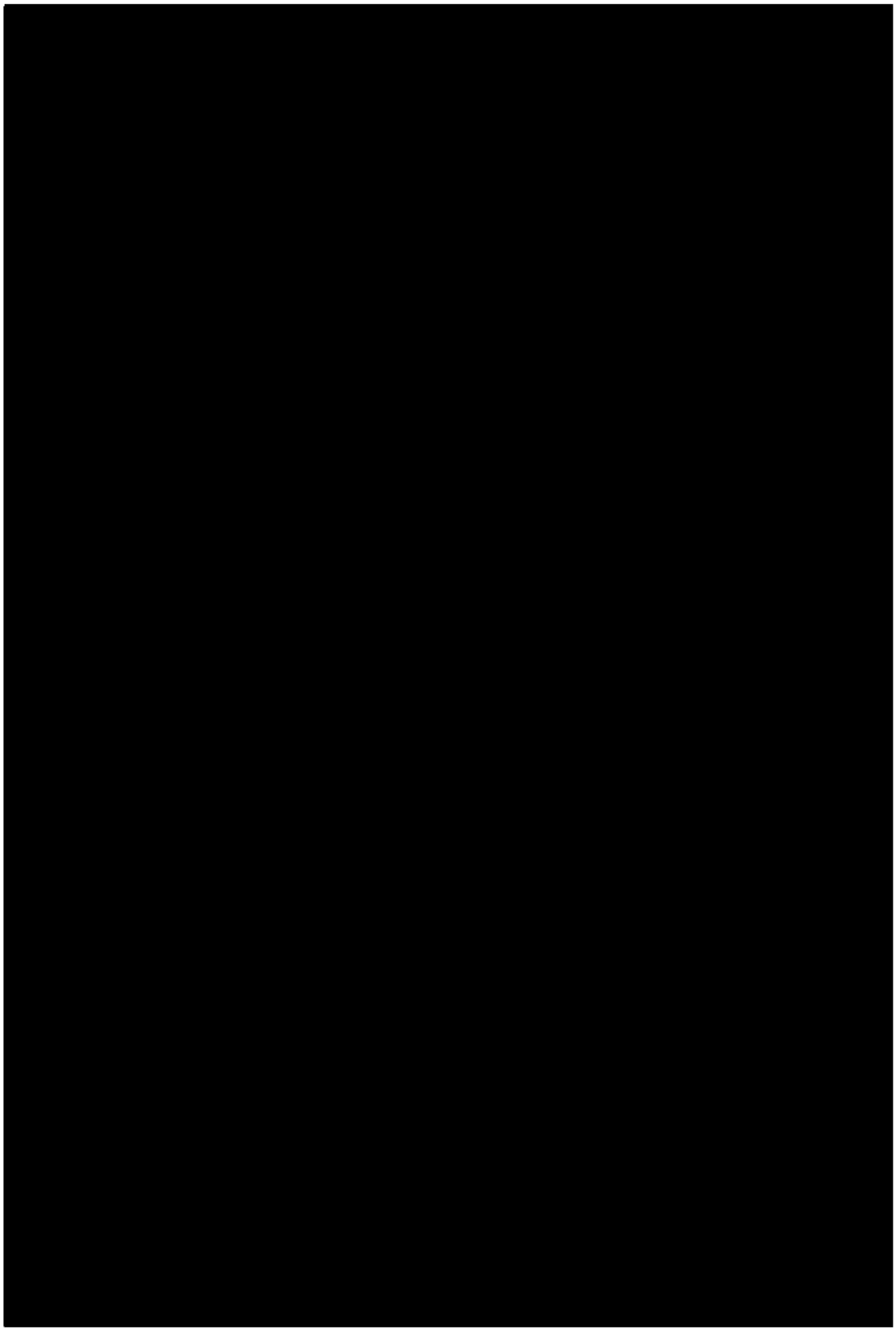


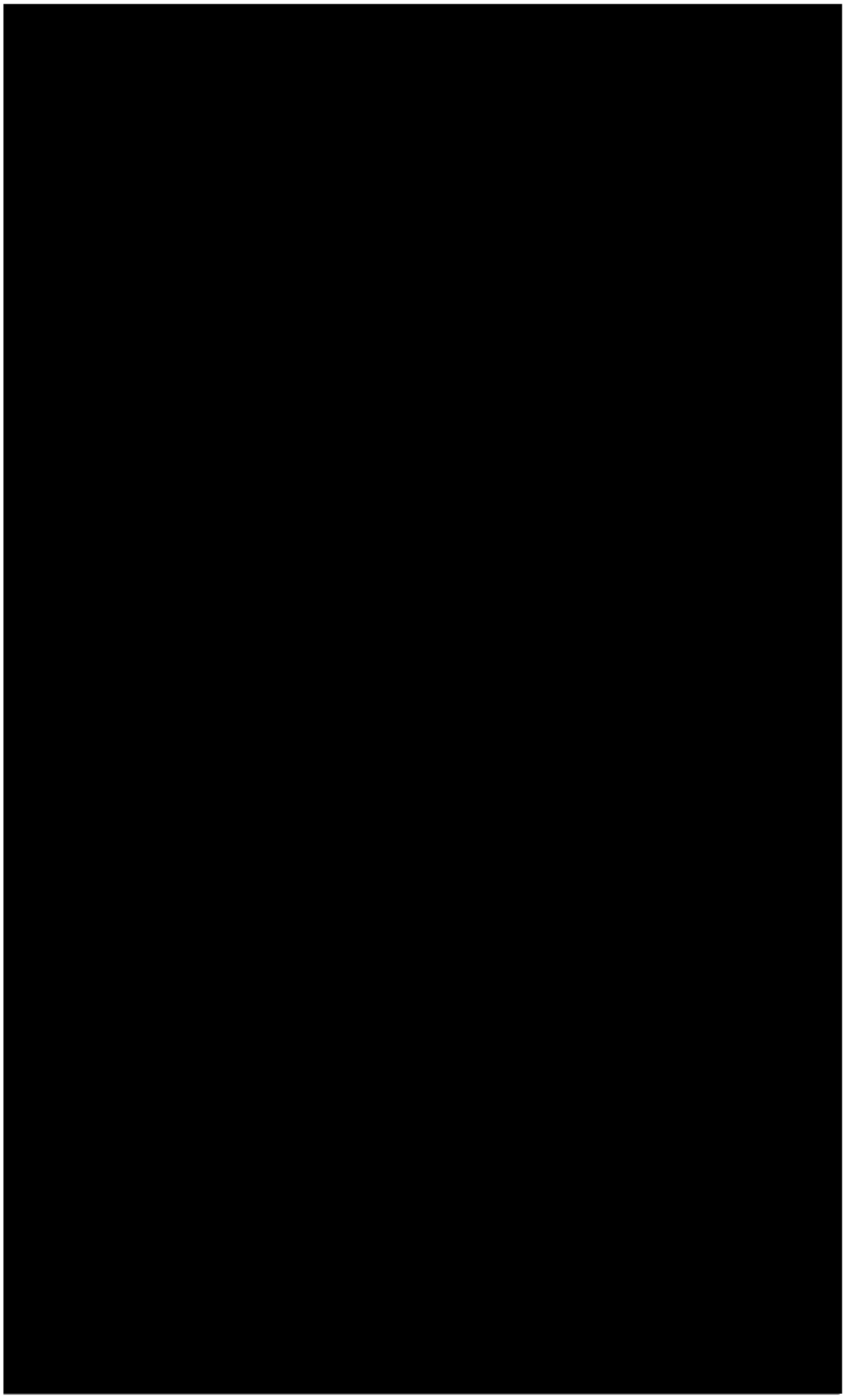


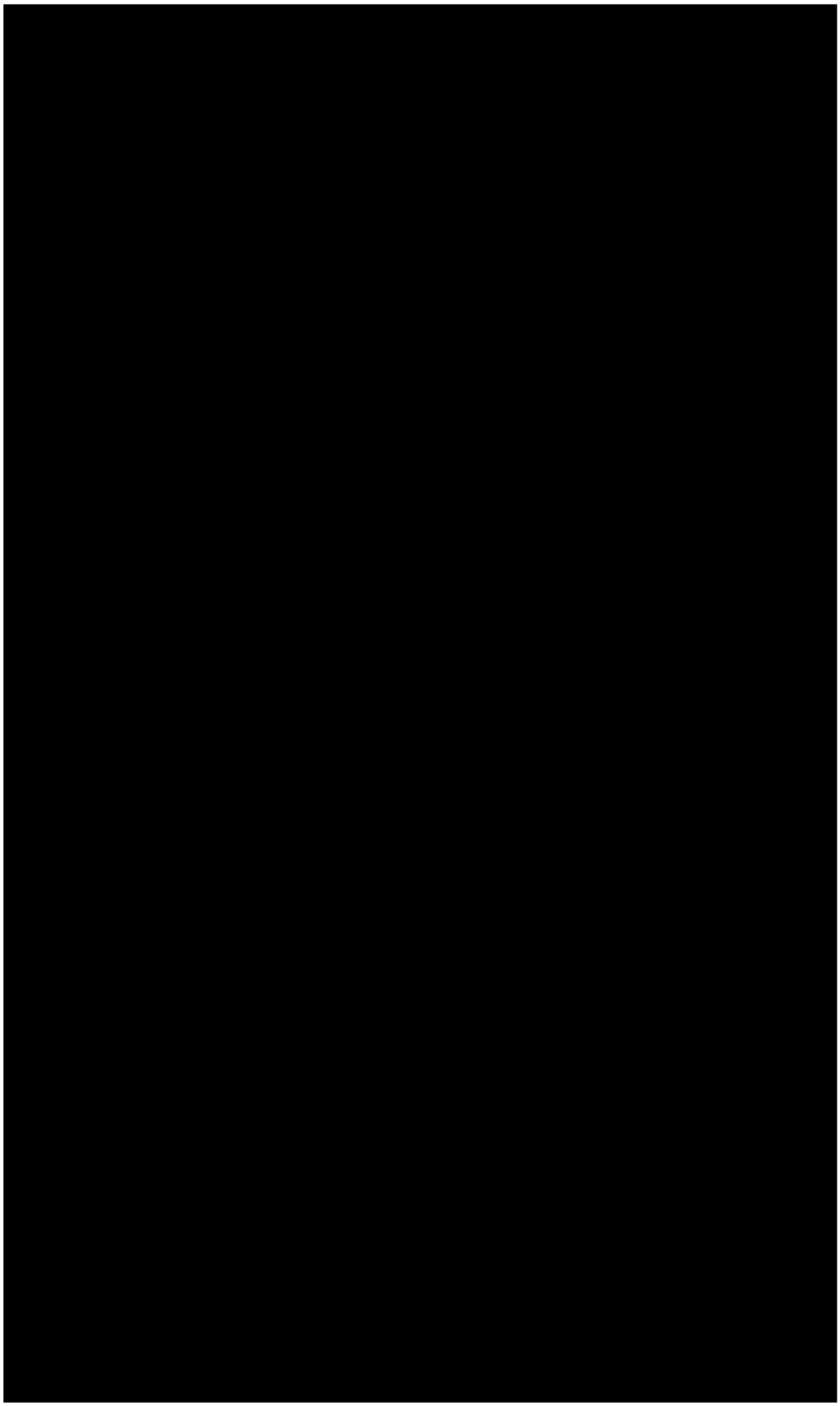


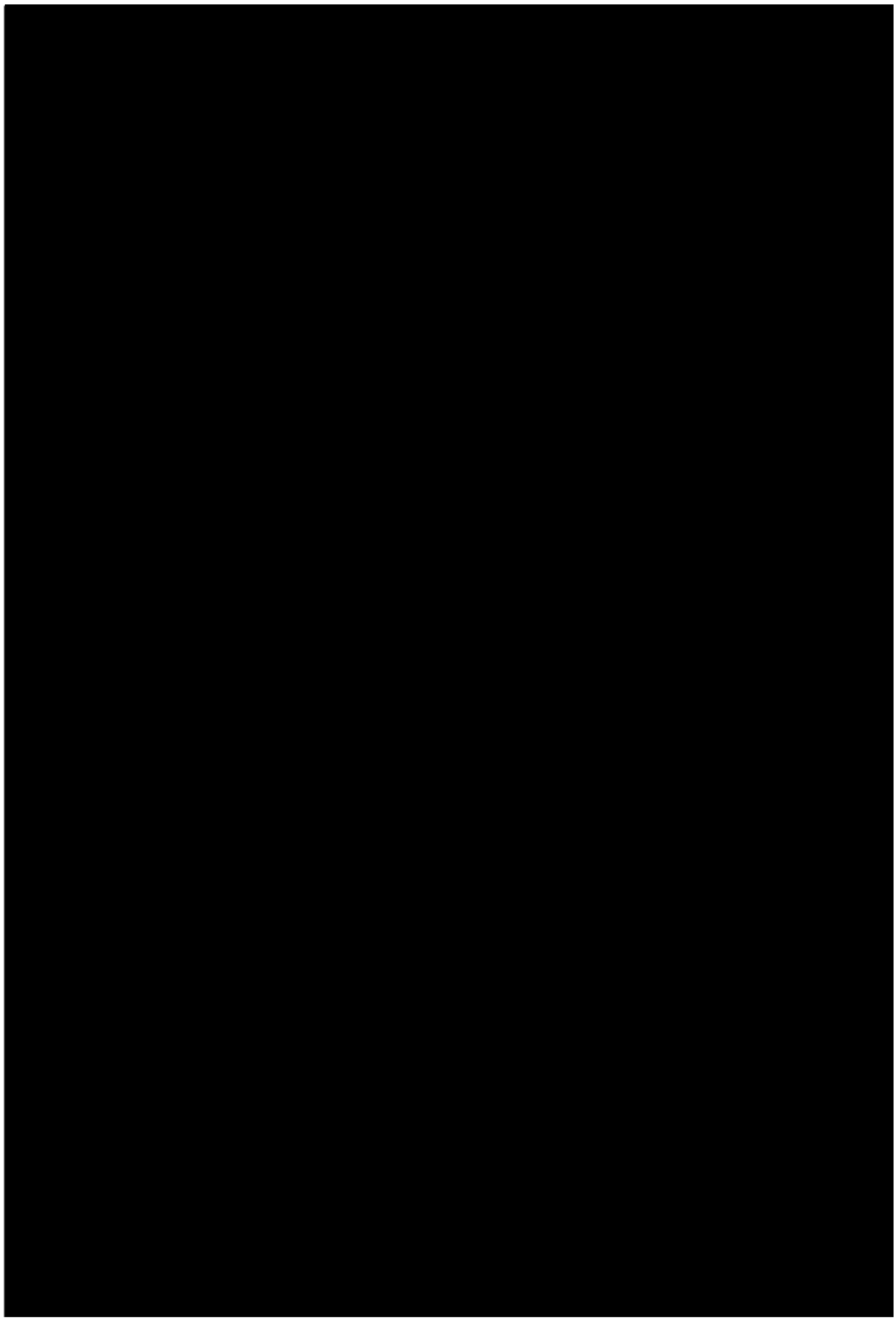


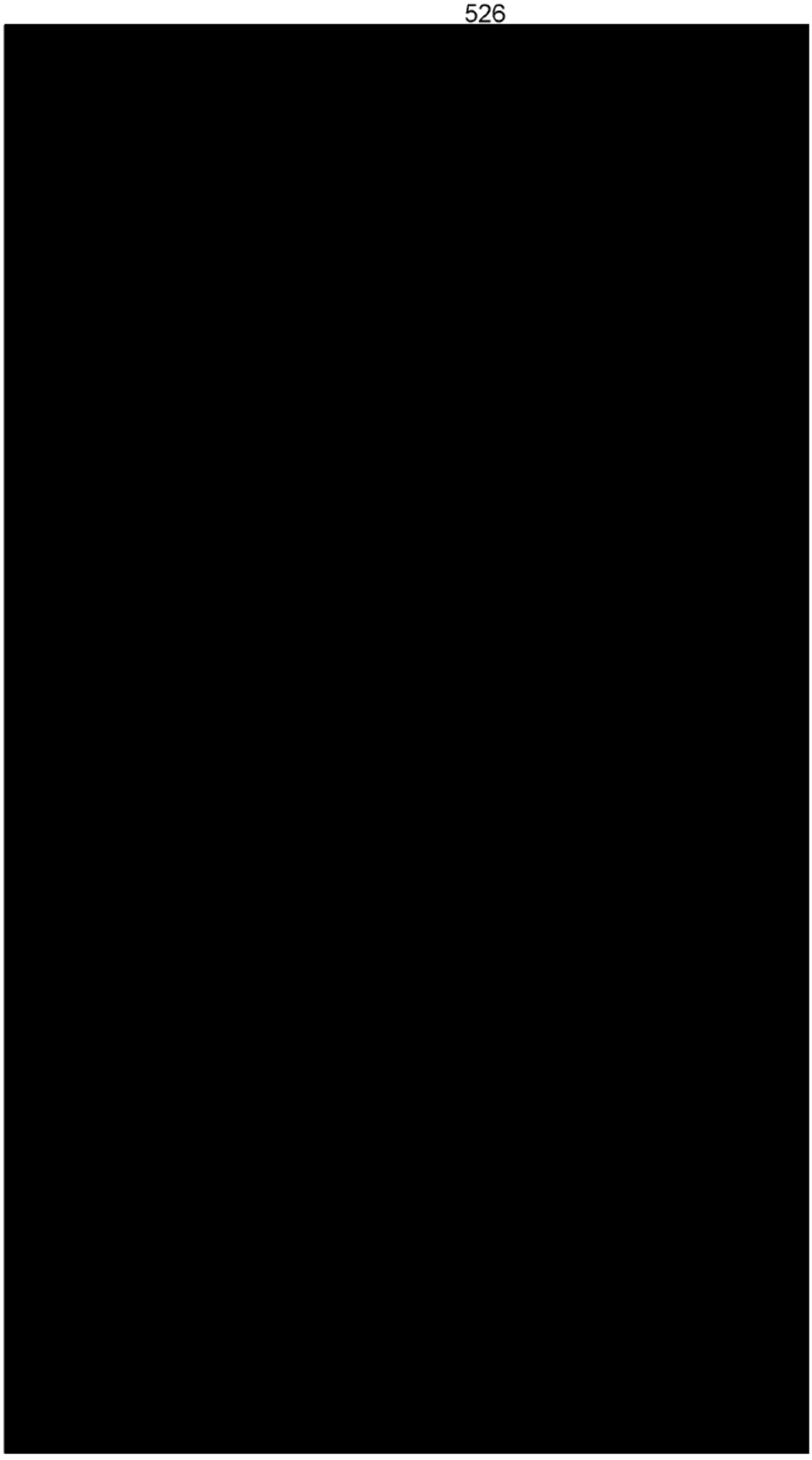


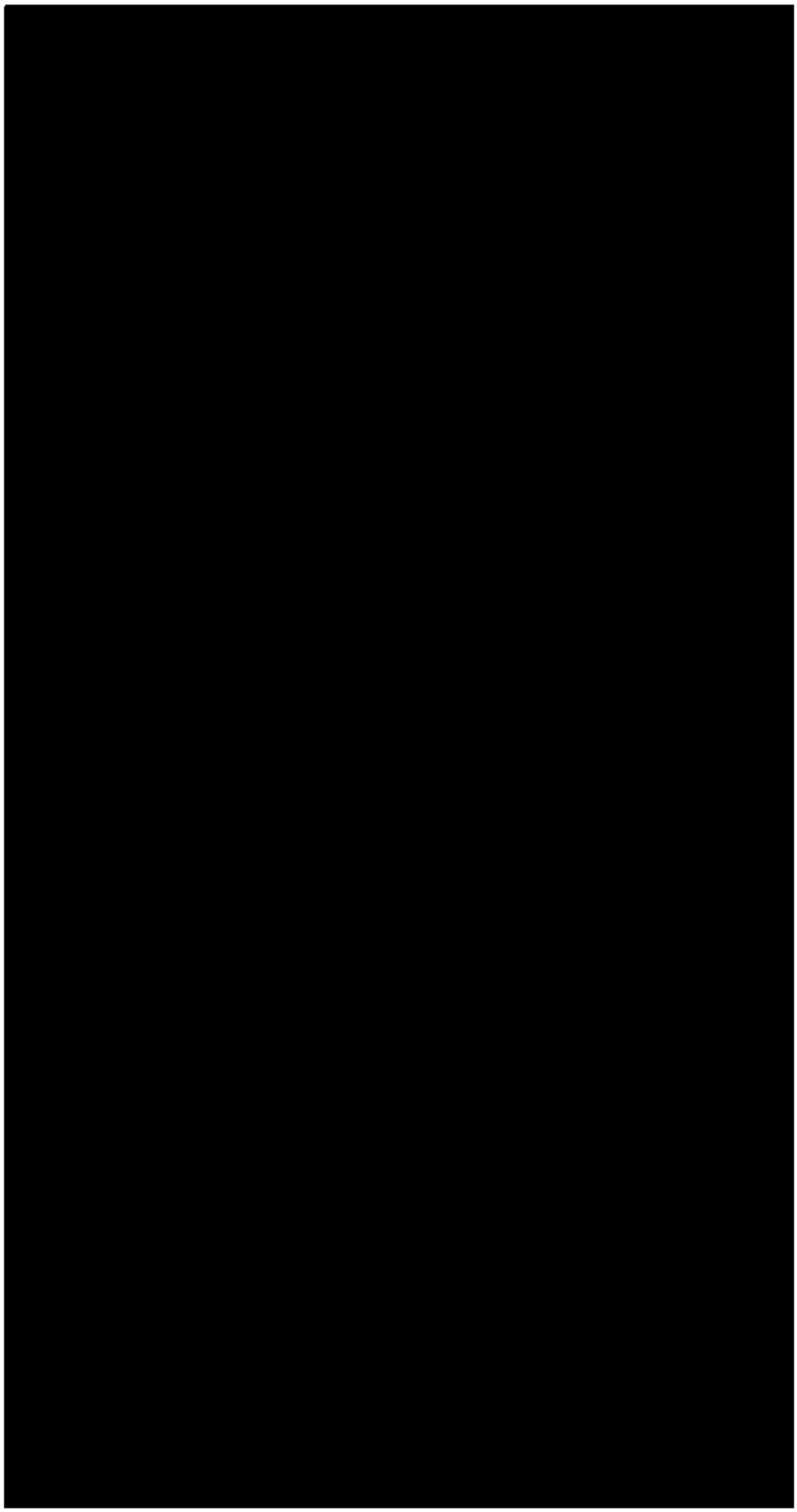


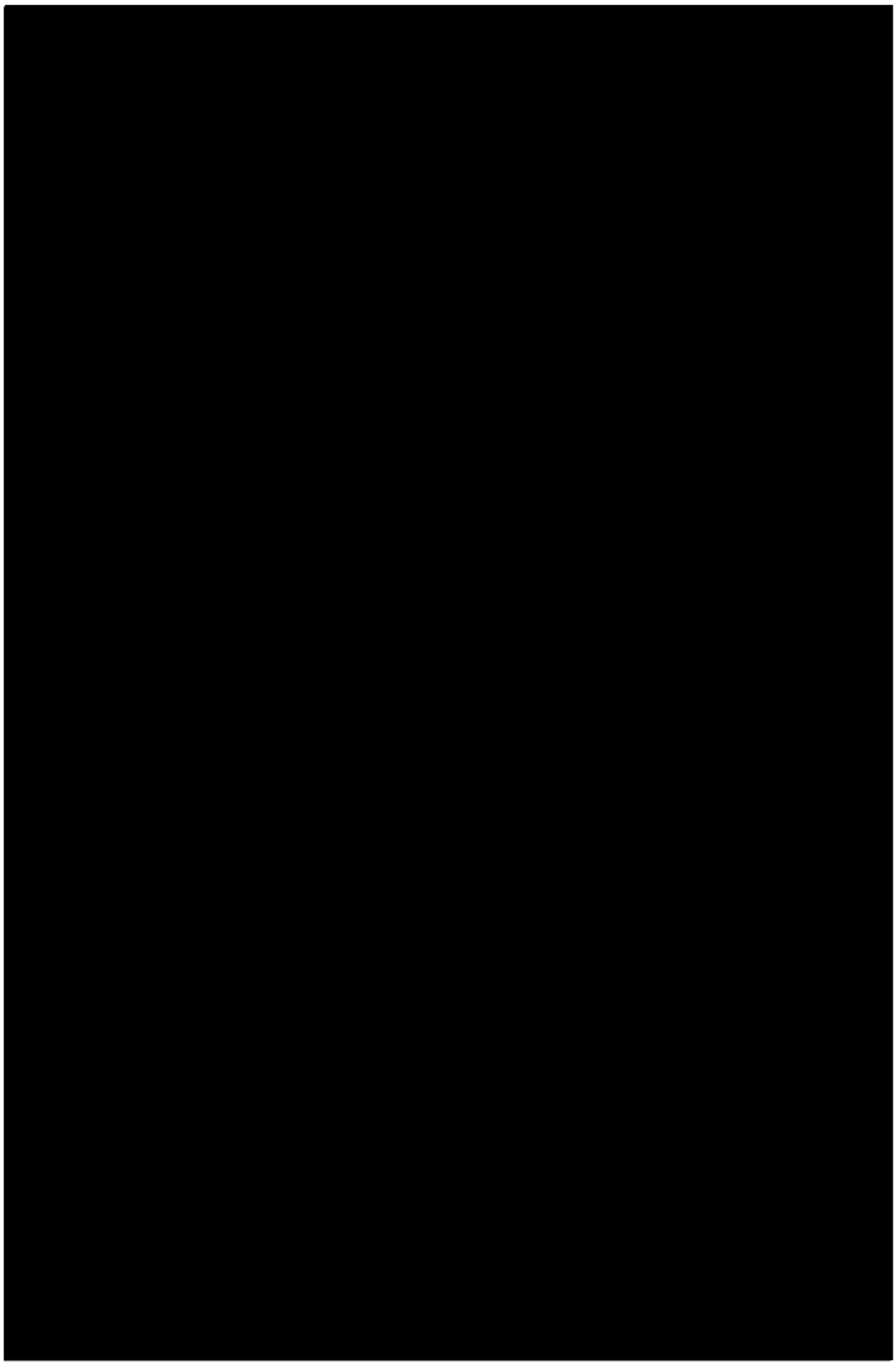


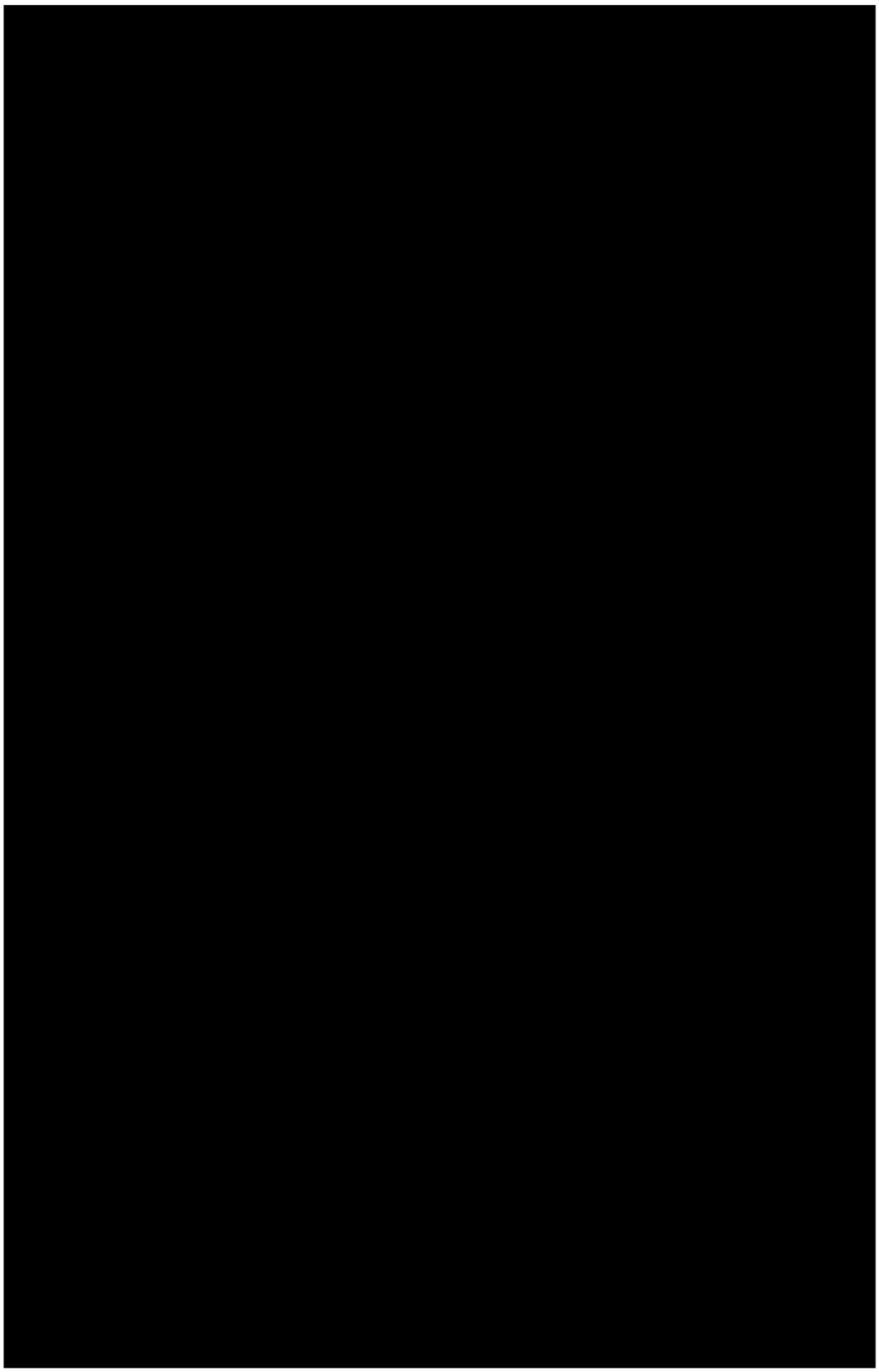


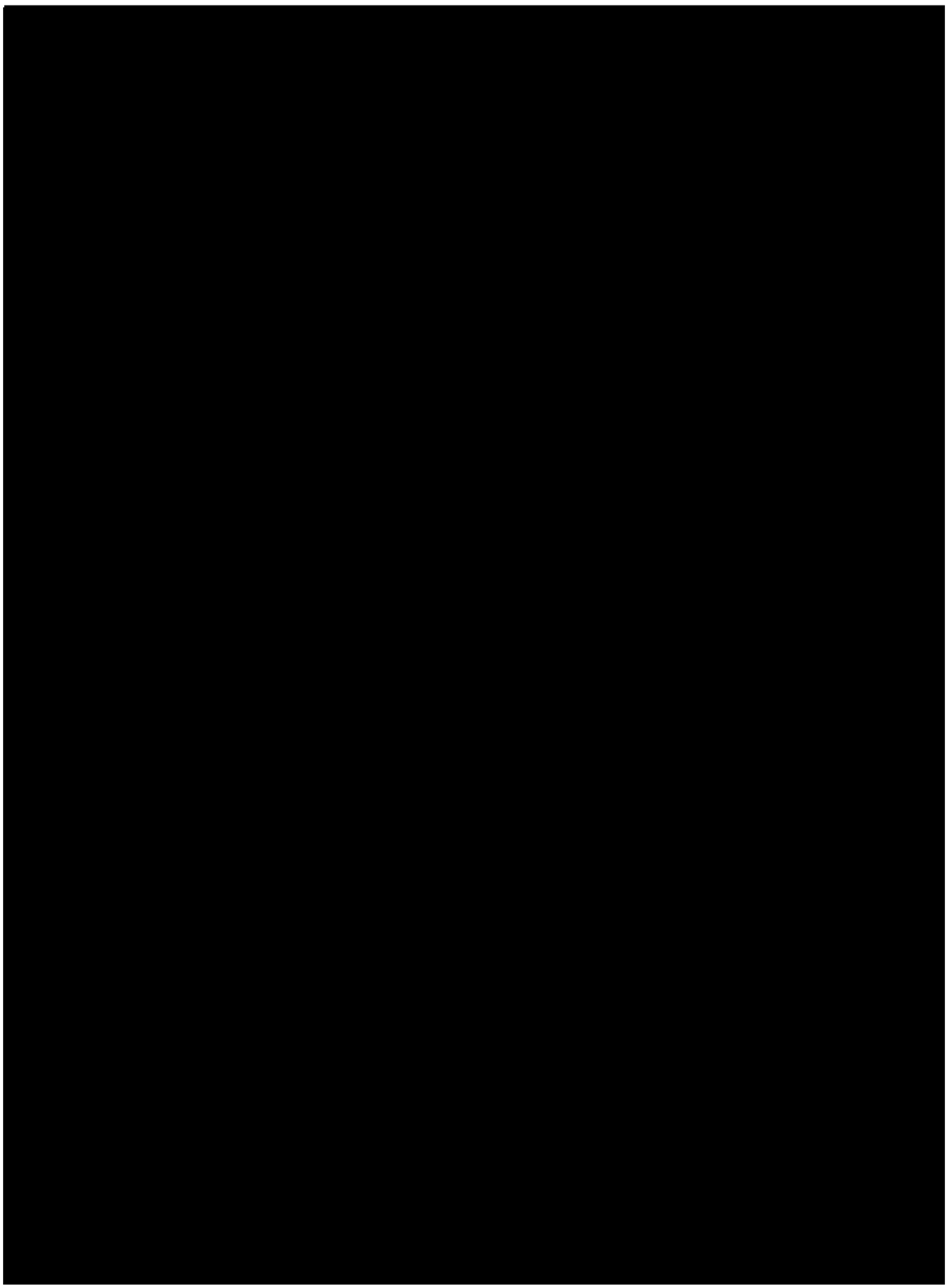


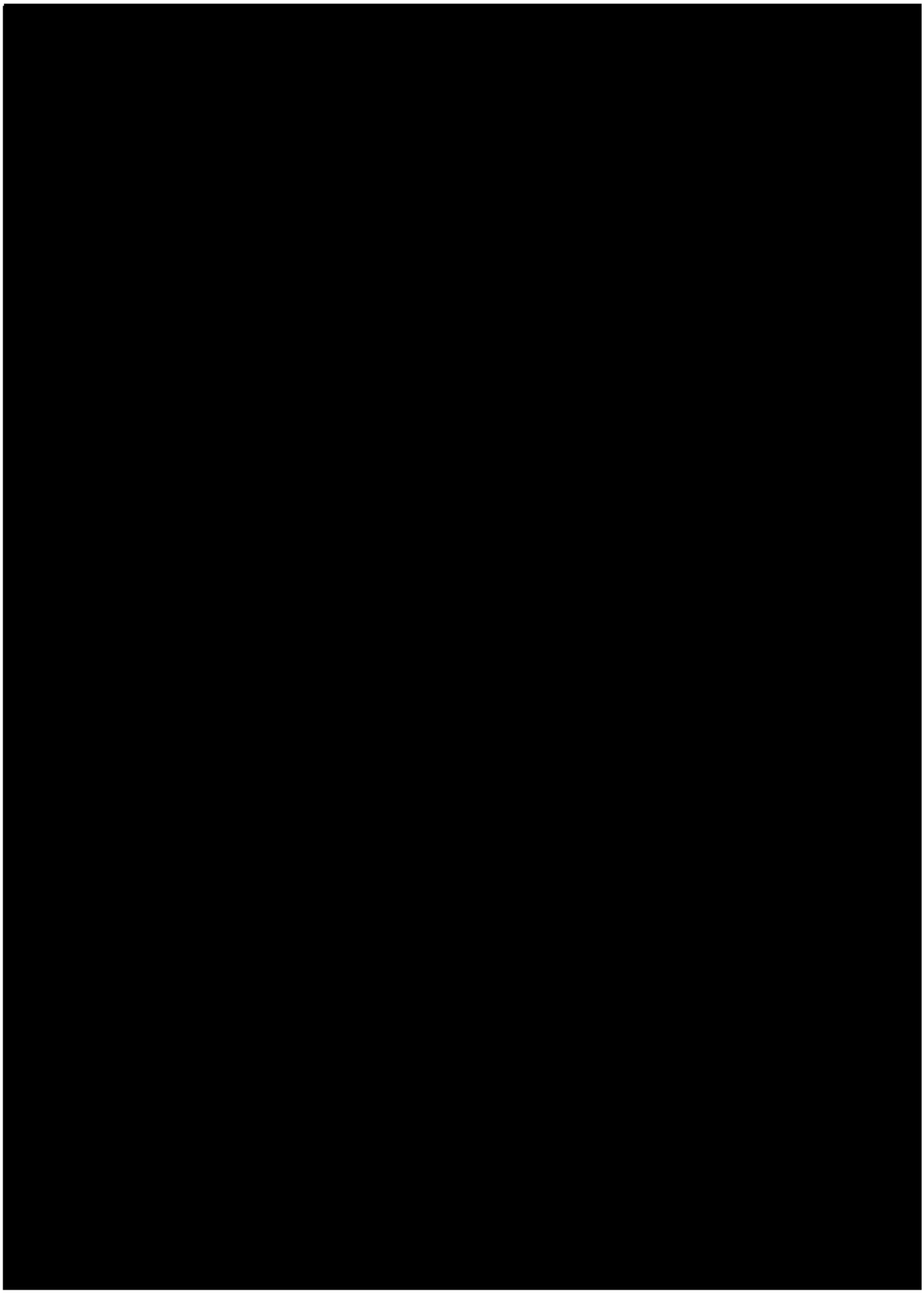


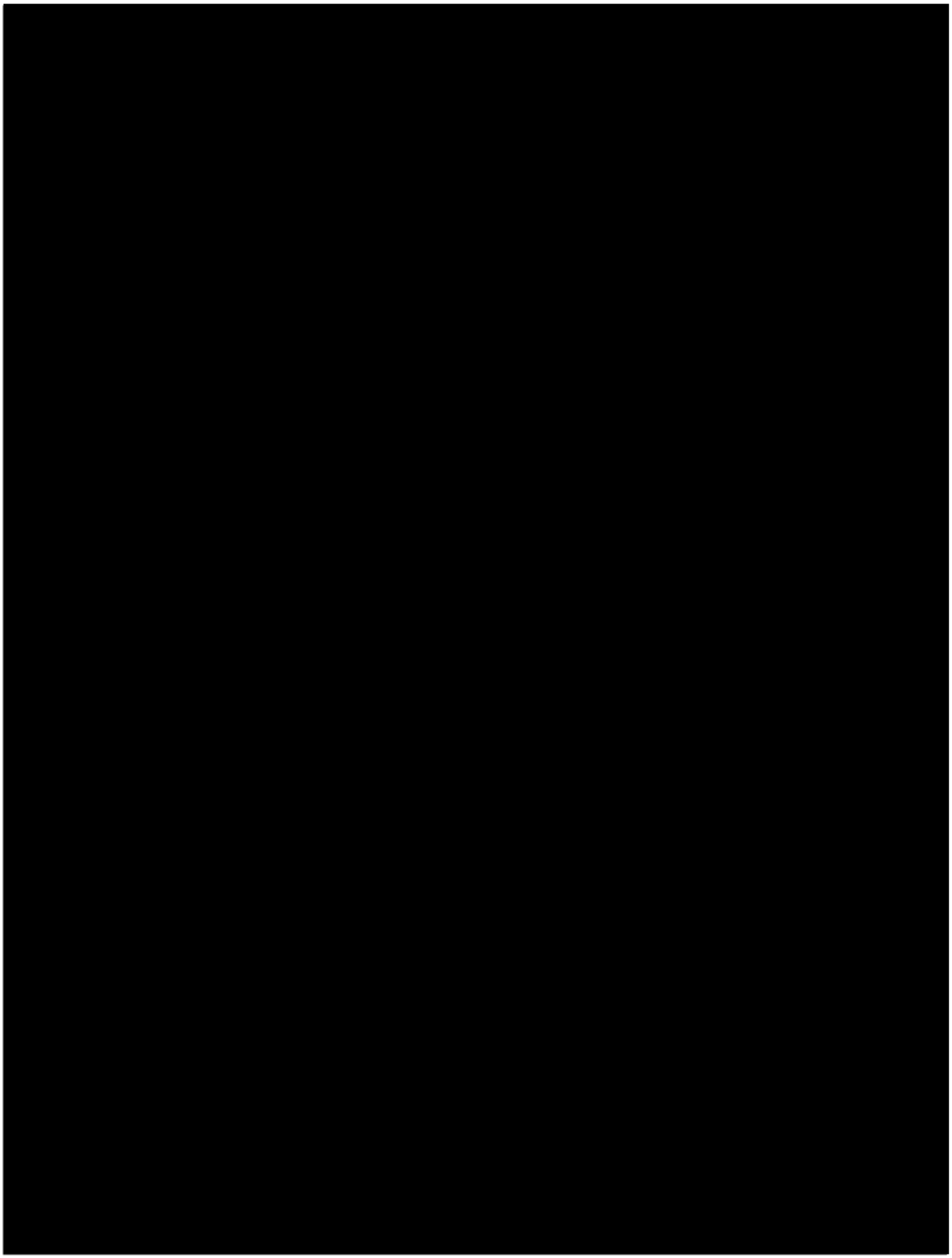


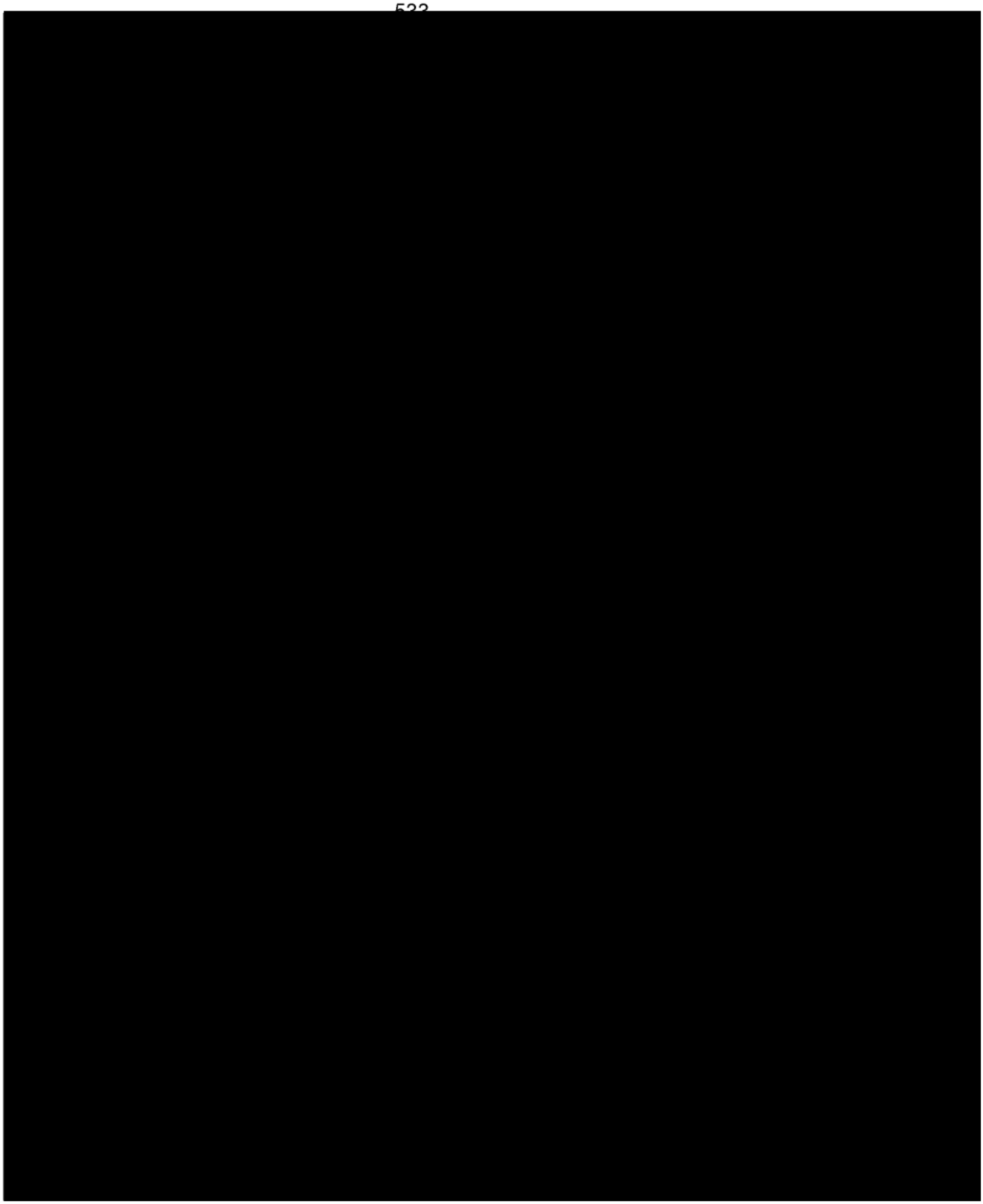












INDEX TO EXAMINATIONS

Examination	Page
Examination by Mr. Nicyper	350
Examination by Mr. Anderson	467
Examination by Mr. Jekel	532

- - -

INDEX TO EXHIBITS

Ewing Exhibit	Description	Page
[redacted]		
	Building, Old Pan Am Cargo Building	363
[redacted]		
[redacted]		

INDEX TO EXHIBITS

Ewing Exhibit	Description	Page
[redacted]		

STATE OF GEORGIA:

COUNTY OF FULTON:

I hereby certify that the foregoing transcript was reported, as stated in the caption, and the questions and answers thereto were reduced to typewriting under my direction; that the foregoing pages 347 through 537 represent a true, complete, and correct transcript of the evidence given upon said hearing, and I further certify that I am not of kin or counsel to the parties in the case; am not in the employ of counsel for any of said parties; nor am I in anywise interested in the result of said case.

Disclosure Pursuant to O.C.G.A. 9-11-28(d):

The party taking this deposition will receive the original and one copy based on our standard and customary per page charges. Copies to other parties will be furnished at one half that per page rate. Incidental direct expenses of production may be added to either party where applicable.

Our customary appearance fee will be charged to the party taking this deposition.

This, the 15th day of November, 1996.

FRANCES BUONO, CCR-B-791.
My commission expires on the
25th day of April, 1999.

DEPOSITION OF WILLIAM M. EWING/FCB

I do hereby certify that I have read all questions propounded to me and all answers given by me on the 13th day of November, 1996, taken before Frances Buono, and that:

1) There are no changes noted.
2) The following changes are noted:

Pursuant to Rule 30(7)(e) of the Federal Rules of Civil Procedure and/or the Official Code of Georgia Annotated 9-11-30(e), both of which read in part: Any changes in form or substance which you desire to make shall be entered upon the deposition...with a statement of the reasons given...for making them. Accordingly, to assist you in effecting corrections, please use the form below:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

DEPOSITION OF WILLIAM M. EWING/FCB

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

DEPOSITION OF WILLIAM M. EWING/FCB

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

DEPOSITION OF WILLIAM M. EWING/FCB

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

Page No. Line No. should read:

And the reason for the change is:

If supplemental or additional pages are necessary, please furnish same in typewriting annexed to this deposition.

WILLIAM M. EWING

Sworn to and subscribed before me, this the day of , 1996.

Notary Public

My commission expires:

AMENDED CERTIFICATE

STATE OF GEORGIA:

COUNTY OF FULTON:

I hereby certify that in addition to the certification made on Page 538 of the transcript, more than 30 days provided the deponent to read and sign the original transcript has expired. Therefore, the original is being filed without the signature of the witness.

This, the day of , 1996.

Frances Buono, CCR-B-791
Certified Court Reporter
and Notary Public.

AMENDED CERTIFICATE

STATE OF GEORGIA:

COUNTY OF FULTON:

I hereby certify that in addition to the certification made on Page 538 of the transcript, this deposition is being filed pending the witness' right to review said deposition within 30 days, which time has not elapsed.

This, the day of , 1996.

Frances Buono, CCR-B-791
Certified Court Reporter
and Notary Public.

23

24

25

UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF NEW YORK
----------X
THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY (formerly known as "The Port of New York Authority") and PORT AUTHORITY TRANS-HUDSON CORPORTION,

Plaintiffs,

-against- 91 Civ. 0310 (CLB)

ALLIED CORPORATION (individually) and as a Subsidiary of "ALLIED-SIGNAL, INC."), et al.,

Defendants.
----------X
UNITED STATES MINERAL PRODUCTS COMPANY and DALEN (formerly Isolatek Corp.),

Third-Party Plaintiff,

-against-

TISHMAN REALTY AND CONSTRUCTION CO., INC., et_ano,

— ——

Third-Party Defendants.
----------X

June 24, 1996
10:10 a.m.

Deposition of FRANK GRILL, taken by Defendant W.R. Grace & Company - Connecticut, at the offices of Flemming Zulack & Williamson, LLP, One Liberty Plaza, New York, New York, before Eileen

M. Campbell, a Shorthand Reporter and Notary Public within and for the State of New York.

A P P E A R A N C E S:

CHRISTY GRUENLOH, ESQ.
Attorney for Plaintiff
The Port Authority of New
York & New Jersey
One World Trade Center, 68N
New York, New York 10048

FLEMMING ZULACK & WILLIAMSON, LLP.
Attorneys for Defendant W.R. Grace &
Company - Connecticut
One Liberty Plaza
New York, New York 10006-1404
BY: DEAN NICYPER, ESQ.,
Of Counsel

FLEMMING ZULACK & WILLIAMSON, LLP.
Attorneys for Defendant GAF Corp.
One Liberty Plaza
New York, New York 10006-1404
BY: CYNTHIA WATKINS, ESQ.,
Of Counsel

23

24

25

E X H I B I T S

DEFENDANT'S EXHIBITS GRILL:

EXHIBIT NUMBER	EXHIBIT DESCRIPTION	PAGE
1	Supboena with attachment	12
1-A	Subpoena with highlighting	56
2	Port Authority of NY & NJ Asbestos Certification Letter and Permit Application Y-6112 with Waiver Letter	136
3	Port Authority of NY & NJ Asbestos Certification Letter and Permit Application Y-6142A with Waiver Letter	146
4	5/11/90 buckslip from P. Fernandez to K. Bleach with Port Authority of NY & NJ Asbestos Certification Letter and Permit Application Y-6256A and Waiver Letter	148
5	Port Authority of NY & NJ	

23 Asbestos Certification Letter
24 and Permit Application Y-6110A
25 with Waiver Letter 151

E X H I B I T S (cont'd.)

DEFENDANT'S EXHIBITS GRILL:

EXHIBIT NUMBER	EXHIBIT DESCRIPTION	PAGE
6	6/20/86 letter to Abe Friedman from Larry Goldberg	182

I N D E X

EXAMINATION BY	PAGE
Mr. Nicyper	6

INFORMATION AND/OR DOCUMENTS REQUESTED

PAGE	LINE
121	25

23

24

25

IT IS HEREBY STIPULATED AND AGREED by and between the counsel for the respective parties hereto, that the filing, sealing and certification shall be and the same are hereby waived;

IT IS FURTHER STIPULATED AND AGREED that all objections, except as to the form of the question, shall be reserved to the time of the trial;

IT IS FURTHER STIPULATED AND AGREED that the within deposition may be signed before any Notary Public with the same force and effect as if signed and sworn to before the Court.

23

24

25

F R A N K G R I L L,
residing at 4323 220th Street, Bayside, New York 11361-3351, having been first duly sworn by the Notary Public, was examined and testified as follows:

EXAMINATION BY
MR. NYCIPER:

Q. Would you please state your full name for the record.

A. My name is Frank Grill. What else do you want to know?

Q. That's it.

Could you please state your current residential address.

A. 4323 220th Street, Bayside, New York.

Q. Mr. Grill, by whom are you currently employed?

A. Parsons Brinckerhoff.

Q. I see on your card that you've just handed me, Parsons Brinckerhoff Construction Services, Inc. is it?

A. Right.

Q. Below that it says, "Terminal One Project."

A. Yes. That's Terminal One Project at the airport.

Q. At JFK Airport?

A. At JFK, yes.

Q. That's the project concerning I guess what used to be Building 55, is that correct, at JFK Airport?

A. It was the Eastern building. I'm not sure. I don't want to guess at the number.

Q. It was the Eastern building?

A. Right.

Q. Are your responsibilities solely in connection with that project --

A. Yes.

Q. -- or do you do other things for Parsons Brinckerhoff?

A. No. Just that project.

Q. What are your responsibilities regarding that project?

A. Reviewing the plans and specifications, general administration of the contracts and intervention with the Port

Authority insofar as submittals of drawings for approval, for review.

Q. Your card has you identified as

project manager.

That's project manager for that particular project?

A. Yes. There are several project managers and there's a project director.

Q. For how long have you been employed by them?

A. It will be one year at the end of July.

Q. Did you have a chance to meet with any attorneys for the Port Authority prior to the deposition --

A. No.

Q. -- today?

A. No.

Q. You didn't have a chance to meet with Ms. Gruenloh?

A. No.

Q. You didn't meet with any outside attorneys or any in-house attorneys for the Port Authority?

A. No.

Q. Have you spoken with anybody else at the Port Authority aside from attorneys, anybody else at the Port Authority regarding

this deposition?

A. No.

Q. Have you spoken with anybody at your current employer regarding this deposition?

A. I showed him this (indicating) and told him I would not be in this morning.

Q. When you say "this," you're referring to the subpoena?

A. Not the envelope, right.

Q. That's the subpoena for your deposition?

A. Right, it's the subpoena, yes. I circled the date and the place, so...

Q. Have you ever had your deposition taken in any matter prior to today?

A. For this?

Q. For any case whatsoever.

A. Yes.

Q. On how many occasions have you been deposed previously?

A. Once.

Q. Do you recall what the nature of the case was?

A. It was an accident on a job site.

Q. Which job site is that?

A. It was a Pan Am job site at Building 53.

Q. Building 53 at JFK Airport?

A. Yes.

Q. When you say "an accident," what was the nature of the injury?

A. Someone fell off a scaffolding.

Q. Have you ever given any trial testimony in any case?

A. No.

Q. Have you ever given any testimony in any other type of legal proceeding?

A. No.

Q. Let me describe a little bit for you what will take place today. I know you've been deposed once before; but as you probably understand, to your right is the court reporter. She's taking down everything said today, all questions asked and all answers given. From that she will produce a transcript, which will be a booklet of the

testimony, and you'll have an opportunity to review that. That testimony can be used at other proceedings in this case and at the trial

of this case.

Do you understand that?

A. Yes.

Q. One thing I'll ask you to do, because the court reporter takes everything down in written form, it's necessary to answer audibly with a yes or no or whatever your response may be.

Do you understand that?

A. Yes.

Q. I will try to ask my questions as clearly as possible. I sometimes fail in that; but if I do so, please tell me, and if you'd like me to rephrase a question, I'll be happy to do that.

A. I certainly will ask.

Q. Otherwise, if you answer the question, I'll assume you had an understanding as to what I asked.

Is that fair?

A. Yes.

Q. You received a subpoena in

connection with today's deposition; is that correct?

A. Yes.

Q. Let me show you what I'll ask the court reporter to mark as Exhibit 1. This is a seven-page document for the subpoena for the deposition of Mr. Frank Grill. You can take whatever time you'd like to review that.

EXH (Defendant's Grill 1, subpoena with attachment, was marked for identification.)

(Witness peruses document.)

Q. Have you had a chance to review Exhibit 1?

A. Yes, I did briefly.

Q. I notice you've pointed out there a couple of pages on Exhibit 1 that are not on the subpoena to you.

A. Right.

Q. I can represent to you that's what is referred to as an Affidavit of Service that identifies the person who served this on other people in the case, so that's not something you would receive.

I see you brought copies of the

subpoenas today. Do you mind if I have a look at those.

(Witness hands documents.)

A. One was mailed and the other was delivered.

Q. You received two copies, one by the mail and the other hand-delivered; is that correct?

A. Yes.

Q. I see you've highlighted certain items on your copies; is that correct?

A. Right.

Q. If it's okay with you, what I'd like to do is mark one of these as Exhibit 1-A. Would that be all right with you? And if you'd like to keep the original, I can have a copy made at the break.

A. I haven't any objections.

Q. I don't know if you'd like to keep these subpoenas for your own information in the future.

A. No. I just don't want any significance to be put on maybe me underlining things and stuff like that. Is that clearly understood? Because that's only the way I do

things.

Q. That's fine, and I'll ask you questions about whatever significance that may

or may not have, so that's fine.

A. Right.

Q. When we have a break, what I'll do is mark one of these as Exhibit 1-A, and I don't think we need to mark both of those since they both appear to have essentially the same underlinings.

When you received the subpoena, did you have an opportunity to review it, to read it?

A. Yes. I was interested in knowing what it was all about.

Q. I see you have some underlinings here.

A. Right.

Q. Those are beginning on the attachment to the subpoena, is that correct, on page 2?

A. Right.

Q. You underlined some things in red pencil; is that correct?

A. Right.

Q. All of those are under a section called "Documents to be produced." Do you see that?

A. Right.

Q. Did you have an opportunity to look for any documents that might come within the subject matter of the documents requested here?

A. I had an opportunity to, but I didn't because I haven't any.

Q. You don't have any documents that would be responsive to that?

A. No. Right.

Q. When you left the employ of Pan Am and when you left the employ of Tower Air, you didn't retain any documents concerning your responsibilities?

A. No.

Q. Looking at page 2 of your copy of the subpoena which we'll be marking as Exhibit 1-A, I notice you underlined various words, including the date 1968. Do you see that?

A. Right. Yeah, to highlight those areas, that was the important items, I guess the dates and the buildings.

Q. The buildings are Building 53, 67

and 213. Do you see those?

A. Right.

Q. Are you familiar with those

buildings at JFK?

A. They're all Pan Am buildings, yes.

Q. At some point in time you worked with Pan Am; is that correct?

A. From 1960 to 1993.

Q. On the last page, page 4, I see a couple of handwritten notes. It looks like somebody's name.

Could you read that?

A. This is the environmentalist (indicating). May have mentioned --

THE WITNESS: Did you call me?

MS. WATKINS: We did, yes. I don't think we mentioned any individuals.

THE WITNESS: Maybe not.

A. This was the environmentalist that was involved in the 213.

Q. In the Building 213 project?

A. Yes.

Q. That's abatement of asbestos-containing materials from Building 213?

A. Right.

Q. One thing, it might be helpful for the court reporter if you can wait for a

question to be finished before you start answering. It's easier to get everything on the record.

That reference you're making here is to Authentica Environmental; is that correct?

A. Yes.

Q. You've handwritten that on page 4; is that correct?

A. Right.

Q. Above that is an individual's name?

A. Right.

Q. It looks like Ann and the last name is spelled A-t-k-a-b-o-w-s-k-i; is that correct?

A. Right.

Q. Atkabowski?

A. Yes.

Q. What responsibilities did Ms. Atkabowski have?

A. I reported to her at Tower Air.

Q. It looks like next to her name

you've written the words "VP operations"?

A. Right.

Q. Is she located at JFK Airport?

A. I don't know where she's located now.

Q. At that time was she located at JFK Airport?

A. Yes.

Q. Was she the most senior Tower Air person located at JFK Airport?

A. No. The owner also was located there.

Q. Does Tower Air have other facilities other than at JFK Airport?

A. I'm not aware. I don't know.

Q. Is that something you would know about if they did have such facilities?

A. No. Because I was only involved in that particular project.

Q. You wouldn't have heard about any other Tower Air --

A. No.

Q. Do you know if they have other terminals in the United States?

A. I don't know.

Q. Never heard about any?

A. I know they fly to other locations,

but I don't know if they have terminals there.

They could just lease space, you know, counters or...

Q. They fly to other locations in the United States; is that correct?

A. Yes.

Q. Above those handwritten words, Item 10 on Exhibit 1-A asks for documents, and it says "...sufficient to identify Tower Air, Inc.'s officers, directors, principals, employees and agents."

Do you see that?

A. Yes.

Q. You have that underlined; is that correct?

A. Yes.

Q. Next to it you've an asterisk next to the "officers" I see; is that correct?

A. Yes.

Q. Why did you do that?

A. Just to highlight it.

Q. I don't see that there are any other asterisks on the document.

Is there some particular significance you gave to that item?

A. No.

Q. Maybe the easiest thing to do at this point is to try to proceed a little bit through your background so I can get an understanding of the sequence of events here.

It appears you've had various involvement with various different facilities and entities at JFK Airport, so it might be helpful to get a full understanding of that.

Could you tell me your employment background since high school -- I'm sorry. Why don't we start with your educational background since high school.

A. Pratt Institute, Brooklyn, New York.

Q. Did you receive a degree from Pratt?

A. Bachelor of Science in construction management.

Q. What year was that?

A. '60 -- I don't recall. It was in the early '60s, early, mid '60s. The mid '60s.

Q. Have you received any other degrees

since high school?

A. No.

Q. Have you taken any graduate

courses?

A. No.

Q. What was your first employment upon graduating from Pratt Institute?

A. I was with Pan Am at the time.

Q. You were already employed by Pan Am?

A. Yes.

Q. When did you begin your employment with Pan Am?

A. January 1, 1960.

Q. Was that the first employment you had?

A. No.

Q. Why don't I go back to my original question then.

What is the first employment you had since graduating from high school?

A. I believe, I believe it was U.S. Testing of Hoboken located in Hoboken, New Jersey.

Q. Do you know approximately what year

that was, or the year you graduated from high school would be a...

A. I don't want to guess at it. I

don't know. I can tell you I got out of the Service, I think it was in '53.

Q. Do you recall when you graduated from high school?

A. No. No, I don't remember the year.

Q. What is your birthday?

A. 12/16/32.

Q. You were in the Service in the early '50s?

A. '52 and '53. '52 -- I went in, I believe it was '52, and I got out two years after that.

Q. That would be approximately 1952 to 1954; is that correct?

A. Right.

Q. What did you do in the Service?

A. I drove a jeep, infantry.

Q. After you left the Service, you went to U.S. Testing?

A. Yes, I believe so.

Q. What was the business of U.S. Testing in Hoboken?

A. I was a concrete inspector.

Q. How long did you work at U.S.

Testing?

A. Two or three years.

Q. That would take us to approximately 1956 or 1957?

A. Right.

Q. In approximately 1956 or '57, what employment did you take?

A. I worked for a group of architects and engineers doing administrative work for the construction of one of the hangers.

Q. What was the name of the architectural firm?

A. Winston Churchill. If memory serves me, it was Winston something Churchill.

Q. They did work for Port Authority buildings?

A. No. This was design of the hanger for Pan Am.

Q. Which hanger was that?

A. Hanger 14.

Q. Do you recall the names of the architects who worked on that project?

A. The architects?

Q. Yes, the individuals.

A. No.

Q. You don't recall the names of any

individuals you worked with on that project?

A. No.

Q. To whom did you report?

A. I reported to a project manager, who I don't recall his name. It was for a period of about a year or two. And there were, I believe, four engineers on a part-time, full-time basis that represented the four disciplines: Mechanical, electrical, structural...

Q. What were your responsibilities when working for the company Winston Churchill?

A. File plans, took notes, did chores around the office insofar as researching information, plans and specifications, things of that nature.

Q. Were you out at the site?

A. Yes.

Q. Hanger 14 is a steel structure; is that correct?

A. Reinforced concrete.

Q. It's all reinforced concrete?

A. Yes.

Q. When was Hanger 14 actually constructed?

A. Must have been a year or two prior to '60. They opened in I think mid '60s. I'm not too sure of the month.

Q. Did you work on any other projects during the period of time you worked for the Winston Churchill firm?

A. No.

Q. For how long did you work for them, approximately two years you said?

A. Approximately. That's a guess.

Q. That would take us up to approximately somewhere between 1958 and 1960?

A. Right. Well, I started with Pan Am January '60.

Q. That was upon leaving the firm Winston Churchhill?

A. From there I went to work for a short period of time for Corbetta Construction. These were interim jobs.

Q. What were your responsibilities with Corbetta Construction?

A. Assistant superintendent.

Q. On what project did you work?

A. Building 213 -- I'm sorry. 214.

Building 214.

Q. Again, that's at JFK Airport?
A. Yes.
Q. Or I guess what was at that time called Idlewild Airport; is that correct?
A. Yes.
Q. Building 214, what use was that put to?
A. It was an old jet engine overhaul building.
Q. That was new construction at that time?
A. Yes.
Q. What type of structure was that building?
A. Steel frame.
Q. How many stories was the building?
A. Two stories but only, the second story was only for a small-portion administrative area.
Q. An office space?
A. Right, an office space.
Q. Do you recall that that steel

structure had spray-on fireproofing on it?

A. There were some portions, some additions I believe had spray-on, yes.

Q. When you say "some additions," for the original construction in approximately this time, in 1960, none of that had spray-on fireproofing on it?

A. Not to my knowledge.

Q. When were additions constructed that included the use of spray-on fireproofing?

A. I don't remember the dates, but I can tell you there were three, I believe there were three extensions to the building.

Q. Approximate dates. Was it within a couple of years of the original construction?

A. Yes.

Q. Did Corbetta Construction handle those additions?

A. In that there was more than one addition, I'm not a hundred percent sure they did all of the two or three additions. I believe they did, but I'm not certain.

Q. You know they did one?

A. Yes.

Q. At least one?

A. Right, yeah.

Q. Did you have an opportunity to be at the site when the additions were being

constructed?

A. Yes.

Q. So you were still at Corbetta Construction during that time?

A. Yes. I went from Corbetta Construction to Pan Am.

Q. That was in 1960?

A. 1960. So '59 I was with Corbetta Construction.

Q. The additions were already underway or being constructed at the time you were with Corbetta Construction; is that correct?

A. Repeat it.

Q. Were any of the additions already being constructed while you were still with Corbetta Construction?

A. Yes.

Q. Did you have an opportunity to observe the project during the time that spray-on fireproofing was being applied?

A. Yes.

Q. Do you know what type of

fireproofing was used?

A. No.

Q. When I say "type," is your response

meaning you don't know who the manufacturer of that material was?

A. Right, I do not know.

Q. Aside from the manufacturer, did you observe whether it was a cementitious type material? Does that word have any significance to you when it comes to spray-on fireproofing?

A. I've heard the term.

Q. Was the material used in this Building 214, was that a cementitious or a fibrous type of fireproofing?

A. I'm not certain. I don't know.

Q. Was it your understanding at that time that it was an asbestos-containing material?

A. I would say no.

Q. Do you recall one way or another?

A. No.

Q. Is it June in 1960 when you began with Pan Am?

A. January.

Q. What position did you take when you

started with Pan Am in January 1960?

A. Technical assistant.

Q. What were your responsibilities as

technical assistant for Pan Am?

A. Keeping track of construction costs for projects being run by others.

Q. When you say "run by others," who are the others to whom you refer?

A. There was a department of 16 people, all involved in facility matters. Some design, ticket offices around the world, clubs, reservations.

Q. These are other people, then, who are also employed by Pan Am?

A. Right, other Pan Amers.

Q. I see. So you kept track of construction costs for projects being run by other Pan Am employees?

A. Right.

Q. What department or division were you in?

A. It was then called properties and facilities.

Q. Where were you located?

A. Hanger 14.

Q. Was that Pan Am's primary office facility at JFK Airport?

A. Yes, at that time. Yes.

Q. Where was its principal offices nationwide at that time?

A. Chrysler Building.

Q. That's in New York City?

A. Yes.

Q. Were all of the projects on which you kept track of construction costs, were they projects at JFK Airport?

A. No.

Q. What projects, if any, at JFK Airport did you keep track of construction costs for?

A. Miscellaneous, small projects.

Q. What projects elsewhere did you keep track of construction costs for?

A. Really around the world.

Q. Were these terminal constructions?

A. No. They were basically reservation offices, commissaries, city ticket offices, airport ticket office, things of that nature.

Q. That was worldwide?

A. Yes.

Q. The facility that Pan Am had at Hanger 14, then, obviously from what you're

saying, had responsibility for more than just JFK buildings at that time?

A. Oh, yes. It was a system.

Q. When you say "a system," what do you mean by that?

A. Properties department, Properties and Facilities Department was responsible for the real estate and construction system-wide. At one time it was the Pacific and then the Atlantic and then they merged. That's when I joined them in '60. Then it was a department that concerned itself with those affairs worldwide.

Q. To whom did you report at that time?

A. Karl Brook.

Q. Karl Brook?

A. Mr. Karl Brook.

Q. Is that spelled with a C or a K?

A. A "K."

Q. Was Mr. Brook head of the Properties and Facilities Division?

A. He was second in command.

Q. For how long did you hold the position technical assistant within the

Properties and Facilities Division?

A. I don't know. Approximately a couple years. When I got my degree, I became a project manager or whatever.

Q. Did Pan Am pay for your schooling at Pratt Institute?

MS. GRUENLOH: Off the record.

(Discussion held off the record.)

Q. You ceased your position as technical assistant in approximately 1962?

A. '62, yes.

Q. In approximately that time, what position did you take? Were you still with Pan Am?

A. Yes. I was continually employed from '60 to '93.

Q. What position with Pan Am did you take in approximately 1962?

A. Project manager.

Q. Had Pan Am sent you to school at Pratt Institute in order to get the degree you received?

A. No.

Q. You did that on your own?

A. Yes.

Q. Once you received that degree, that made you eligible to be a project manager; is that correct?

A. Yes.

Q. When you say "project manager," was there a particular project you were working on in approximately 1962 that you were manager of?

A. I do not recall any particular projects. Most of the projects, though, were related to work in the New York area as opposed to ticket offices, et cetera, overseas.

Q. When you say "the New York area," is that broader than just JFK Airport?

A. It could have included LaGuardia. It could have included maybe one or two projects overseas that I prepared some drawings for, but I did not travel.

Q. As project manager, what were your responsibilities?

A. To see that drawings were prepared either in-house, with in-house staff or outside architects. Process those drawings through the

Port Authority for approval, to implement the program, estimate costs and obtain financial approval within the company for final

completion.

Q. In having drawings approved by the Port Authority, what was the procedural route you followed in order to get that done?

A. The procedure was to submit to the Port Authority plans; if required, specifications signed by the architect or engineer who was doing the designing of that particular project.

Q. This would be, Pan Am's architect or engineer would sign that document?

A. Outside engineers.

Q. Did Pan Am have any of its own in-house architectural staff?

A. Yes, but the people within the department didn't prepare drawings for work that required signing of professional engineers at the airport. Those projects went out. Unless it was to change a closet or something, you know, decorating, our people would get involved in that.

Q. Significant projects were handled

for Pan Am by outside architectural firms?

A. Yes.

Q. Do you recall to which department

at the Port Authority you submitted these types of plans?

(Pause)

Q. Maybe I can help you out. Was there a tenant liaison office?

A. Tenant liaison office, right. That the letters were addressed to, right.

Q. Was there an individual in those offices -- it wasn't the resident engineer then?

A. No. It was the manager, airport manager.

Q. It went through the airport manager?

A. Right, office.

Q. Was it a business administration division?

A. No. The business administration division concerned itself -- I'm not a hundred percent sure. Ninety percent sure that business administration concerned themselves with lease, documents of leasing.

Then the airport manager of facilities is the department that the tenant alteration applications are addressed to.

Q. Tenant alteration applications are not necessarily only for alterations; is that correct? It might even be for a new building you'll submit a TAA?

A. Yes, it's for alteration, new building, any construction.

Q. Do you recall a unit at the Port Authority referred to as the Tenant Construction Review Unit, TCRU?

A. Yes, but -- yes.

Q. Did they have anything to do with review of Pan Am specifications or Pan Am plans to your knowledge?

A. I would assume.

Q. Pan Am, however, if I understand from your response, then, did not have direct communications with that unit, but instead went through the tenant liaison unit?

A. Yes, yes.

Q. Before I get too sidetracked, let me continue going through your chronological employment history.

For approximately how long were you a project manager with Pan Am, which job you took in 1962?

A. Up until '75.

Q. What department or division at Pan Am were you in at the time you were project manager?

A. Properties and facilities.

Q. How many other project managers were there at that time?

A. I'm not certain. I would say, depending on what period, three to five or six, in that area. Because some were considered designers, others engineers. The titles vary.

Q. In approximately 1975, what position did you take with Pan Am?

A. I went into the Pan Am Building as director of facilities.

Q. Prior to 1975, were you located at JFK Airport the entire time?

A. Yes.

Q. Was it always at Building 14, or did you move during that period?

A. I believe it was always at Building 14, yes.

Q. And then in 1975, you moved to the Pan Am Building --

A. Yes.

Q. Otherwise, what you referred to earlier as the Chrysler Building in New York City; is that correct?

A. No. The Pan Am Building was the Pan Am Building.

Q. This is the Pan Am Building right next to Grand Central Station; is that correct?

A. Right.

Q. What were your responsibilities as director of facilities?

A. I was responsible for the services and subleasing program that took place in the Pan Am Building. Services meaning mail, archive, office, contract...

(Pause)

A. Executive clearances, translation.

Q. This all concerned services provided in the Pan Am Building itself?

A. Yes.

Q. Your responsibilities did not concern other buildings at that time?

A. It concerned other buildings

insofar as sublet space. We had other spaces in mid Manhattan that we sublet, you know, to others.

Q. Did you have any responsibilities during the time you were director of facilities for any building at JFK Airport?

A. During that period?

Q. Yes.

A. No.

Q. The second area, you said, of your responsibilities involved a subleasing program. That's subleasing of space within the Pan Am Building?

A. Inside the Pan Am Building, right. Just monitored.

Q. What do you mean, "just monitored"?

A. Well, collecting of rent, things of that nature. I didn't negotiate spaces or the cost of that.

Q. When was the Pan Am Building constructed?

A. I don't know.

Q. For how long were you director of facilities?

A. I left in -- ten years. '75 to

'85.

Q. What position did you take in 1985?

A. Took the position of director,

design and construction.

Q. As director of facilities were you still in the Properties and Facilities Division or Department?

A. Yes, but it changed from properties and facilities, and I'm not too sure what period that was or what date, to Corporate Real Estate.

Q. As director of design and construction, the position you took in 1985, what department or division at Pan Am were you in at that time?

A. That was Corporate Real Estate, I believe.

Q. What were your responsibilities as director of design and construction?

A. To, again, see that costs were established for projects that the corporation needed, projects --

Q. When you say costs for projects, you're talking about estimating costs for future projects?

A. Right, estimating costs for projects and just define those costs in part for facilities that the corporation thought

they needed.

Q. Was there any limitation with respect to region or location that your responsibilities covered, or was that nationwide or worldwide?

A. I primarily got involved in projects at the airport. However, I had a staff that did projects overseas. To some extent, I was responsible for their performance.

Q. When you say primarily your responsibilities concerned the airport, again you're referring to JFK Airport?

A. Yes.

Q. For how long a period of time were you director of design and construction?

A. Until I left in '93.

Q. At that time you retired from Pan Am?

A. They retired me.

Q. Just so the record is clear, at that time did Pan Am go into bankruptcy?

A. I believe so, yes.

Q. Do you receive any benefits from Pan Am in any way since their bankruptcy?

A. I'm receiving a pension.

THE WITNESS: Off the record.

MR. NICYPER: Yes.

MS. GRUENLOH: Off the record.

(Discussion held off the record.)

Q. Just off the record you were just explaining you believe that comes from the Pension Guarantee Corporation; is that correct?

A. Yeah.

Q. Did you have any involvement whatsoever in the Pan Am bankruptcy? By "involvement," I mean administratively or handling any affairs directly related to the bankruptcy.

A. For a period of time, I assisted in selling assets.

Q. Would those include assets at JFK Airport?

A. Yes.

Q. What position did you take in 1993?

A. After I left Pan Am?

Q. After you left Pan Am.

A. I went to work for Tower Air.

Q. Do you recall when in 1993 that was?

A. I believe it was March '93.

Q. I see you have a little note pad that has some of these dates on it.

Do you recall how you refreshed your recollection regarding those dates? Do you have a calendar, or do you have something that you used to remind yourself?

A. My wife assisted me this morning looking on our tax returns. But I remember it was in March of '93.

Q. What position did you take with Tower Air in March 1993?

A. I took a position to monitor their construction project at JFK.

Q. Did you have a title or were you given a title?

A. No.

Q. When you say "monitor their construction project at JFK," you're referring to what previously was a Pan Am, originally a terminal building, turned into an office and storage building and was now being converted

back to a terminal building for Tower Air; is that correct?

A. Right.

Q. That was Building 213?
A. Yes.
Q. Tower Air was undertaking renovation in Building 213 at that time?
A. Yes.
Q. Was that one of the assets that you were assisting in selling in connection with the Pan Am bankruptcy? Building 213 I'm referring to now.
A. Could you explain "sell." I got involved in selling the furniture that was within that building, but had nothing to do with the building itself or lease agreement or anything of that nature.
Q. Who handled that?
A. A --
Q. The lease agreement I'm referring to.
A. In that, most probably there were many, many attorneys involved in that. I can't give you any names, but a gentleman, Peter Dugre, who was the head of our Properties and

Facilities Department, I imagine would have gotten involved to some extent or could have gotten involved to some extent.

Q. Where did Mr. Dugre go after the Pan Am bankruptcy, do you know?

A. I don't know. He may still be there. I don't know.

Q. He may still be --

A. With Pan Am.

Q. -- resolving the liquidation of assets?

A. Right.

Q. For how long were you with Tower Air?

A. As an employee, nine months.

Q. You say "as an employee." Was there some other capacity in which you continued to work with Tower Air?

A. I worked on a consultant basis.

Q. For how long did you provide consulting services to Tower Air?

A. From 2/94 to 7/95.

Q. Again, were your responsibilities essentially the same as those which you had had to monitor the construction project at JFK 213?

A. Generally speaking, yes.

Q. In July 1975, what position did you take?

A. I joined Parsons Brinckerhoff.

Q. I'm sorry. Let me correct the transcript on that. July 1995. In July 1995 --

A. Yes.

Q. -- that's when you started with Parsons Brinckerhoff?

A. Yeah, July 31, yes.

Q. How did you come to hold that position? Did you go and talk to the TOGA One people, or did they come to you?

A. It was both. I was networking, and I had called the gentleman I report to now. And some time went by, and I guess he had a conversation with someone and says, well, what about Frank Grill, and he called me.

Q. Who is it that you report to now?

A. A Mr. Bill Snowden.

Q. Is Mr. Snowden at TOGA, or is he at Parsons Brinkerhoff?

A. Parsons Brinkerhoff.

Q. Does Parsons Brinkerhoff handle

responsibilities other than the TOGA project,
or is that their exclusive responsibility at
this time?

A. I believe Terminal One is TOGA's only responsibility, yes.

Q. Aside from TOGA, though, does Parsons Brinkerhoff provide service for any building other than Terminal One?

A. Oh, they're a large engineering firm, yes, which I've just learned about.

Q. Mr. Snowden works for Parsons Brinkerhoff currently; is that correct?

A. Yes.

Q. Is there a separate group that focuses on the Terminal One Project? Separate group within Parsons Brinkerhoff I'm talking about.

A. Repeat the question. I don't think so, no. We're the only group of people from Parsons Brinkerhoff that concerns ourselves in this capacity. There's the engineers. There's the construction manager. There's financial people and et cetera.

Q. My question was not clear, and I appreciate your question regarding it.

Within Parsons Brinkerhoff, there is a certain group of people who are dedicated to this project solely; is that correct?

A. Yes.

Q. Does that group have a title within Parsons Brinkerhoff?

A. Not to my knowledge.

Q. Mr. Snowden, did he previously work for Pan Am?

A. No.

Q. Did he previously work for anybody at the airport prior to taking on this project?

A. I believe he worked for Delta Airlines. I believe -- I know he worked for Delta Airlines.

Q. The Terminal One Group Association, as it's called, which is where the acronym "TOGA" comes from; is that correct?

A. Yes.

Q. That's a group of airlines; is that correct?

A. Yes.

Q. Is it a joint venture to your knowledge?

A. I don't know the legal definition

of joint venture, so let me not get involved in things I don't know about. There are four airlines.

Q. Which are the four?

A. Japan Airlines, Korea, Air France, and Lufthansa.

Q. What is the current status of that project, the Terminal One Project?

A. Piles and pile caps are 90 percent complete.

Q. The old Building 55 has been demolished?

A. Yes.

Q. Is there any part of that structure that still stands?

A. Not to my knowledge.

Q. So they've put in the piles for the support structure for the new building?

A. Yes.

Q. Who are the individuals at TOGA itself who handle its responsibilities? Who's the head of TOGA? Is there an individual who's the president of the Terminal One Group Association?

A. Gentleman's name is, I believe,

Deider Berk (phonetic). I don't know how to spell it.

Q. Deider?

A. Berk.

Q. Berk?

A. Yes. And he's with Lufthansa.

Q. He's with Lufthansa but heads the association?

A. Yes, right.

Q. Who else, to your knowledge, works within the association, the TOGA association?

A. Alain Content with Air France.

Q. Could you spell that for the record?

A. A-l-a-i-n C-o-n-t-e-n-t.

Q. Is there anybody else you're familiar with that works within the association referred to as TOGA?

A. There are two other gentlemen. One is representing Korea Airlines, and the other is Japan Airlines. Unfortunately, I don't know their names or their names slip me.

Q. Who within TOGA, if you know, handled responsibility for the lease negotiations with the Port Authority?

A. I don't know.

Q. Does TOGA maintain its own offices?

A. There's an office, Hanger 14 -- or

Building 14.

Q. At Building 14?

A. Yes.

Q. Building 14 at JFK is the Port Authority administration building; is that correct?

A. Yes.

Q. Do you know approximately how large TOGA's offices are within that building?

A. Fifteen hundred square feet. I'm guessing.

Q. Approximately how many individuals work in that office to the best of your knowledge from having been there?

A. Seven, eight people.

Q. Does that include clerical staff?

A. Yes.

Q. That includes professionals as well as clerical staff?

A. Right.

(Pause)

A. Maybe that's 11 people.

Q. Including clerical staff?

A. Yes.

Q. Your best estimate, how many of

those are clerical people and how many of them are professionals?

A. Two to three clerical. You say "professional," are you talking -- you know, when you say "professional," I think of professional architect or this, that and the other thing, and I don't know how many --

Q. I see. There were two or three clerical, and the others are not clerical?

A. Right. Okay. Right. Administrative.

Q. Does Mr. Berk work in that office?

A. He visits. He hasn't got a full-time office there.

Q. The same with Alain Content?

A. No. Alain Content has an office and he's there every day.

Q. What are his responsibilities to your knowledge?

A. Alain Content is chief property officer.

Q. Do you know whether those

responsibilities include lease negotiations?

A. I don't know.

Q. Are you familiar with an individual

named Paul Demkovitch?

A. Yes.

Q. Does he work at the TOGA office also?

A. They have separate offices. They do not work in the same office that we're in.

Q. When you say "we're in," is your office at Building 14 now?

A. Yes. It's in an adjacent office or it's another office that's separated, okay, by other tenants.

Q. Those are offices of Parsons Brinkerhoff?

A. Right.

Q. Those are separate offices you've described regarding TOGA; is that correct?

A. The TOGA and the Parsons Brinkerhoff office, one office. Demkovitch is in this office (indicating), which is separated by 40, 50 feet. It's a separate office.

Q. He's 40, 50 feet down the hall?

A. Yes.

Q. The 11 people you discussed working for TOGA in Building 14, do those include Parsons Brinkerhoff people?

A. Yes.
Q. Did you mean to include in that Mr. Demkovitch as well?
A. No.
Q. They have another office in Building 14?
A. Yes.
Q. Approximately how many people work in that office?
A. Two or three. I do not believe they're there on a regular nine to five basis. I'm not certain though.
Q. If we wanted to speak to somebody at TOGA regarding lease negotiations, who would be the best person to talk to?
A. Deider Berk; Mr. Content; or AAP, Airport and Airline Professionals.
Q. Who is AAP?
A. That's Mr. -- you just said his name. Paul.
Q. Mr. Demkovitch?
A. Yes.

Q. He works for a consulting firm?

A. Yes.

Q. That's a consulting firm that TOGA

has retained in connection with this project?

A. Yes.

MR. NICYPER: This might be a good time to take a break.

(Recess taken.)

EXH (Defendant's Grill 1-A, subpoena with highlighting, was marked for identification.)

Q. The card you handed me a minute ago states on it "Parsons Brinkerhoff Construction Services, Inc., Terminal One Project, JFK Airport Building 14, Suite 11, Jamaica, New York 11430, and there is a number here, 718-632-2790.

Is that your direct number there?

A. 2790 is the number, right. No, it's not a direct number. It's an office number.

Q. It's an office number for Parsons Brinkerhoff?

A. For TOGA.

Q. Where is Parsons Brinkerhoff's main

offices, if there are?

A. It's on 31st Street and -- 31st or 32nd Street by Penn Station.

Q. In Manhattan?

A. In that area. I don't know. It may be One Penn Plaza, but I don't want to guess.

Q. If I could, I'd like to focus for a bit of time on your responsibilities beginning in 1962 to 1975 as project manager in the Properties and Facilities Department.

What projects did you work on in that period of time? Let me ask it more broadly. What -- no. Let's keep it at that. What projects did you work on during that period, 1962 to 1975, as project manager?

A. '62 to '75, right?

Q. Yes, during the period of time you were project manager.

(Pause)

A. Off the record.

Q. We can keep it on the record.

A. You have to give me a moment.

Q. That's fine. Take as much time as you need.

(Pause)

A. I worked on projects establishing shops in Hanger 14; Hanger 17; Hanger 16;

extensions of Building 214; construction of a small cargo facility, prefab.

Q. Did that have a building number?

A. No, I don't remember. I believe it was A1, but this goes back.

Renovation to a commissary.

Q. Where was the commissary located?

A. Building 14.

In addition to monitoring, continue to monitor the costs for these other projects there.

Q. Did you have any responsibility in any construction during that period of time concerning Building 213 at JFK?

A. No.

Q. Were you located at Building 213? No, you were located in Building 14?

A. Building 14, Hanger 14.

Q. At any time were you located at the offices at Building 213?

A. We had temporary offices there, and it may have been for nine months. What period,

I don't know.

Q. Did you have any responsibilities in any way with any construction work done at

Building 53 during this period of time, 1962 to 1975?

A. Not that I'm aware of.

Q. You were not involved in the large expansion project for the Pan Am Worldport?

A. The Pan Am Worldport, no, I was not.

Q. Who handled that?

A. There was an engineer by the name of James Queen who handled that. In part who handled that project. There were many others.

Q. Did you have any involvement in any construction or renovation projects during this period, 1962 to 1975, at Cargo Building 67.

A. I don't believe so, no.

Q. Did you do any cost estimating for the projects at Building 213, Building 67 and Building 53?

A. During that period?

Q. During that period.

A. I do not believe so.

Q. Who would handle the cost

estimating for that?

A. Other project engineers we had.

Q. Your cost estimating

responsibilities did not necessarily concern monitoring all construction projects for Pan Am; you just had a certain portion designated to you?

A. There were certain projects that I personally handled, projects that others handled, and it was just a review, a monthly review as to how the projects were going. That was strictly an administrative...

Q. I'd like to switch periods, if I could. During the period 1985 to 1993, during which time you were director of design and construction within the Corporate Real Estate Department, during that period of time, did you have any responsibilities that concerned Building 213?

A. No.

Q. When you took over with Tower Air in March 1993, you had not had any previous experience with Building 213?

A. Not that I recall, no.

Q. Do you recall why it was that Tower

Air asked you to get involved in that project at that building at that time?

A. They didn't ask me. I was looking

for employment.

Q. Were you familiar with that building?

A. I was familiar with the building in that it was there and that Pan Am had occupied it, in that Pan Am had built it for a terminal building for the San Juan arrival flights. I was aware that they converted it to an office building for the purchasing department, which I had not gotten, obviously not gotten involved in that alteration or whatever. So I was aware to that extent.

Q. You had not been familiar with building plans prior to 1993?

A. No, I didn't get involved in the planning of that or the construction of that or even the conversion of that.

Q. During the period 1985 to 1993, when you were director of design and construction in the Corporate Real Estate Department, did you have any responsibilities at all with respect to Building 67, the cargo

building?

A. Minimal. We weren't doing any work at that, at that period of time. Minimum.

Q. You don't recall doing work during that period of time?

A. Right, no, I don't recall.

(Pause)

A. The only project I got involved in, I believe I solicited proposals, and I'm not certain of this because I don't think anything ever happened with it, but I think I had gotten involved in getting proposals for some abatement. That's Cargo 67.

Q. Yes, Cargo Building 67.

A. Right.

Q. You were involved to some extent in getting proposals for asbestos abatements?

A. Right.

Q. Do you recall how many asbestos abatements there were?

A. It was only one area.

Q. What area of the building was that?

A. It was the receiving dock or a portion of the receiving dock.

Q. Do you recall what type of material

was being abated? Was it pipe insulation or tile?

A. No. It was on steel, fireproofing

of steel.

Q. Fireproofing on steel?

A. Yeah.

Q. Do you recall how many abatements there were that you were involved in?

A. It was just one area that was in question.

Q. Single abatement project?

A. What?

Q. A single abatement project?

A. Yes.

Q. During this same period of time, 1985 to 1993, did you have any responsibilities whatsoever with respect to Building 53?

A. Yes.

Q. What were your responsibilities regarding Building 53 during this time period?

(Pause)

A. Upgrading of the gate lounges; creating a business class lounge, VIP lounge; office alterations; expansion of the customs and immigration processing areas, and baggage

claim.

Q. Is this renovating the baggage claim area?

A. Expanding.

Q. Anything else you can think of, or is that the only activities you recall during that time period with regard to Building 53?

A. That was basically it.

Q. Shifting back in time again, going back to the period 1962 to 1975, do you recall that the Worldport Building underwent a significant expansion project during that period of the late '60s, early 1970s? Again, Building 53 I'm referring to.

A. What dates are we talking about? From '60 to?

Q. Right now we're just looking at your job when you held the position from 1962 to 1975 as project manager for certain projects, and I know you said you didn't work on this project, but I'd like to focus a little bit, if I could, on the Worldport expansion project.

Do you recall that there was a significant project conducted during the late

'60s and early 1970s in Building 53?

A. Right.

Q. I believe you identified one

individual who was responsible for that, a James Queen?

A. Queen, right.

Q. What was his title?

A. I believe it was project manager.

Q. Did he work in the same office you did?

A. We worked in the same office, yes. However, there was a period of time that he maintained an office at the site.

Q. At the Worldport site, Building 53 site?

A. Yes.

Q. He was also in the Properties and Facilities Division?

A. Yes.

Q. Do you know if he was at Pan Am when you left in 1993?

A. Oh, no. I'm sorry. No, no.

Q. Do you know when he left the employment of Pan Am?

A. No, I don't. But it was early on

in the period of Pan Am reducing forces. I don't remember.

Q. Do you know where he went when he

left Pan Am?

A. He went to Intercontinental Hotels.

Q. Do you know whether he's still with them today?

A. No. He's passed away.

Q. Who worked with Mr. Queen on that project within Pan Am?

A. Mr. Brook.

Q. That's Karl Brook?

A. Yes.

Q. I'm sorry. His responsibilities again?

A. He had overall responsibility underneath the vice president of Properties and Facilities, and I don't know when that took place because, as you know, there was a transition where the title "manager" was a large title and then became assistant vice president and vice president, so these titles changed. But the basic responsibility of the individual, you know, remained the same.

Q. Did Mr. Queen report to Mr. Brook?

A. Yes.

Q. Was Mr. Brook located at

Building 14?

A. Yes.

Q. Was Mr. Brook still with Pan Am when you left in 1993?

A. Oh, no, no.

Q. Do you recall when Mr. Brook left Pan Am?

A. No, I do not.

Q. Do you have any idea where he resides today or were he's employed today?

A. No.

Q. Do you recall any individuals who reported to Mr. Queen on this project?

A. No.

Q. What was Pan Am's structure in terms of project manager and overseeing a project such as this? What types of people did Pan Am employ on these projects, and what types of responsibilities did they have?

A. The type of people. Some had airline experience in reservations, in marketing, in operations.

Q. In a project such as this, what is

the value of having somebody in reservations get involved with an expansion construction project such as Building 53?

A. Oh, the planning or the input and the requirements. There's not only one person. There's a group of people that give input to the project.

Q. So this is at the planning stage?

A. Right.

Q. In connection with the actual construction itself, did Pan Am hire a contractor to handle this project? Building 53 I'm talking about.

A. Yes.

Q. Do you recall who the contractor was?

A. No.

Q. Do you recall, did it retain an outside architectural firm to undertake this project?

A. I believe it was TAMS, Tibbits Abbot McCarthy & Strutten, I believe.

Q. Do you recall that, in fact, the Corbetta firm was the contracting firm on this project, was the general contractor?

A. No, I don't recall that. I can tell you Corbetta was, I believe was the contractor for Hanger 14.

Q. Did you know a contracting firm referred to as Humphreys & Harding?

A. Yes. Yes, I know, yes.

Q. Do you know whether they worked on this project, the Building 53 expansion?

A. Not to my knowledge.

Q. Prior to the expansion, what was the existing facility at Building 53?

A. It was the umbrella building, as they called it.

Q. If you go to JFK, it's a large disk-shaped --

A. Right.

Q. -- over-top, and the building was underneath it?

A. Cantilever roof, right.

Q. When was that original building constructed to your knowledge?

A. It was somewhere in the early '60s.

Q. In 19 --

A. Mid. Early, mid '60s.

Q. In the late '60s, the project we're

talking about, what was actually added to that building, to that original construction project?

A. I'm guessing, there's approximately seven gates. Seven gates were added.

Q. Two large wings were added; is that correct?

A. It really wasn't a wing. It was an extension of the umbrella building but not -- it was a wing in one general sense, but it was a rectangular, pie-shaped combination of both sides of the building.

Q. Almost a triangular building coming off of the --

A. Yes, right.

Q. They added at that point gates you say?

A. There were six or seven gates. There was a, there was jetways; immigration and customs arrivals area; conveyor systems; two first class lounges, one at concourse level, the other at the third level; administrative offices. Basically that's it.

Q. When was the project complete to your knowledge?

A. I don't know, I don't remember when it was complete.

Q. Do you recall that there was a

general contractor that was retained by Pan Am to undertake this project?

A. Name doesn't come to me. I just don't remember.

Q. Aside from the name but, in fact, they did hire an outside contracting firm?

A. Right.

Q. They didn't act as their own general contractor, Pan Am did not?

A. Right. It may have been, and I'm not sure of this, Turner Construction.

Q. Do you recall any individuals at whatever contracting firm, any individuals who worked at that project for the contractor, the general contractor?

A. No, I do not.

Q. Did you ever have occasion to go out to that project during its construction?

A. I most probably did, yes.

Q. Do you recall that it was a steel structure?

A. I believe. I didn't go out there

as a routine. It was, you know, once a year or whatever, a sight-seeing.

Q. Did you see the steel structure

project when you went out?

A. I can't say that I recall, no.

Q. In that system of construction where Pan Am hires a general contractor, what responsibilities does Pan Am take on itself to oversee the construction project itself? Does it monitor the contractor?

A. I cannot speak for this specific project.

Generally the airlines have a representative on the airline's payroll to watch projects. And they have the engineers that have to sign off on these projects, responsibility to see that compliance, complies to codes, rules and regulations and the New York City building code, et cetera.

Q. Are these Pan Am engineers you're talking about --

A. No.

Q. -- or are these outside firms?

A. Outside firms that are hired to design, right.

Q. How does Pan Am itself, though, oversee all of its consultants that it retains in these projects?

A. The project manager, Mr. Queen.
Q. Were there others within Pan Am who work for him who monitor the construction or the engineering?
A. In that case, in Mr. Queen's case, I believe there were others in the department that assisted him, yes.
Q. Do you recall any of their names?
A. No.
Q. You can't recall any as you sit here today?
A. Charles Boll.
Q. Charles Boll?
A. Right. B-o-l-l. I don't recall the names of the other people.
THE WITNESS: Excuse me.
(Recess taken.)
Q. You recall the name Charles Boll as being an individual who had some responsibility in connection with the Building 53 expansion in the '69 to '72 period.
A. Right.

Q. What were Mr. Boll's responsibilities?

A. Mr. Boll is a mechanical engineer.

I think he concerned himself with mechanical aspects of the building conveyor systems.

Q. Did Pan Am have any structural engineers that worked on that project?

A. In-house?

Q. Yes, in-house.

A. In-house, I believe Jim Queen. I'm not sure if it was structural, civil engineering, his background. I don't know if he was licensed in New York.

Q. Did Pan Am have any other structural engineers other than Mr. Queen generally when they worked on this project or not?

A. Not to my knowledge, no.

Q. Did Pan Am have any in-house civil engineers other than Mr. Queen that worked on any project?

A. If we're using the term "engineer" as being a licensed New York engineer, no.

Q. How about nonlicensed?

A. But engineering background, yes.

Q. Do you recall any of their names?

A. A Bill Grace, or William Grace.

Q. Was he employed during that period

of time, 1960s, 1970s?

A. From '60 on. I don't know when he left.

Q. Do you know whether he had any responsibilities one way or another regarding Building 53?

A. He could have had responsibility insofar as aircraft movement and pavement. That was his specialty.

Q. Did Pan Am have any in-house architectural engineers, architectural designers or architectural engineers?

A. No. I say no, to the best of my knowledge.

Q. You don't recall any?

A. No.

Q. That's on any project during this period of time; is that correct?

A. Right.

Q. Do you have any knowledge with respect to who at the Port Authority had communications with Pan Am regarding the

Building 53 expansion project in the late '60s, early '70s?

A. No.

Q. Who was the general manager at JFK, airport manager for the Port Authority at that time?

A. I don't recall. A Mr. Ike Dornfeld, and I don't remember what -- I believe at one portion of time, he was general manager, I believe. But I don't know what period it was.

Q. Do you recall a Morris Sloan?

A. Yes.

Q. He was general manager at some point in time?

A. Yeah.

Q. Mr. Dornfeld at some point in time was also head of the Plant and Structures Division at the Port Authority --

A. Yeah, I remember his name.

Q. -- in connection with the JFK activities?

A. Right, JFK activities.

Q. Do you recall an individual by the name of William Spain?

A. The name is familiar, but I don't recall. I can't picture him in any, you know...

Q. Did you have communications with Mr. Dornfeld with respect to any projects you worked on?

A. Yes, but not as -- not when he was airport manager. Most probably not when he was airport manager.

Q. Did you have communications with him when he was the manager of the Plant and Structures Division?

A. Most probably.

Q. What exactly were his responsibilities, to your knowledge, in that position?

A. As plant and structures manager?

Q. Yes.

A. It was either administratively in processing tenant alteration applications and or -- let's see.

(Pause)

A. It was tenant review or resident engineer's office, and I'm not too certain which one.

Q. That Mr. Dornfeld worked in?

A. Right.

Q. Do you recall any other individuals

at the Port Authority, either in the Tenant Construction Review Unit or the resident engineer's office or the tenant liaison office who worked on processing tenant alteration applications?

A. Not at the moment.

Q. You don't recall any other individuals you had contact with regarding TAAs?

A. No, not right now. Their names -- you're talking about what, a 30-year period of time -- maybe not. Fifteen-year period of time where there could have been 100 people in the Port Authority, you know, all going this way (indicating) at one time or the other. But the names don't come to me.

Q. Okay. I'm just asking if you can recall any.

A. All right.

Q. Do you recall which architectural firm handled the construction of -- the expansion project of Building 53?

A. I think we said that was TAMS.

Q. I'm sorry. Yes, you already did.

I apologize. I had already asked that

question, yes.

Do you know which individuals at TAMS were involved in architectural work regarding that building?

A. No, do not recall.

Q. Do you recall whether you had any direct contact with anybody from TAMS regarding that project?

A. It was unlikely because I was not assigned to that project.

Q. Who handled the cost monitoring for that project, who within Pan Am handled cost monitoring?

A. It would have been Mr. Queen most probably and also naturally the vice president of the department.

Q. Do you recall in Building 67, that Pan Am undertook an expansion project in or about 1969, 1970 or 1971?

(Pause)

A. I'm sorry. Was that a question?

Q. Yes. Do you recall an expansion

project at Building 67, the Pan Am cargo building, in the period 1969 to 1971?

A. We're talking about expansions now,

not the original building?

Q. Yes, expansion.

A. There was a Charles Erney, who was a mechanical engineer. E-r-n-e-y I think. There was a Walter Lee, who's passed on, L-e-e. Those are the two gentlemen that were involved.

Q. In that project?

A. Right. And I believe there's one or two extensions, I believe. Most probably those are the two people.

Q. Charles Erney, was he a project manager on that project?

A. Yes.

Q. Walter Lee, what were his --

A. Construction manager.

Q. What were Walter Lee's responsibilities?

A. He managed the processing of applications to the Port as well as managing the construction, physically managing the construction.

Q. You say Mr. Lee is now deceased?

A. Yeah.

Q. Do you know where Mr. Erney is today or where he currently resides?

A. I believe it's in Queens, but I don't...

Q. How do you spell his name, E-r-n-e-y?

A. I think it's that or E-r-n-y. I'm not sure.

Q. You don't recall any other individuals at Pan Am who worked on that expansion project at Building 67?

A. There most probably were others, but these are the two main characters, if you will, that worked on that.

Q. Do you recall the names of anybody else who worked on that project? Again, I'm referring to Pan Am employees at this time.

(Pause)

A. Bob McDermitt may have gotten involved in that and a Tony Lombardo. Mr. Brook would have been another person, being second in command of the department.

Q. Any others you can think of?

A. No.

Q. What were Mr. McDermitt's responsibilities?

A. To follow the construction details

in the field. Both of those gentlemen.

Q. Both of them had that same responsibility?

A. Yeah. Working, they would have reported to Mr. Lee.

Q. Do you happen to know where either of them resides today?

A. I believe Tony Lombardo is in Florida someplace. God knows where. And Bob McDermitt may still live out on Long Island.

Q. Have you had any contact with them over the last few years?

A. No.

Q. Do you recall that that project involved fireproofing of steel structure, structural members?

A. I do not recall when it was going up that it did involve that. No, I would not.

Q. Did you at some point in time come to learn there was fireproofing of this steel structure in that building?

A. In the later years, yes, some years

ago.

Q. Is the same true with respect to the Pan Am building, did you at some point in

time learn that was a steel structure that had spray-on fireproofing on it?

A. Repeat that question.

Q. With respect to Building 53, did you at some point in time learn that that, too, was a steel structure that had spray-on fireproofing on the structure?

A. Yes.

Q. Based on your familiarity with projects at JFK, would the individuals involved in Building 67, the project we just talked about, would the individuals at the Port Authority who handled that project be different from the individuals that handled the building project for JFK Building 53?

A. Would that be different?

Q. Yes, different. Or was everything processed through the same --

A. It's hard to say. They could conceivably have one engineer or two engineers covering both projects. I can't say that.

Q. As far as the processing of

applications, did Pan Am submit all of its TAAs through the same individual at the Port Authority?

A. No. It would be the same office.
Q. Again, you think that was the tenant liaison office?
A. (No verbal response.)
Q. Who was the tenant liaison person at that time? Who was head of the tenant liaison unit?
A. Excuse me. What years are we talking about?
Q. This would be the late '60s, early '70s.
A. No, I don't recall. I think we said Ike Dornfeld could have been in one of those positions. Right? Yes. In that period of time.
Q. In terms of the Plant and Structure Division, yes.
A. Right, plant and structures, right.
Q. Let me now, if I could, focus a little bit on Building 213.
Let me go back in time. Do you recall when Building 213 was originally

constructed to be used as a terminal, you said,
for receiving flights from San Juan.
A. I'm guessing at it. I think in the

late '60s.

Q. Do you recall when, approximately when it was converted from a terminal to an office and storage facility?

A. No.

Q. Do you recall even within a decade, was it in the '70s or in the '80s?

A. I'd say somewhere around '75. That's back to an office building.

Q. Back to an office building, yes.

A. Right.

Q. Sometime around 1975?

A. Right.

Q. Regarding the original construction of the building, do you recall a contractor being John Lowery?

A. The name rings a bell, only that he's a contractor in New York. I couldn't tell you that he was the contractor.

Q. Do you recall which architectural firm handled that project?

A. I believe, if memory serves me,

John O'Brien. You must probably have that.

Q. Do you recall which architectural firm handled the JFK Cargo Building 57

expansion that we referred to?

MS. WATKINS: Fifty-three?

MR. NICYPER: No. Sixty-seven.

MS. GRUENLOH: I you said "57."

MR. NICYPER: No. Sixty-seven.

Q. Sixty-seven, in the late '60s, early '70s.

A. No. Not, not at the moment.

Q. If it comes to you, that's fine. You can tell me at a later time.

Did you have occasion to go out and observe the construction of Terminal 213 during the time it was originally constructed?

A. Only in passing by.

Q. Were you aware that it was a steel structure?

A. I can't say I was aware of it at the time. I was busy on other things.

Q. When did you become aware that it had spray-on fireproofing?

A. I guess when I joined Tower.

Q. You don't believe you knew that

prior to that?

A. No, no.

Q. Who at Pan Am had responsibility

with respect to the original construction of JFK Building 213?

A. I shouldn't say I'm quite sure, but memory serves me, Karl Brook was the main individual monitoring that design and construction of that project.

Q. Do you recall anybody else from Pan Am who worked on that project?

A. I can't say as I do.

Q. With respect to Port Authority individuals who dealt with tenants on construction projects or tenant alteration applications, I'm going to go through a couple of people and see if you are familiar with their names.

Do you recall an individual by the name of H.K. Roberts, or Howel Roberts?

A. No.

Q. Do you remember an individual by the name of David Hennessy?

A. Yes. Yes.

Q. What do you recall about Mr.

Hennessy's responsibilities?

A. I believe he was an inspector, Port Authority inspector. I'm not sure. Or in the

resident engineer's office. I'm not sure in what office he was in.

Q. Do you know whether he received tenant alteration applications for processing?

A. I don't know. I can't say that.

Q. Do you remember an individual by the name of Joseph Nanko, N-a-n-k-o?

A. Vaguely. Vaguely.

Q. Do you have any recollection as to what his responsibilities were?

A. He may have been involved in the Worldport, but I'm guessing at that.

Q. Do you recall an individual by the name of Thomas Finn, F-i-n-n?

A. With Pan Am?

Q. No. With the Port Authority. Or maybe he was with Pan Am.

A. I remember the name, but I -- if he was with Pan Am, I believe it was in the real estate section, if I have the right person.

Q. Do you remember an individual at the Port Authority named Brendan Carmody?

A. Yes.

Q. What were Mr. Carmody's responsibilities?

A. I believe he was also in real estate or in administration. The name slips me, the title of that department skips me.

Q. The Plant and Structures Division?

A. No.

Q. Or the Business Administration Division?

A. Business administration, right. I don't think he was in plant and structures, or didn't come out of there.

Q. Did you have any direct communications with Mr. Carmody regarding any facilities and projects?

A. No.

Q. Do you recall an individual in the resident, the Port Authority's resident engineer's office, an individual named Robert Tollner, T-o-l-l-n-e-r?

A. Yes.

Q. What were Mr. Tollner's responsibilities?

A. I believe he was resident engineer

for a period of time.

Q. Do you know what responsibilities

he had with respect to the construction

projects we've referred to at JFK Buildings 53, 67 and 213?

A. No, I cannot say with any assurance as to what part he played in those buildings. He was an inspector or an engineer, field engineer. And I believe he then became resident engineer, but I don't know specifically. He got involved in many projects.

Q. Prior to being a resident engineer, did he actually go out into the field and observe projects?

A. I believe so, yes. That would have been a normal course of events.

Q. Do you recall an individual in the resident engineer's office named E.P. Rigaut, R-i-g-a-u-t?

A. No.

Q. Do you recall a Joe Lavel?

A. Now that you mention it, yes, the name is familiar; but I don't know what part he played in all this.

Q. Do you recall an individual by the name of Benjamin P. Sherbel, S-h-e-r-b-e-l?

A. Yes, but I don't know if he was

administrative, or I think he was an engineer.

Q. You don't recall anything more specific about his responsibilities?

A. No.

Q. Do you recall an individual named Edwin G. Ello, E-l-l-o?

A. No.

Q. Do you recall an individual by the name of E.P. Pitman?

A. No.

Q. Do you recall an individual by the name of Eugene Fasullo, F-a-s-u-l-l-o?

A. No.

Q. Do you recall an individual named Richard Klenk, K-l-e-n-k?

A. The name is familiar, but could be a ghost.

Q. In the Port Authority's Tenant Construction Review Unit, do you ever recall communicating with Robert Hand?

A. No.

Q. Do you recall an individual named

Daniel Hahn, H-a-h-n?

A. No.

Q. Do you recall an individual named

Michael DiNunzio, D-i capital N-u-n-z-i-o?

A. No.

Did these people work at the airport?

Q. These people worked in connection with the buildings we're talking about, yes.

Did you ever have communications with anybody from the Port Authority's Inspection and Safety Department in connection with inspections of tenant structures?

A. I don't recall anybody's names, and if we're talking about the same thing, Port Authority had engineers at -- well, from the New Jersey office and/or the Twin Towers that would come out for structural reviews of buildings each year or each couple of years as a routine. And I did work with a few of those fellows insofar as accompanying them around the building, insofar as receiving their report and making miscellaneous repairs and things of that nature.

Q. These were structural integrity

inspections?

A. Right.

Q. The period of time you're talking

about now would be more the 1985 to 1993 period --

A. No.

Q. -- or do you recall that earlier on?

A. Between '75 and before that, '75 on.

Q. Did the Port Authority also have individuals who came out and inspected construction projects during construction?

A. Oh, they didn't come out. They were at the airport.

Q. They were resident engineers?

A. Right. That was the function of the resident engineer's office and others that they may have called in, specialty fellows for evaluation of elevators. A lot of specialty people in the Port Authority, fire alarm. Then, you know, final inspections, they have staff come in from other offices that specialize in these things.

Q. Generally the purpose of the Port

Authority engineers out there during inspections is to assure compliance with regulations and specifications?

A. Exactly.

Q. Do you recall who during the period of time in the late '60s and early '70s, who from the Port Authority conducted those types of inspections during ongoing construction activities?

A. I don't remember the names offhand, no.

Q. Do you recall an individual named Joseph Rand?

A. No.

Q. Individual named Howard Silfan (phonetic)?

A. No.

THE WITNESS: Excuse me.

(Luncheon recess: 12:45 p.m.)

23

24

25

AFTERNOON SESSION

1:30 p.m.

F R A N K G R I L L, having been previously sworn, resumed the stand and testified further as follows:

EXAMINATION (cont'd.)

BY MR. NICYPER:

Q. Mr. Grill, you identified an individual named Dupre?

A. Dugre.

Q. Peter Dugre?

A. Yes.

Q. When did he join Pan Am?

A. I don't know when he joined Pan Am, because I believe he was one of the attorneys. He got involved with properties and facilities or corporate real estate somewhere along, I think, in '87, somewhere '87, '88.

Q. Again, he was part of the legal department when he got involved with the real estate issues?

A. No. He was formerly with the Pan

Am legal department. Went on to another job at Pan Am, world services. And from that point came back and headed up the Properties and

Facilities Department slash Corporate Real Estate.

Q. Then after Pan Am filed for bankruptcy, did he stay on?

A. Yes.

Q. He worked for the trustee?

A. I don't want to use the term. I don't know; but yes, I believe he was involved in that.

Q. You don't know whether he was then in the legal department in the 1960s or 1970s?

A. No, I don't know.

Q. Another building you had mentioned -- we talked about three of them; we also talked about your involvement with Hanger 14. And I think your original involvement was the design back when you were with the Winston Churchill firm?

A. Right.

Q. Do you recall that?

A. Right.

Q. Do you recall that hanger was

originally constructed in approximately 1958?

A. Yes, because I joined them in '60 and the building was near completion at that

point.

Q. Do you recall various renovations being undertaken in that building in the early 1970s, 1972, 1973?

A. Yes, in general. There were minor projects; they weren't major projects, and they would have been in relation to setting up shops.

Q. What was your involvement in setting up shops as project manager in the '62 to '75 period in Hanger 14?

A. My involvement was that we got the requirements from an industrial engineering department as to what was needed for the maintenance and repair of aircraft parts. We then obtained costs for this. Got outside engineers, would be after the financial approval, to implement drawings and specifications for the project. Submit that information to the Port Authority for approval prior to construction and soliciting bids and implementing the program.

Q. What was involved in establishing shops? Were there renovations done within the building, or were they add-on structures?

A. Really not renovation. It was referred to as a fit-up.

Q. What's involved in a fit-up?

A. A bear space. You have a room such as this and you have to install a certain amount of piping, electrical, exhaust symptoms to support a particular process in the repair of engines or aircraft parts.

Q. When you say "room such as this," you were actually speaking in terms of a very large room with a very high ceiling you did this work in?

A. They varied in sizes.

Q. Did they involve, these projects, particularly the one at Hanger 14, involve the installation of any floor tile that you recall?

A. It could have. Most of the shop spaces were housed in areas that you had finished concrete floors, but there were some that had tile floor.

Q. In which case, they would take the tile floor out for the shop space?

A. No. They were putting it in at that time. There may have been subsequent to that someplace where they may have removed

tile, but I don't recall. Since the building was new, it was more a setting up a shop as opposed to taking anything out.

Q. Do you recall in Building 14 that they did, in fact, install some tile during this renovation period in the late '60s, early '70s?

A. Rather than say they did install tile, I would rather say it wouldn't surprise me that there was installation of tile involved in some of these things, being office alterations.

Q. Office alterations were involved in these projects?

A. Yes.

Q. But you don't recall specifically whether tile was added or not, installed or not?

A. No. Since the building came with tile, there may have been tile patching. There may have been some areas, industrial, that would change over to offices or foreman's

office, something like that. In which case, they would put tile on the floor or carpeting.

Q. The building Hanger 14 did have

some floor tile in it prior to these renovations taking place?

A. Oh, yes. As memory serves me, yes.

Q. Do you recall whether the original construction in 1958 involved the installation of floor tile?

A. Not specifically, but I would say generally it most probably did, in that most of the offices came with floor tile as opposed to carpeting.

Q. In the work you did with the Winston Churchill firm, did that firm actually handle specifications for materials such as floor tile or approval of products such as floor tile?

A. I would believe that yes, the flooring material would have been part of their general specifications and drawings.

Q. I may have already asked you this: Do you recall any individuals from the Winston Churchill firm who worked on that Hanger 14 project?

A. I'm not certain of the name, but I think there was -- and I didn't remember before, Mr. Sterns, but I'm not...

Q. Do you know whether Corbetta worked on that construction project back in the late 1950s?

A. I believe they were the contractor. They may have been the concrete contractor as opposed to the general contractor. I believe that was done by prime contractors. Again, I believe. I'm not certain. As opposed to a general contractor.

Q. Do you recall if any of that work in Hanger 14 involved the installation of spray-on fireproofing on the steel structure?

A. No, I -- this goes back a couple years. I don't believe, generally speaking, I don't believe or don't remember, and I wasn't personally involved in that, being in the office; but it was a reinforced concrete building, the offices, as well as the...

Q. You had also mentioned renovations in the commissary building -- or Building 14. That's different from Hanger 14 I take it?

A. Let me clarify this. It was always

referred to as Hanger 14 when Pan Am had it.

The new Building 14 came into existence

recently when Japan Airlines and the Port

Authority took Hanger 14 over and converted it into a cargo building and office building.

Q. So the current Building 14 is the old Hanger 14?

A. Yes, sir.

MR. NICYPER: Off the record.

(Discussion held off the record.)

Q. Do you recall whether any of the renovation work that was done in the commissary, whether any of that involved spray-on fireproofing, or was the entire building, to your recollection, a concrete structure?

A. No, I really don't recall.

Q. Who actually paid for the construction of the JFK Building 213, original construction?

A. I don't know. It could have been, it could have been Pan Am paid for that. I don't know.

Q. With respect to the expansion of Building 67 in the late '60s to early '70s

period, who paid for that? Was that Pan Am or the Port Authority?

A. I don't know for certain. It most

probably -- I shouldn't say that. It could have been Pan Am paid for it and was reimbursed by the Port Authority. I don't know.

Q. You don't know?

A. No.

Q. You don't know whether, in fact, Pan Am paid for it and just received financing from the Port Authority?

A. There's several ways I guess that works, where the airline will put up the money, be compensated by the Port Authority within that construction period or shortly thereafter, and then it's paid back long term in lease agreements, but I don't know which category these things fit in.

Q. With respect to JFK Building 53, the expansion we talked about in the late '60s, early 1970s, do you know who paid for that or how that payment was set up?

A. No, I don't.

Q. You're not familiar with the financing arrangements regarding that expansion

project?

A. No.

Q. Prior to 1973, do you know what

other terminals around the United States Pan Am constructed, say, during the 1960s period?

A. Between what dates, please, again?

Q. Let's say, 1960 to 1973.

A. In the United States?

Q. Yes, airline terminals in the United States.

A. I don't think they constructed any airline terminals.

Q. Were there any expansions similar to the Building 53 renovation?

A. I don't think Pan Am had any other terminals that they constructed that they occupied, you know, solely occupied. I believe Los Angeles, San Francisco, Miami, I think they were all shared or leased space.

Q. From the airports?

A. Right, from the airport.

Q. The JFK setup was somewhat unique?

A. Yes. JFK was world headquarters, and that's where, I guess one of the few terminals where airlines had their individual

buildings as opposed to the airport putting up a building and subletting a portion of that space.

Q. In your experience at that time in the 1960s, that sort of setup where the airlines actually had their own separate terminals and constructed themselves was unique in the United States?

A. I think even unique to New York. I haven't much experience in that as far as, you know, what was happening on the west coast or down in Florida. But I think they shared terminals. And New York I think was one of the very few that had the airlines, TWA, United...

Q. Did you at some point in time gain any knowledge regarding potential health risks associated with asbestos or asbestos-containing materials?

A. Did I at any time become aware of the hazards of asbestos, is that the question?

Q. Did you become aware of any potential health risks regarding asbestos-containing material?

A. At some point in time, yes, I did because it was brought to my attention because

of rules and regulations, in that prior to altering or receiving approval for the alteration of any building, this is in the

later years, that you required a sign-off from an environmentalist to review the plans and specifications to determine if there was any areas involved or any asbestos involved in these areas and would sign off, yes, there is or no, there isn't.

Q. That's the first time you heard about the possibility that there might be health risks associated with asbestos-containing material?

A. Yes. Certainly was not -- in the '60s, I was not aware of it; or '65 or '70s, I don't think I was aware.

Q. This period of time you're talking about or this activity you're talking about, was that approximately the mid to late 1980s?

A. Yeah, '85 and on.

Before that I spent the ten years in the Pan Am Building. And before that I believe I knew that there was asbestos. It was a fiber. I certainly was not aware of a problem.

Q. During the period --

A. We were not informed.

Q. During the period prior to 1975 or

prior to 1973, you merely knew there was asbestos in the fireproofing?

A. Right.

Q. Do you recall when you learned that or how you learned that, that there was asbestos in the fireproofing?

A. No.

Q. Prior, then, to 1985 to your knowledge, did the Port Authority instruct any tenants to take any precaution when working around asbestos-containing materials?

A. Prior to '85?

Q. Yes.

A. I wouldn't know.

Q. To your knowledge, had that been done?

A. Please repeat the question.

Q. To your knowledge, had they ever instructed any tenants to take precaution working with asbestos-containing materials?

A. I wouldn't know. I wouldn't know. You're saying prior to '85?

Q. Yes.

A. I left the airport in '75.

Q. Let's say, then, prior to '75, did

they instruct any --

A. Not to my knowledge. There's a gap there. A lot of things could have happened in the world, and I was not aware of it.

Q. There's a gap in 1975 to 1985 when you were not at the airport; is that correct?

A. Right.

Q. Let's cover the period prior to '75. Prior to then, did the Port Authority advise any tenants to conduct any air monitoring to check the level of asbestos fibers in the air in their buildings?

A. Not that I recall. When I say "not that I recall," I don't remember. Not that I recall that they didn't do it or did do it. Okay?

Q. You don't recall?

A. That's right. At this point I was not aware of that, those procedures.

Q. In fact, prior to 1975, you don't recall ever being familiar with whether or not there were health risks associated with

asbestos?

A. Right.

Q. And the Port Authority never

advised the tenants or Pan Am about that to your knowledge?

A. Right. Thank you. Yes.

Q. Prior to 1975, then, did you ever hear that the Port Authority had advised any tenants -- or to your knowledge, did the Port Authority advise any tenants to monitor the condition of any asbestos-containing materials in the tenants' buildings?

A. Not that I recall, not that I had personal experience or involvement in.

Q. Again, prior to 1975, to your knowledge, did the Port Authority advise any tenants that spray-on fireproofing in air plenums should have a sealant placed over it? Do you ever recall hearing that prior to 1975?

A. No.

Q. No?

A. No. I'm sorry.

Q. When did you first become aware of this lawsuit?

A. I'm not -- I don't remember a date

when I may have heard something to the effect that the Port Authority was involved in a lawsuit, the installation of asbestos. I

don't -- it most probably had to be subsequent to '75.

Q. Was it subsequent to '85? Do you recall what gave rise to your learning about the lawsuit?

A. I think it was in the papers. Had to be in the papers someplace. No? Maybe not.

Q. Do you recall, I guess, is the question.

A. Well, you know, scuttlebutt. I mean, you know, just at the airport. I don't know who told me. I think there is -- it may have even been more recent than that.

There was some, I believe your attorneys, some attorneys that came around to take a look at Building 230 that the Port Authority was escorting around and said to me, do you mind, we'd like to visit the building on such and such a date. And I said don't come at two o'clock because we have seven flights going out at that time. You know, I'll give you a ladder and flashlight and stuff like that.

That was the extent of my involvement. It was not my business. It was just...

Q. You, however, for certain buildings

handled tenant alteration applications that involved getting approval from the Port Authority to do an alteration that involved asbestos removal; is that correct?

A. Right.

Q. When did you first get involved in that process?

A. '86, '87, somewhere around there.

Q. At that time did you learn about the lawsuit, or was that alteration application process something separate from your learning about the lawsuit?

A. I can't say as I recall learning about the lawsuit back then, no. No, I don't -- no.

Q. At any time prior to its filing bankruptcy, are you aware of whether Pan Am had any policy regarding how to deal with asbestos-containing materials in its buildings?

A. I believe they had a policy, which I didn't develop or get involved in. It was more of a policy for the building maintenance

people when they came upon maybe piping repairs or other things that they had to do. Was an in-house policy, yes, but it was not from the

project manager's policy.

And the policy we had was that at some point in time that in order to get something done, you had to, you know, follow the procedures of the asbestos abatement for testing and verification.

Q. As I understand it, then, the policy concerned what procedures you should follow if you are removing asbestos-containing materials, or abatements?

A. It was more of a policy that before you did anything, to -- again, it was not my policy. I didn't develop it, but I believe it was a policy that before you did anything, either remove a ceiling or repair something, that you had to be aware of that there were certain procedures to be taken, all right, to guard against handling of this stuff.

Q. You're talking about the Federal regulatory guidelines regarding this?

A. Oh, I don't want to say there's Federal guidelines. I don't know what

guidelines we used. I'm just saying I believe maintenance people had policy -- or procedure to follow, one of caution; and if there was,

you know, you went to the proper environmentalist to check it out and stuff like that.

Q. This was a policy that applied to all of the Pan Am facilities nationwide?

A. That, I can't say. I can only speak for JFK.

Q. Do you know whether there were any policies that Pan Am had that applied to facilities?

A. I'm not aware. That's not to say there was or was not. I'm not aware of if there were.

Q. Are you aware whether there are any policies that applied to any facilities other than JFK?

A. No.

Q. Did Pan Am have any policy applicable to JFK regarding whether or not to remove asbestos-containing materials, and if so, when it has to be done?

A. I'm not aware of it, but it

wouldn't surprise me that they had because Miami was a major overhaul facility, as was New York. The frame, aircraft frame as opposed to

engine.

Q. I'm not sure I understand your response, that you think Miami, there may have been a policy in Miami, or there was asbestos-containing material in Miami?

A. Yes, there most probably were, I would imagine, policies there because that was a major overhaul for aircraft frame, fuselage, as opposed to up here was engines and power plants.

Q. Did buildings at the Miami facility contain asbestos-containing materials?

A. That, I don't know. I cannot say for sure.

Q. Do you recall a policy that applied to Pan Am facilities at JFK, that it was a Pan Am policy regarding when to remove asbestos-containing materials from Pan Am's facilities?

A. I recall, I believe, there was a policy for the building maintenance operation in the event to -- in the event they had to

make repairs, to be cautious of asbestos and to be aware that materials could contain asbestos.

Q. What is the earliest date you

recall that policy?

A. It had to be after '85.

Q. This would be after you came back to JFK?

A. Right --

Q. 1985, it was instituted at some point after that; is that correct?

A. -- yes.

I don't know when it was instituted. I'm just saying I was aware of it.

Q. Do you recall --

A. You said instituted after that point. It could have been instituted before, while I was in the Pan Am Building.

Q. That's what I'm asking. Do you recall it being in place, that policy existing by the time you came back in 1985?

A. There about. When I say "there about," if I came back, I may not have heard about it the first day, but in the course of a year or six months, I believe I heard that, yes, they have a policy for the building

maintenance operations.

Q. What about policies concerning asbestos-containing materials in any Pan Am

buildings, even in the Pan Am Building where you were located, do you recall Pan Am having any policies regarding how to handle asbestos-containing materials in its buildings?

A. I don't recall having a policy in the Pan Am Building other than the Pan Am Building was operated by another organization other than Pan Am.

I was concerned with the 150,000 square feet that we occupied. So we were a tenant there essentially.

Q. Do you recall ever raising with the landlord any issues regarding asbestos-containing materials in that building?

A. Yes.

Q. When did that arise?

A. I don't remember the date, but it had to be within that 10-year frame.

Q. Sometime between 1975 and 1985?

A. Right.

Q. Do you recall whether it was earlier in that time period or later in that

time period?

A. I would say mid point of that time period.

Q. What exactly occurred in connection with that?

A. Well, again, it was again associated with alterations, office alterations.

Q. What asbestos-containing materials were found?

A. Oh, that, I don't know.

Q. You just remember --

A. I don't know, in that I did not handle those projects. They were handled from the office at JFK. I was not there as a construction manager. I was there to direct the facilities.

Q. The asbestos issue in the Pan Am Building in New York City at this time, approximately 1980, would that be --

A. '75, yeah. '80, right.

Q. -- handled by the Pan Am people who were located out of JFK?

A. Right.

Q. When I say "what type of

materials," I'm not saying which manufacturer,

but was it fireproofing material, or was it

insulation materials? Do you know what type of

material it was in that regard?

A. Conceivably it involved both or it could conceivably involve both, yes.

Q. What arose? There was a complaint to the landlord to take care of asbestos-containing materials in that building, or how did this arise and how did you become aware of it?

A. Well, I think it was common knowledge that the Pan Am Building contained asbestos on the deck, the steel deck. And insofar as piping, I think pretty much everyone was aware that there's always a possibility of having asbestos on the joints and fittings as opposed to straight ones.

Q. Do you recall whether or not the asbestos-containing materials in the Pan Am Building was removed in connection with this project you were talking about?

A. I do not recall that there were any alterations that involved asbestos removal. I do not recall.

Q. May have happened; you just don't recall either way, is that what you're saying? Or you don't think that did occur?

A. I don't think there was any need for the removal of asbestos because of alterations.

Q. How, then, did this issue regarding asbestos arise with the landlord in or around 1980?

A. I'm not certain. It could have been mentioned, could, I'm not certain, in relation to the possible subleasing or subdividing a ticket office. We had a main ticket office there, and it was larger than we needed, and I think maybe that's where, at a higher level than my level, it was discussed, the responsibility or possibility for subletting, you know, this would have to be done and that would have to be done.

Q. Do you recall which individuals were involved at Pan Am in addressing that issue of asbestos-containing materials in the Pan Am Building?

A. I'm not certain, but there's a -- there are a few people that could have been

involved, and I'm not certain of this. One would have been Charles Trip. Another person could have been a Mr. Larry Billett.

Q. B-i-l-l-e-t?

A. e-t, yeah.

Q. What were their responsibilities?

A. Well, leasing of space or --

Q. In that building?

A. Right.

Q. Do you recall what individuals from JFK got involved in the resolution of that issue, what Pan Am individuals got involved in that?

A. I don't know if he got involved or didn't get involved, but there's certainly a possibility, that Wally Russell, who is at some point in time with these other people, either before or after or, you know, was vice president of properties and facilities, so he may have gotten involved with potential discussions of asbestos in the Pan Am Building.

Q. He was located at Building 14 at JFK?

A. Yes.

Q. What was his responsibility?

A. At one time he was vice president of properties and facilities.

Q. You'd previously actually mentioned

another vice president, Karl Brook I believe?

A. Yeah. This goes back quite some time.

Q. Mr. Brook, do you know where he resides today?

A. No, I don't.

Q. Have you seen him in the last five or ten years?

A. I think he's passed on.

Q. You also mentioned Charles Boll. Do you know where he currently resides?

A. Mr. Boll lives out on Long Island.

Q. Have you had any communication with him over the last couple of years?

A. We're personal friends, yes.

Q. Do you know what town he lives in in Long Island?

A. No.

Q. Do you have that someplace in your address book?

A. Oh, I wish my wife were here; but no, I don't know. I can't think of it now.

It's near the Grumman plant out there. Does that help you?

Q. Maybe what we can do is just leave

a blank in the transcript, and when you get it, you can just fill in his address. Would you be willing to do that?

A. Oh, sure. He'll most probably hate me for it, but...

TO BE FURNISHED:

_____

_____

Q. Do you recall at any time when Pan Am, prior to its bankruptcy, when it advised its tenants or sublessees or whatever, to exercise caution when working around asbestos-containing materials?

A. No.

Q. Do you know whether Pan Am conducted any surveys in its facilities to determine to what extent those facilities contained asbestos-containing materials?

A. I vaguely remember that they had an organization come in to take air samples, and I don't know to what extent, and I believe that's when they wanted to use the terminal as

collateral for something.

Q. This is Terminal 53?

A. Yeah. Building 53, yeah.

Q. Do you recall the approximate year that was after you came back after 1985?

A. Gee, no, I don't know.

Q. You don't recall?

A. No. No, I don't know.

Q. But they conducted air samples to determine asbestos levels in the building?

A. I believe so.

Q. Who would know about that?

A. Potentially Wally Russell. Unfortunately, the names, I just can't think of the names because there were a couple other people in that time frame that were in the Corporate Real Estate Department.

I just can't remember -- I'll remember their names. When I think of it, I'll let you know who they are, then fill in some blank spaces in this time frame, but -- Russell and possibly Billett. Tom Ringkamp. Another name, was vice president.

Q. Do you know how to spell that?

A. R-i-n-g-k-a-m-p, Ringkamp.

William Van Sitter.

Q. Is that V-a-n?

A. V-a-n S-i-t-t...

Q. e-r?

A. Yeah.

Q. What were his responsibilities to the best of your recollection?

A. He was at one point in time acting vice president of properties, and he was in the corporate real estate -- on the real estate section of the properties and facilities.

Q. Do you have any idea where he currently resides, or did you know where he resided at that time?

A. He's in Florida somewhere, but I don't know.

Q. Do you know where Mr. Russell currently resides?

A. No. But he's a consultant now, and I think he's in Arizona. If you look up airport consultants, you'll see he's Russell Consulting.

Q. Do you know whether at any time prior to Pan Am filing for bankruptcy, whether it advised its customers or its patrons that

there was asbestos-containing materials in certain of its buildings?

A. No, I do not.

Q. You don't recall that taking place?
A. Right. Either if it took place or it didn't take place, I don't recall.
Q. To your knowledge, did Pan Am ever discuss with the Port Authority whether or not Pan Am would be a party in this lawsuit?
A. No, I don't know that at all.
Q. Who at Pan Am, if there were such discussions, would be the likely person to be involved in any such discussions with the Port Authority regarding that issue?
A. I would imagine members of our legal department. I won't -- the legal department.
Q. Such as Mr. Dugre?
A. Dugre, right. And others, in that Mr. Dugre as vice president of properties and facilities was no longer associated with the legal department.
Q. I see, but at the time of the lawsuit --
A. Right.

Q. -- do you know whether Pan Am ever discussed with the Port Authority whether or not the Port Authority could obtain money in

this lawsuit for asbestos abatements that Pan Am paid for?

A. No, I wouldn't know.

Q. Do you know whether Pan Am at any time asked the Port Authority to seek recovery in this lawsuit on Pan Am's behalf?

A. No, I do not know that.

Q. To your knowledge, that didn't occur?

A. No, I would not have any knowledge of that.

Q. You just don't know either way?

A. Right. Right.

Q. Do you recall, I think you said that Pan Am did abate some asbestos-containing materials from at least Building 53 and Building 57; is that correct?

MS. WATKINS: Sixty-seven.

Q. I'm sorry. Building 53 and 67; is that correct?

A. Sixty-seven and fifty-three, yes.

Q. Did Pan Am sue anybody to recover

the cost of those abatements?

A. Not to my knowledge.

Q. Do you know why, why they did not?

A. Well, not my knowledge. I wouldn't be aware one way or the other.

Q. You were never told that they did sue anybody?

A. Right.

Q. Did anybody discuss with you whether they would sue anybody for those?

A. No.

Q. To your knowledge, did Pan Am ever assign to the Port Authority Pan Am's rights to bring a lawsuit against asbestos-containing material manufacturers?

A. Way out of my realm.

Q. You don't know of that?

A. Right.

Q. The asbestos abatement you talked about in Building 67, forgive me if I already asked this question, do you know what type of material it was? Was it a fireproofing material or a pipe insulation material, what type of material was removed?

A. That was on the structural members.

Q. That would be a spray-on fireproofing?

A. Right.

Q. Do you recall when that occurred?
A. When the fireproofing occurred or --
Q. When it was removed. I'm sorry. When this abatement took place.
A. No, I do not.
Q. Do you recall even a general time frame? Was it prior to 1990 or after 1990?
A. Oh, it had to be prior to 1990 -- wait.
(Pause)
A. It was prior to 1990.
Q. Was it after 1985, after you moved back to JFK?
A. I would guess, yes, it was.
Q. What was your involvement in that process?
A. I didn't get involved in that at all.
Q. You weren't involved in the TAAs, tenant alteration application, for that job?
A. No.

Q. Did Pan Am pay for that abatement?

A. I don't know. I would imagine they did, I assume.

Q. Do you know whether they were reimbursed by the Port Authority any cost in connection with that --

A. That, I do not know, no.

Q. To your knowledge, has the Port Authority ever paid for any asbestos removals in Building 67?

A. No, I do not know.

Q. Do you recall in Building 53, there were a series of asbestos abatement projects handled by Pan Am?

A. Yes.

Q. What was your involvement in that process?

A. Depending on what specific project, I was involved in a couple projects that involved the removal of asbestos in Building 53.

Q. Do you recall which projects, from what areas it was removed?

A. Yes. They were the arrivals slash baggage claim area.

Q. Do you recall which baggage claim area in Building 53 that was?

A. Well, it was the east and west

baggage claim areas.

Q. There, in fact, are four baggage claim areas in Building 53?

A. There were two baggage claims. There was the immigration area, and I don't recall -- there were three areas that potentially involved removal of asbestos. And that was the immigration area and the baggage claim areas east and west side.

Q. Do you know why it was that asbestos-containing materials were removed from those areas?

A. Yes. They were removed to facilitate the removal of walls that existed to permit the expansion and also to reconnect, then, other elements to the structure.

Q. Are you aware of any other asbestos abatements in Pan Am Building 53?

A. There are a few subtenants, we're talking in general, that had the responsibility to remove asbestos in their programs to create or renovate stores. It was their duty. There

was a deli. I don't remember the names, specific names or title, but there were a couple areas.

Q. When you say "It was their duty," did Pan Am negotiate a sublease with these subtenants and delegate that responsibility to the subtenant?

A. Maybe I used the wrong word, "duty." If they wanted to sublet the space, there was apparently a lease agreement whereby they were responsible for all the construction and all the asbestos removal that may have been required for that renovation or creating that store.

Q. This was an agreement between Pan Am and this subtenant?

A. Yes, to the best of my knowledge. I wasn't in real estate.

Q. Again, other people who might know about that are Mr. Russell?

A. Mr. Russell. There's others. There's a Pam Dorso (phonetic), a Sue Felki (phonetic). Don't ask me how to spell the name.

Q. To your knowledge, did the Port

Authority ever pay for any of these asbestos removals in Building 53?

A. Not to my knowledge.

Q. To your knowledge, were the removals that were conducted by Pan Am itself paid for by Pan Am?

A. Yes.

Q. To your knowledge, did the Port Authority at any time reimburse Pan Am for any of those abatement costs?

A. Not to my knowledge.

Q. Did Pan Am sue anybody to recover those costs, to your knowledge?

A. Not to my knowledge.

Q. In connection with Pan Am's bankruptcy, ultimately Delta Airlines took over Building 53; is that correct?

A. Yes.

Q. Do you know how that was done? Was that done directly from Pan Am, or did Pan Am turn the building over to the Port Authority, and the Port Authority then subsequently leased it to Delta?

A. I don't know.

Q. You don't know?

A. No.

Q. Do you know who was involved in those discussions from Pan Am on Pan Am's side?

A. Mr. Dugre, or Peter Dugre, would be at least a starting point, at least a starting point, yes.

Q. Do you know whether when Delta took over, it knew that there was asbestos-containing material in the building? I mean, that was no secret?

A. I don't know officially if they knew, but I don't think it was any secret that the building had asbestos in it, so I would imagine that they were aware of it.

Q. Are you familiar at all with any of the details regarding Delta either assuming the lease or Delta taking over that structure?

A. No. I didn't get involved in that.

Q. Were you in any way directly involved in Pan Am's bankruptcy? You said to some extent you were involved with liquidating assets.

A. Directly involved, no.

Q. Indirectly involved, you said you had some involvement with liquidating assets?

A. Selling furniture, yes.

Q. That was not structures, buildings?

A. No. It was furniture and finishes.

Q. Do you know whether or not the Port Authority brought a bankruptcy claim against Pan Am?

A. I wouldn't know.

Q. Do you recall back in the late 1960s, early 1970s ever hearing about a controversy regarding application of spray-on fireproofing at the World Trade Center?

A. No.

Q. You don't recall hearing anybody at that time talking about whether or not there might be health concerns regarding asbestos spray-on fireproofing?

A. No, not at all.

Q. Do you recall the Port Authority telling Pan Am about this situation?

A. I haven't any memory of that at all.

Q. Do you recall ever being out at Building 53 at that period of time, 1969 to 1972, during the time, any time when they were putting on spray-on fireproofing on the steel

structure?

A. No, I can't say as I remember anything back then.

Q. Do you recall whether or not they had put up tarpaulins around the area that was being fireproofed?

A. No, I do not. I don't know.

Q. Do you recall ever seeing any tarpaulins up around the structure that was being built?

A. No. As I said before, I was working Hanger 14, and on occasion, we were invited over, you know, as inquisitors, you know, in that department looking at things and how it's done.

Q. When you were invited over, did anybody at any time from the Port Authority advise you to take precautions because there might be asbestos-containing materials?

A. If they did, I was -- I'm not aware of it now, and I wasn't aware of it then. I don't remember.

Q. You don't recall them telling you that?

A. No.

Q. Mr. Grill, let me show you what I'd like to ask the court reporter to mark as Grill Exhibit 2. This is a five-page document with a

heading on the front page entitled "Port Authority of New York and New Jersey Asbestos Certification Letter and Permit Application."

Take whatever time you'd like to review that.

EXH (Defendant's Grill 2, Port Authority of New York and New Jersey Asbestos Certification Letter and Permit Application Y-6112 with attached Waiver Letter, was marked for identification.)

(Witness peruses document.)

Q. Have you had a chance to review that?

A. Yes.

Q. Could you describe what this document is?

Let me ask you this, are you familiar with the document?

A. Yes. This is an asbestos -- nonasbestos project certification for nonasbestos versus asbestos project, yes.

Q. When you say certification for nonasbestos or asbestos, you're looking at --

A. The first part is certification of a nonasbestos project.

Q. You're referring to the first three

pages of Exhibit 2; is that correct?

A. Right.

Q. What does that mean, certification of a nonasbestos project? What significance did this document have in connection with your responsibility?

A. That the environmentalist inspected the area of the project and he would have determined if there was asbestos that would be involved in implementing the project.

Q. For this project, does this indicate that there was asbestos involved?

A. Yes.

Q. This is concerning JFK Building 53; is that correct?

A. Right.

Q. The environmentalist that you're referring to is on page 3. Is that APED or which company is listed on this document as the environmental specialist?

A. Ask me the question again, please.

Q. Which company, in looking at the

document here, is the environmental consultant or specialist that was giving such a certification here?

A. ATC Environmental.

Q. ATC?

A. Yeah.

Q. On the front page here, it identifies, if you look halfway down the page, there's an "NY Facility" on the front page there. Do you see that? Halfway down the page it says New York facility or "NY Facility."

A. Right.

Q. It identifies it as the "Pan American Worldport, Building 53, West, Pilots Lounge, Column Support Modification"?

A. Right.

Q. "JFKIA" and then a number after that that says --

A. That's an application number.

Q. That's Y-6112?

A. Right.

Q. That Y-6112 is a tenant alteration application number?

A. Yes.

Q. Those are numbers used by the Port

Authority; is that correct?

A. Right.

Q. So they are seeking to notify the

Port Authority of an asbestos abatement project; is that correct?

A. Right.

Q. Why was that necessary?

A. I think there was a rule, I think, and I can't tell you specifically where it is in the fine print, but I think we mentioned that before, that prior to implementing any construction project, you had to have this (indicating) form submitted to the Port Authority to their satisfaction before you went ahead with a project.

Q. The Port Authority wanted to know what asbestos was being removed or not removed from --

A. Right.

Q. -- what facilities at the airport?

A. Before you got your approval to proceed with construction, this had to be addressed.

Q. Look at the last two pages of this document. There's a heading on the second to

last page that's titled "Waiver Letter Asbestos Removal," and then under that it says, "Y6112 Pan Am." Do you see that?

A. Right.

Q. Could you describe for me what these two pages are?

A. It was a form that had requirements that if we wanted to proceed with the project on an expeditious basis, we had to sign this form.

Q. You had to sign this form in order to proceed on an expeditious basis?

A. Right.

Q. Otherwise, they wouldn't give you approval for the project?

A. Well, understand, approval for the project had to take many many steps, more steps in the determining of responsibility, as I recall, and this is I believe something that the Port Authority came up with that gave the airline the option to be responsible for this and permitted, I believe...

Q. The last page here has a heading that says "Waiver." Do you see that?

A. Right. Yeah.

Q. Then it has "Pan American World Airways" filled in?

A. Yes.

Q. "...hereby waives the right to reimbursement from the Port Authority for asbestos abatement cost, and waives the right to bring suit against the Port Authority for any cause relating to the presence of asbestos in the premises covered by the lease or permit under which this Tenant Alteration Application is submitted," do you see that?

A. Yes.

Q. Below that I see your name is signed?

A. Right.

Q. By signing it, was it your understanding that you were waiving on behalf of Pan Am, Pan Am's right to seek recovery for this asbestos abatement?

A. Yes, it appears that way.

Q. Was that your understanding at the time you signed it?

A. Generally speaking, yes.

Q. Did you have an understanding that if you did not sign this, you would be allowing

the Port Authority to take your rights or Pan Am's rights to recover for money in this lawsuit?

A. Repeat that, please.

Q. Did you have any understanding that if you did not sign this document, that the Port Authority, then, would have responsibility to recover money in this lawsuit?

A. If I did not sign it --

Q. Here's a much easier way of asking: If you didn't sign this, what was your understanding?

A. My understanding was that it would get -- if we did not sign it, there were many approvals and understandings that had to take place that would be lengthy; that, you know, that the project could not proceed until we went through all these other steps. And these other steps could potentially take two months, three months, six months to get approval between the Port Authority and whomever.

Q. I see. So if you did not sign this, then, your understanding was --

A. Well, we weren't forced to sign it. We signed it in the interest of being able to

proceed with projects on a timely basis.

Q. It's your understanding if you did not sign this, the approval process was much

more difficult then?

A. Yes. Right.

Q. It's your understanding for signing this particular document that we have in front of you, that is Exhibit 2, was that Pan Am signed that so that it could move forward on --

A. Yes.

Q. -- on a timely basis; is that correct?

A. Yes.

Q. Was there any other reason for Pan Am signing it to your knowledge?

A. No.

Q. Did Pan Am have any interest at this time, to your knowledge, or in connection with signing this, did you understand that Pan Am had any interest in suing the manufacturers of any of these asbestos-containing materials?

A. I would not be aware if they did or did not.

Q. Did your signing of this in any way in your mind concern whether or not Pan Am

would or could sue any of the manufacturers of asbestos-containing materials?

A. I don't know.

Q. You didn't have an understanding that it...

A. Why don't you repeat that. Make sure it was clear.

Q. In signing this, did you have an understanding of whether or not that could affect Pan Am's right to sue any manufacturers of asbestos-containing materials being removed?

A. Well, I assumed it had some impact, some impact. Otherwise, I would not be asked to sign it, or we would not be asked to sign it.

Q. If you read the waiver letter here, it refers to Pan Am waiving its right for reimbursement from the Port Authority; is that correct?

A. Right. And I fully understood that.

Q. There's nothing here in this document that assigns Pan Am's right to the Port Authority to seek cost recovery; is that correct?

A. Not being an attorney --

Q. I mean according to your understanding.

A. Yes.
Q. There's nothing there that has that; is that correct?
A. Right.
Q. Did you ever understand Pan Am at any time to assign any of its rights to the Port Authority to seek recovery for asbestos in Building 53 or Building 67?
A. No.
Q. Did you sign one of these every time there was an asbestos abatement project at the Worldport to your knowledge?
A. I did not sign those for every asbestos project. I signed those for the projects that I was involved in.
Q. Did Pan Am sign one of these for every asbestos project it undertook at Building 53?
A. I would say, I would think that, yes, if everyone was doing their homework, yes, that was routine.
Q. Certainly it was its intention to

do that?

A. Right, yes. Yes.

Q. At no time, to your knowledge, did

Pan Am seek reimbursement from the Port Authority or anybody else for asbestos-containing material removals from Building 53; is that correct?

A. That's correct.

Q. Let me show you what I'd like to mark as Grill Exhibit 3. This is another one of these Asbestos Certification Letters and Permit Applications. This one concerns project Y-6142A.

EXH (Defendant's Grill 3, Port Authority of New York and New Jersey Asbestos Certification Letter and Permit Application Y-6142A with attached Waiver Letter, was marked for identification.)

(Witness peruses document.)

Q. Have you had a chance to review that?

A. Yes.

Q. This is essentially the same as Exhibit 2; is that correct? It's just with respect to a different project?

A. Yes.

Q. It, too, if you look at the last two pages, has another one of these Waiver

Letter Asbestos Removal letters. Do you see that?

A. Yes.

Q. Would your answers be any different with respect to this letter than they were with respect to the letter attached to Exhibit 2?

A. No.

Q. The environmental consultant for this project is also ATC Environmental; is that correct?

A. Yes.

Q. Did Pan Am always use them as environmental consultants, to your knowledge, with regard to asbestos abatement projects?

A. They were used, and I can't say in every case, but at least the cases, the jobs that I was involved in, in that time frame. They may have used others, other engineers.

Q. Had you ever had any communications with an individual at the Port Authority named Kevin Bleach?

A. No. If I did, I don't remember.

Q. Did you have any communication with an individual called Paul Fernandez?

A. Yes, that I know.

Q. Mr. Fernandez was in the tenant liaison office; was he the liaison person for Pan Am?

A. No. -- oh, yes. He's with the Port Authority, yes.

Q. Yes. He was a Port Authority employee?

A. Right.

Q. He was the person with whom Pan Am communicated --

A. Right.

Q. -- at this point in time?

A. Right.

Q. Let me show you a document I'd like to mark as Grill Exhibit 4. This is a six-page document, again consisting of an Asbestos Certification Letter and Permit Application. This one regarding application Y-6256A.

The difference here is this, then, has a, looks like what appears to be a Port Authority buckslip attached to the front of it dated May 11, 1990 from Paul Fernandez to Kevin

Bleach.

EXH (Defendant's Grill 4, buckslip from Paul Fernandez to Kevin Bleach dated May

11, 1990 with Port Authority of New York and New Jersey Asbestos Certification Letter and Permit Application Y-6256A and attached Waiver Letter, was marked for identification.)

(Witness peruses document.)

Q. Did you have an opportunity to review that?

A. Yes.

Q. Is this a document you've seen before?

A. I hope I saw it; I signed it. But I --

Q. In fact, that's your signature on the last page, correct?

A. Yes. But I'll be darned if I can remember.

I remember where the lounge was. It was a small lounge, but I can't remember where that asbestos was. I remember the area and the purpose of the lounge.

Q. This indicates only 300 square feet

of spray-on fireproofing; is that correct?

A. Yeah. Refugee lounge.

They wouldn't dare call it a

refugee lounge now.

Q. Again, this document is like what we looked at in Exhibits 2 and 3; is that correct?

A. Yes.

Q. Would your answers concerning the last two pages, this waiver letter, be the same as they were with respect to Exhibit 2?

A. Yes.

Q. Each of the Exhibits 2, 3 and 4, that is your signature on the last page of each one of those exhibits; is that correct?

A. Yes.

Q. You signed those in the ordinary course of business; is that correct?

A. Yes.

Q. It was part of your responsibilities at that time to sign documents such as this; is that correct?

A. Well, either I assumed it; but yes, it was part.

Q. Let me show you a document I'd like

to mark as Grill Exhibit 5. This is a five-page document, again an Asbestos Certification Letter and Permit Application.

This appears to have the Tenant Alteration Application Number Y-6110A.

Take whatever time you'd like to review that.

EXH (Defendant's Grill 5, Port Authority of New York and New Jersey Asbestos Certification Letter and Permit Application Y-6110A with attached Waiver Letter, was marked for identification.)

(Witness peruses document.)

Q. Have you had a chance to review that?

A. Yes.

Q. This document appears to be the same as Exhibits 2 through 4, just for another TAA; is that correct?

A. Yes.

Q. Is that your signature on the last page?

A. Yes.

Q. You've signed for Mr. Dugre?

A. Right.

Q. Was Mr. Dugre your boss at that time?

A. Yes.

Q. Do you know why it was at this point in time you're signing on his behalf; whereas, in other instances, you signed directly by yourself?

A. No. No, other than maybe we're still just tightening up on the office procedures.

Q. Again --

A. I --

Q. Go ahead.

A. Nothing specific in that it was a meeting of minds, you know, today we're going to do this versus that, no.

Q. With respect to the last two pages of Exhibit 5, these two pages that are the waiver letter, would your answers with respect to those be the same as they were with respect to the waivers that are on Exhibit 2?

A. Yes. I mean, this is the same approach, same general purpose.

Q. Did you know an individual named J.E. Baxter?

A. Yes.

Q. What were Mr. Baxter's responsibilities at Pan Am?

A. He was regional managing director.
Q. Was he located at --
A. At Building 53.
Q. -- at Building 53?
A. Yes.
Q. What actual responsibilities did he handle at Building 53 as regional director?
A. He was responsible for the day-to-day operation of getting passengers on board on time and getting -- deplaning on time, total operation in the northeast.
Q. In the northeast, not just for Building 53?
A. Right. At one point in time, he had the Building 53 as well as the northeast.
Q. Did you know an individual named Charles -- you already mentioned Charles Boll?
A. Right.
Q. In the 1989 time frame, what were his responsibilities as an employee of Pan Am?
A. I believe at that time it was project manager.

Q. For what project?

A. They varied but primarily for mechanical systems, mechanical baggage handling

systems.

Q. Were there mechanical system renovations being undertaken at this point, in 1989?

A. There could have been. I can't say.

I know there were conveyor modifications and installations as opposed to heating and ventilating. I'm sure there's always heating and ventilating problems in the building that one has to, you know, address. But to say specifically each of these jobs...

Q. Were his responsibilities limited to Building 53, or were they broader than that?

A. The responsibilities were the jobs that were assigned to you.

Q. The jobs assigned to him, did they involve only JFK Airport or projects beyond JFK?

A. Oh, no projects beyond JFK.

MR. NICYPER: This might be a good time just to take a short break.

(Recess taken.)

Q. I think just before the break, Mr. Grill, you had mentioned something about one of

the abatements was a small abatement involving concrete; is that correct?

A. Yes.

Q. Which one was that you were referring to?

A. I think that was, I think in the pilots' lounge.

MS. GRUENLOH: You think it was the last one?

Q. Exhibit 5?

A. It wasn't that.

MS. GRUENLOH: Here's "pilot's lounge."

THE WITNESS: Yes, pilots' lounge.

Q. That's Exhibit 3 you're looking at now?

A. Yes. Twenty square feet of concrete spray-on.

MS. GRUENLOH: Exhibit 2.

Q. With regard to this abatement, what is your recollection as to why, what was being done here?

A. I think it was concrete

fireproofing up to a certain point.

Q. On a column. The column was

actually surrounded with concrete?

A. Right, and on top it was fireproof spray-on I believe. But in order to get up there and work in that area, that's what the concern was.

Q. They didn't know whether they would be coming in contact with the fireproofing, but as a precaution --

A. Right. It wasn't necessary to remove it because you had to have access to where the fireproofing was. You had to have access, you know, in a short distance from the fireproofing.

Q. So they weren't sure whether or not they'd be coming in contact with the fireproofing, but they thought they might be?

A. This was the concrete (indicating). This was the steel column, and the fireproofing was up here (indicating). So in order for somebody to work here (indicating) --

Q. To work down below where the spray-on fireproofing was?

A. Right. The spray-on fireproofing touched the concrete. All right? Fireproofing, there was nothing wrong with the

spray-on fireproofing. It was the concrete where the fireproofing was sprayed. So in order to patch this, conceivably you were close to it. In any case, when you got close to an area that had fireproofing on it, you know, you had to take precautions.

Q. So it was generally, it was your understanding when you got close to an area that had asbestos-containing fireproofing, you had to take it out?

A. You had to take it out or provide protection that the person doing this job, that it was not asbestos related.

Q. Who made those decisions for Pan Am? Was that done by the environmental consultant?

A. Yes. The environmental consultant and also the Port Authority would look at it and say, although this may not be an asbestos removal project, to have access to something, you're working in such close proximity of this.

Q. That you might touch it?

A. Right.

Q. So the Port Authority actually would make a determination and tell them at

times that it had to remove or not remove material?

A. Right. And there was always good communication between the environmentalist and the Port and the client, saying, yes, you know, rather than taking any chances, this is what we should do to be on the -- err on the safe side.

Q. But at times those decisions were made or directed by the Port Authority on when to remove?

A. Directed, ultimately I guess it was the environmentalist who planned and prepared drawings and procedures; but, yes, it was the Port Authority that jointly dictated what had to be done or commented on it.

Q. I'd like to now, if I could, go to the time, I guess, beginning in 1993, March 1993 when you were with Tower Air and cover the time you were actually employed by Tower Air and then the same period of time under which you were consultant. So it would be the period March 1993 to July 1995.

Did you have any involvement at that time with lease negotiations between Tower Air and the Port Authority?

A. No.

Q. Who on behalf of Tower Air handled lease negotiations?

A. I'm not certain, but most probably it would have been the owner, Mr. Nachtomi.

Q. Do you know how to spell that? This is the name you wrote on Exhibit 1-A?

A. No. That was Ann Atkabowski.

(Witness hands document.)

Q. There may have been others, but I'm not -- maybe his attorneys got involved. I don't know.

Q. What was Mr. Nachtomi's title with Tower; he's employed by Tower Air?

A. He's the president or the owner, chairman. I'm not sure.

Q. Did you ever have any communications with Robert Treiling during the time that you were there, T-r-e-i-l-i-n-g?

A. Treiling.

Q. Treiling. I'm sorry.

A. Yes.

Q. What were the nature of your communications with Mr. Treiling?

A. Strictly on the status of

reimbursement, financial reimbursement from the Port for this project.

Q. When you say "financial reimbursement," did Tower Air actually incur the cost of the asbestos abatement at its facility?

A. Did they incur the cost? No. I believe they were reimbursed by the Port.

Q. That was your understanding from the lease -- through these negotiations with Mr. Treiling?

A. Let me say that I did not deal with Mr. Treiling as far as the terms and conditions of the lease. That had been already set up, or it was apparently an agreement between the parties that the lease as granted contained certain elements.

My discussions with Treiling was only insofar as processing payment for reimbursement, because I initiated these requests for reimbursement. They were -- Mr. Treiling's desk was the first desk they went

to. Then it went on to the resident engineers and stuff like that. It had nothing to do with terms and conditions of the lease.

Q. When you say "reimbursement," was this actual reimbursement, or was this something Tower Air was paying back over time?

A. It was reimbursement in the duration of the period of the construction.

Q. But then did Tower Air have responsibility to pay that back over time for years after construction?

A. I believe so. I believe so.

Q. When you say "reimbursement," it was really more of a financing arrangement?

A. Yes. It was initially a reimbursement, that you got a check from the Port Authority to cover you for these costs, and then what happened after that as far as what portion was rent, what portion was additional rent in the financing of that I'm not familiar with.

Q. It was paid back over time?

A. Yes, I believe so.

Q. So this was something like a loan, then, from the Port Authority?

A. Yes.

Q. In other words, not a direct reimbursement; they were not incurring the

cost; is that correct?

A. Right.

Q. You submitted these letters to Mr. Treiling directly?

A. Right.

Q. He passed them on someplace within the Port Authority?

A. The resident engineer's office.

Q. Were these checks to Tower Air, or were these paid directly to the environmental consultant and the renovation --

A. No. To Tower Air.

Q. Did this concern the entire renovation project or just the asbestos portion?

A. No. The entire project.

Q. In other words, there was renovation going on that did not pertain to asbestos removal, correct?

A. Oh, yes, yes.

Q. Charles Boll also worked for Tower Air; is that correct?

A. Oh, no, no. No.

Q. Did he have any involvement with activities at Tower Air?

A. No.

(Witness confers with counsel.)

Q. Do you know whether there were any discussions with Tower Air regarding this lawsuit between the Port Authority and Tower Air?

A. I'm not aware of any discussions or -- no.

Q. Do you know whether Tower Air at any time considered becoming a party to this lawsuit?

A. No, I do not know.

Q. Tower Air, as I understand it, then, incurred money for the asbestos removal at Building 213; is that correct?

A. Right.

Q. Then it received, as you described this process, a loan from the Port Authority, which it then paid back over time?

A. Yes.

Q. Did Tower Air ever consider suing the manufacturers of any of the

asbestos-containing materials at 213, Building 213?

A. I would not be privy to that

information.

Q. Did you ever hear of that?

A. No, sir.

Q. Do you know whether the Port Authority ever told Tower Air that Tower Air would try to cover any of the costs for that asbestos removal project?

A. I would not be aware of any conversation regarding that, no.

Q. Who would handle that on behalf of Tower Air, if anybody? If you wanted to find out whether or not the Port Authority communicated with Tower Air regarding this lawsuit, who would you talk to? Who would be the likely person you would go to at Tower Air to find that out?

A. Nachtomi; the vice president of operations, Ann Atkabowski. There could have been others. There could have been a Mr. Gelban.

Q. Mr. Steve Gelban?

A. Right.

Q. He's outside counsel for Tower Air;

is that right?

A. Right, but I wouldn't know. Could

be.

Q. I think you've already testified, you're not aware of whether or not Tower Air has other facilities at any place throughout the United States other than just space it rents; is that correct?

A. I was only aware of the project at 213. That was the only...

Q. But aside from the project, is that the only Tower Air facility you're aware of?

A. Yes, that's the only facility that I know Tower Air is involved in; that's 213 and Hanger 17.

Q. You know, however, that they do rent space at other airports around the country?

A. I would assume they'd have to rent space. I don't know for a fact that they rent space.

Q. They fly to other areas; is that correct?

A. Right. So that's why I'm assuming.

Q. In order to fly to another airport, you at least must have some type of facility, whether it be a gate or access to a gate or

joint involvement with a gate; is that correct?

A. Right, but you could also have another airline service you or another airport operator service your aircraft, just turnaround, and you would not have any leases necessarily or subleases or whatever in that area.

Q. Would just be a servicing arrangement?

A. Right, service arrangement for your aircraft, so you're not leasing anything. You're paying so much per hour for the gate.

Q. In other words, passengers to go in and out of the gate; is that correct?

A. Right.

Q. So there would be at least some arrangement concerning that facility?

A. Right, some arrangement, yes.

Q. Are you aware of any policy Tower Air has or ever had regarding asbestos-containing materials in any of its

facilities?

A. No, sir.

Q. To your knowledge, did the Port

Authority ever instruct Tower Air to notify its patrons that there was asbestos-containing material in Building 213?

A. I'm not aware.

Q. To your knowledge, did Tower Air ever do that?

A. I don't know.

Q. Are you aware of them ever having done it?

A. No, I'm not aware.

Q. Are you aware at the time you were at the Tower Air facility of whether Tower Air placed any signs notifying customers or patrons that there was asbestos-containing material in that building, 213?

A. I'm not aware of that happening.

Q. You never saw any signs?

A. Never saw any.

Q. When Tower Air did the renovation in that building, it did not remove all the asbestos-containing material; is that correct?

A. That's correct.

Q. Approximately half was taken out and half remained; is that correct?

A. Yes.

Q. What was your involvement with the asbestos removal project? What responsibility did you have?

A. I had the responsibility of getting an environmentalist to check the areas that was thought of as being needed to implement the plans or the renovations that were called out by the architect.

Q. And the environmentalist you retained was Authentica; is that correct?

A. Yes.

Q. How did you go about selecting Authentica? What were your criteria?

A. They had done work for Tower Air before I got there, so we continued with them.

Q. What other facilities did they do work for Tower Air at, what facility did they do work?

A. They also did work for Hanger 17.

Q. Hanger 17 at JFK?

A. Yes.

Q. That was another facility that

Tower Air operated?

A. Yes.

Q. Did you oversee the actual

abatement process, asbestos abatement process that went on at Building 213?

A. I saw a portion of it.

Q. What portion is it that you monitored?

A. The last, the last half of the project.

Q. Why is it that you saw only the last half of the project as opposed to the first half?

A. Because I was not there for the first half. It was, when I joined Tower the major portion of the asbestos that had to be removed was removed.

Q. Had already been removed?

A. Yes.

Q. Was that done by a different environmental consultant, or was that also done by Authentica?

A. No. I believe it was the same company, Authentica.

Q. Who made the determination of

whether or not to remove asbestos-containing material in Building 213?

A. The determination was made by the

need to go into these additional areas either to modify beams or have access to certain areas for the installation of an elevator, doors that had not been specified on the initial plan or by the architect as having to have access to.

Q. Who made the determination of whether or not to remove asbestos-containing materials? Would that be --

A. The environmentalist.

Q. Did they make a determination or a recommendation?

A. Determination if we wanted to get involved in a certain area and implement a certain program, the asbestos was in the way, therefore we had to remove it.

Q. They gave a recommendation that it had to be removed?

A. Right. We're going back to the form.

Q. Who at Tower Air agreed with or disagreed with that recommendation?

A. Ann Atkabowski.

Q. That was solely her responsibility;

that was not the responsibility of Mr.

Nachtomi?

A. I don't know whose responsibility it would have been above the level of Ann Atkabowski, because she's the person I reported to then.

Q. Is she still with Tower Air?

A. No.

Q. Do you know where she's located today?

A. I believe she's working in Building 53, but I don't know with what airline.

Q. You don't know if she's employed by Delta?

A. No, she's not employed by Delta.

Q. Delta currently operates Building 53; is that correct?

A. Yes.

Q. But she may be working with a subtenant there?

A. Right.

Q. What was the cost of the asbestos abatement project at Building 213?

A. I don't remember.

Q. You say Authentica was the environmental consultant; is that correct?

A. Right.
Q. Who actually did the removal, which company was that?
(Pause)
Q. Do you recall?
A. I don't want to bet my life on it, but I think it was Ogden Allied. That must be part of the record someplace. You have those records.
(Witness confers with counsel.)
Q. Do you recall whether Ogden Allied also assisted in some of the renovation work, assisting in taking down partitions in order to get at where the asbestos-containing material was located?
A. It's conceivable, yes, they may have taken down some walls that normally could not have been removed without interfering with asbestos, conceivably. But they were not a demolition contractor.
Q. They weren't a demolition contractor?

A. No.

Q. But these were walls that had to be taken down in connection with the renovation

project; is that correct?

A. Right.

Q. So it was convenient to have them do it if they were going to be doing the asbestos abatement too; is that correct?

A. Right.

Q. By the removing of the walls it was not required -- the asbestos removal was more required by whatever was being done by the renovation; is that correct?

A. It was not required by -- the asbestos removal, it was required because you could not remove the wall without disturbing the asbestos, hand-in-hand.

Q. And the wall had to be removed to do whatever was required for the renovation?

A. Yes, sir.

Q. Do you recall that that happened in several locations in the building, where you utilized Ogden Allied's service to take down some of the partitions or the walls?

A. In my -- in a portion that I was

involved in, it was minimal, the removal of walls or other things were minimal.

Q. But there were several walls; is

that correct?

A. I --

Q. You don't recall?

A. I don't recall.

Q. Was there anybody else from Tower Air who had responsibility in connection with the renovation or asbestos abatement project other than you and Ann Atkabowski?

A. Not to my knowledge.

Q. Do you recall that in connection with that project, a new spray-on fireproofing was installed?

A. Right, yes.

Q. Do you recall what material or what product that was that was installed?

A. No, I do not.

Q. Do you recall who the manufacturer was?

A. No, I do not.

Q. If I could, let me step back now again, I apologize for jumping back and forth here a bit, back to the period of time you were

project manager in the Properties and Facilities Department at Pan Am during the period 1962 to 1975.

Do you recall at any time the Port Authority issuing instructions not to use asbestos-containing materials in buildings?

A. I do not recall.

Q. Do you recall at any time the Port Authority requiring certain procedures be followed if asbestos-containing materials were to be installed at buildings at JFK Airport?

A. I do not recall. That's not to say it wasn't. I just don't remember.

Q. You don't recall that happening?

A. Right.

Q. Do you recall in connection with any of the buildings that we talked about that were constructed or expanded in the 1969 to 1972 period, whether Pan Am had switched from an asbestos-containing material to a nonasbestos-containing material?

A. Not at all, I don't recall, no.

Q. Do you recall whether Pan Am did that at any facility throughout the nation?

A. No, sir, no.

Q. I take it, then, you were not involved in any discussions on whether or not to switch from asbestos-containing fireproofing

to a nonasbestos-containing fireproofing; is that accurate?

A. That's correct.

Q. Going back to the period of time when you were at Tower Air, did you know an individual named Mr. Meserole?

A. Yes. Corky Meserole the II.

Q. You were refreshed about that with some cards that you have with you.

Did you bring any other cards with you today that have some other individuals' names?

A. No. I just brought these in, that they were a few cards and I thought in the event the name came up, we'd have the correct spelling.

Q. The cards you do have with you, can I take a look at those?

(Witness complies with request.)

Q. This is a card from Authentica. I see a Michael Theodore, who's the president.

A. Yes.

Q. Did you have direct contact with

Mr. Theodore?

A. No. Spiro Dongaris I worked with.

Q. An individual named Spiro?

A. Dongaris, D-o-n-g-a-r-i-s.

Q Spiro, S-p-i-r-o; is that correct?

A. I think it's Dongaris.

Q. He's the individual who you communicated with directly for the Tower Air abatement project?

A. Yes.

Q. Did Mr. Dongaris give opinions on whether or not asbestos-containing material should be removed from that building?

A. Yes.

Q. Did the Port Authority also take up a position on whether certain materials should be removed, certain asbestos-containing materials should be removed from that building?

A. Generally speaking, yes, they participated and if not dictated.

Q. Who from the Port Authority had that input?

A. I can't remember his name.

Q. Would it have been Michael Capasso?

A. No. Michael Capasso was resident engineer's office. There's a department that just concerned themselves with this processing

and monitoring asbestos.

Q. Was that the Asbestos Management Division?

A. Yeah.

Q. Wouldn't have been Mr. McKeever, Mr. Padiro, Mr. San Pierre?

A. No. The other name you mentioned?

Q. Dick Padiro?

A. No.

Q. Kevin Bleach, Serge Benjamin? Harry Poole, Sanyog Thorve?

A. No. Ask me another question.

Q. You don't recall who it was?

A. He was a former Pan Amer, too. I just can't think of his name.

Q. He was a former Pan Amer?

A. Yeah. It's an Italian name. Tony, Anthony.

MR. NICYPER: Off the record.

(Discussion held off the record.)

(Recess taken.)

Q. Was the individual's name we were

trying to think of Anthony Fontanetta?

A. Yeah, Anthony Fontanetta, right.

F-o-n-a-n-e-t-t-a I believe.

Q. I believe it's F-o-n-t-a-n-e-t-t-a.

What were Mr. Fontanetta's responsibilities? This is in connection with the Tower Air building; is that correct?

A. He didn't get involved in it day-to-day, inspection or field inspection, but I believe he's the head of that small group of the Port Authority at the airport.

Q. Is he the one we're talking about that gave directives on whether or not asbestos-containing materials should be removed from the building?

A. I don't know if he gave directives as opposed to the environmentalist requirement, satisfying the laws and Port Authority regulations that dictated asbestos had to be addressed as a result of a construction or alteration. But they reviewed the material. They reviewed the material that was submitted and gave that approval.

Q. However, somebody from the Port

Authority came to the site and would look at areas to be renovated and make a determination of whether it came within the regulations or

not?

A. Yes.

Q. And he was the one who did that?

A. He didn't do it on a regular basis. He would do it occasionally, but he had people on his staff or in that department that did it on a more regular basis.

Q. He previously worked for Pan Am you said?

A. Yes.

Q. What was his responsibility at Pan Am?

A. I don't recall. I think he was in the industrial engineering or shop activities.

Q. Do you know how long he worked for Pan Am prior to its bankruptcy?

A. No.

Q. In connection with construction of Building 53, you had identified TAMS as being the architect you believe, is that correct, for the expansion project in 1969, 19 --

A. Right.

Q. Do you recall an individual by the name of S. Sharma (phonetic) from TAMS being involved in that, being one of the architects?

A. Name doesn't ring a bell at all.
Q. Does the name W. Potter have any significance to you?
A. No.
Q. Walter Potter from TAMS?
A. The names you're mentioning, I would not have remembered those names without you mentioning them, and I don't know where they were in the organization, what their responsibilities were.
Q. In terms of Port Authority tenant construction review people, do you recall the name T. Kennedy?
A. The name is familiar but that's all. I don't know where, you know, he was.
Q. I think we already mentioned the name first initial T last name Finn, F-i-n-n. You don't recall much about that individual?
A. No.
Q. Do you remember a Sergeant J. Collins from the Port Authority?
A. No.

Q. Or a Mr. C.K. Brook?

A. Yes. Mr. Brook was my boss. He was the manager. At that time they used the

term "manager."

Q. Does the name first initial H last name Pittel, P-i-t-t-e-l, have any significance?

A. Say that again. Pittel?

Q. Pittel, P-i-t-t-e-l.

A. No.

Q. M. Tomasetti, T-o-m-a-s-e-t-t-i?

A. It means something to me now, but I don't know if that was the same.

Q. You know an individual with the name Tomasetti with the first initial M?

A. Just Tomasetti. He's an older gentleman who has a structural engineering firm, but I don't know back then. Could be two different people.

Q. Individual, first initial C last name Patallides, P-e-t-a-l-l-i-d-e-s?

A. Doesn't ring a bell.

Q. Let me show you a document I'd like to mark as Grill Exhibit 6. This is a four-page document dated June 20, 1986 from a

firm William Nicholas Bodouva & Associates to the Port Authority, attention Abe Friedman.

EXH (Defendant's Grill 6, letter to Abe

Friedman from Larry Goldberg dated June 10, 1986, was marked for identification.)

(Witness peruses document.)

Q. Have you had a chance to review that?

A. Yes.

Q. Do you recall this project referred to in Exhibit 6?

A. Yes, I recall this project.

Q. What was the nature of the work being undertaken as described in this document?

A. I believe it was replacement of ceiling tile and lighting, and I had mentioned before about my partial involvement in the upgrading of gates. Do you recall that, departure gates?

Q. Yes.

A. Well, I think this was part and parcel of that. And the job was completed or 90 percent, 95 percent completed when I got involved in this project. There was another gentleman that was handling this for properties

and facilities.

Q. Who was that who was handling it prior to you?

A. The name is Frank Manka.
Q. M-a-n-k-a?
A. k-a, right. And he was with Pan Am at the time.
Q. This letter is sent to Mr. Abe Friedman. Do you see that?
A. Yes.
Q. Do you recall what responsibilities Mr. Friedman had at the Port Authority?
A. He processed tenant alteration applications.
Q. This appears to be a renovation project in or about June 1986; is that correct?
A. Right.
Q. When you became involved in this project, what were you told about the project?
A. Really wasn't told anything about the project, in that the project was completed, and there were loose ends to complete the project. And Frank Manka at that time, or there about, was leaving Pan Am. I don't think he was employed. He was working as a

consultant. Okay? And that's about the extent of it.

It was something like 12 lounges,

and I think there was one to be done; one could have been completed when I got involved. And basically it was replacement of ceiling tile. The black iron and grid were being reused. It was just the ceiling tile at that point.

Q. When you say "the black iron and grid" when you talk about ceiling tile, those are often ceilings that we see as we stand in a room and look up, you can seek the tile right above you; is that correct?

A. Exactly.

Q. And then actually substantially above that is the actual structural ceiling in the room; is that correct?

A. Exactly.

Q. There's usually some space, it varies from building to building, between the ceiling tile and the actual structure of the ceiling above it; is that correct?

A. Right.

Q. What you're talking about here, then, is for that ceiling tile that we see,

that is often placed in a metal grid that hangs down from the true ceiling; is that correct?

A. Precisely.

Q. Did this project, to your recollection, involve an asbestos abatement? The project I'm referring to is what is referred to here in Grill Exhibit 6.

A. I don't recall that it did, asbestos abatement. But I think what was done was for dust control. To separate the work area with the public area, these lounges were taped off with polyethylene.

Q. This is in Building 53; is that correct?

A. Yes.

Q. Up above where the ceiling tile was, was there asbestos-containing fireproofing on the structural steel?

A. In most of the corridors -- or lounges, gate lounges, departure lounges, yes. I don't want to say specifically in this area because I don't know.

As you said before, this is a connecting corridor from the old building you described before, to the new building.

Q. But in the other one, you said there were separate gates involved in this process and lounges; is that correct; this is

one aspect of a larger project?

A. Right.

Q. In those general areas, in most instances when you say most of the lounges, those did involve or did have an asbestos-containing fireproofing above this drop tile ceiling; is that correct?

A. Right.

Q. But the work was done without having to remove the asbestos-containing fireproofing; is that correct?

A. Right, because that was 10 feet above the hung ceiling. Eight to ten, six. You could stand there and maybe not be able to touch the structural slab.

Q. So there was no need in that instance to remove the asbestos-containing material, correct?

A. Yes.

Q. This, however, this letter is responding to comments from the Port Authority; is that correct?

A. Yes.

Q. For example, if you look on page 2 of the letter, there's a comment there, if you

look at Comment 7.

Let me clarify one thing. I should have done it earlier. If you look at the last page of the letter, this identifies you as having been sent a copy; is that correct?

A. Yes.

Q. Also identifies a copy being sent to Mr. Billett, who I believe you've already discussed?

A. Right.

Q. Also identifies a Mr. first initial D last name King?

A. King, right.

Q. What were Mr. King's responsibilities?

A. I reported to Mr. King.

Q. At this point in time --

A. Yes.

Q. -- what was his title?

A. I believe it was systems director.

Q. What system did he direct?

A. The construction of new projects,

as well as building maintenance operations and was formally a pilot.

Q. Do you know for how long he had

this responsibility prior to 1986?

A. No, I don't. I believe it was in the area of maybe three, four years.

Q. Did you know for how long he had it after 1986?

A. No, can't say as I recall.

Q. Do you know when he left Pan Am, where he went?

A. Back to flying.

Q. Do you know who he currently flies with?

A. Delta.

MR. NICYPER: Off the record.

(Discussion held off the record.)

Q. Now if you would refer, please, to page 2 of Exhibit 6, again Comment 7, is it your understanding that's a comment from the Port Authority to the architects regarding this project?

A. Yes.

Q. That refers there to, states that "The contract drawings and specifications do

not adequately address the proper handling of asbestos-containing material in the event the material is prevalent in the work site."

Do you see that?

A. Yes.

Q. Then as a result asks the following, that various procedures be followed. Do you see that?

A. Yes.

Q. One is that a survey, the area be surveyed. Do you see that?

A. Yes.

Q. The next is that bulk sampling be performed. Do you see that?

A. Yes.

Q. And then the third is that if asbestos is present, to remove and dispose of the material. Do you see that?

A. Yes.

Q. These are all directives by the Port Authority; is that correct?

A. Yes.

Q. Do you recall whether Pan Am undertook each of these three activities?

A. I can't say as I do. It's not

clear to me. I can't picture that. If it happened or it didn't happen, I don't know. Or if it was required, I don't know.

Q. In any event, the Port Authority would have had somebody on site to approve what was being done; is that correct?

A. Yes, undoubtedly a plan would have had to have been submitted as to what was involved and what to do.

Q. The Port Authority would have an inspector from the resident engineer's office oversee the project or periodically monitoring the project?

A. Yes, I would suspect yes, that would have been the routine.

Q. That was the standard procedure?

A. Right.

Q. If you look on the third page, Comment 9 states, "Place Note on Drawings: The architect/engineer shall periodically inspect the construction site to insure that there is no asbestos present." Do you see that?

A. Yes.

Q. Do you recall if that was done?

A. No, I can't honestly say that it

was or was not done.

Q. You just don't know either way?

A. I don't recall, right.

Q. Do you recall at this point in time, June 1986, whether a survey had been done in the building to evaluate asbestos-containing materials?

A. I really don't remember if a survey was or was not done. In the entire building we're speaking of?

Q. Yes.

I guess, in any event, it was known that the fireproofing was asbestos-containing in the building?

A. Right, and I don't know how they came to those conclusions.

Q. You don't know what other asbestos-containing materials were in the building, do you?

A. No.

MR. NICYPER: I don't have any further questions at this time.

We have just received some documents from TOGA. I don't anticipate that would require calling you back,

taking any more of your time, but certainly I reserve our right should that be necessary, to be able to do that.

Again, I don't anticipate that being the case.

Thank you very much for coming today.

THE WITNESS: You're welcome.

MS. GRUENLOH: I don't have any questions.

(Time noted: 4:25 p.m.)

23

24

25

C E R T I F I C A T I O N O F W I T N E S S

I have read the foregoing transcript of my deposition and find it to be true and accurate to the best of my knowledge and belief.

FRANK GRILL

Sworn and subscribed to before me on this_____day of_____, 1996

Notary_____

My Commission Expires_____

23

24

25

C E R T I F I C A T E

STATE OF NEW YORK)
: ss.
COUNTY OF NEW YORK)

I, EILEEN CAMPBELL, a Shorthand Reporter and Notary Public within and for the State of New York, do hereby certify:

That FRANK GRILL, the witness whose deposition is hereinbefore set forth, was duly sworn by me and that such deposition is a true record of the testimony given by that witness.

I further certify that I am not related to any of the parties to this action by blood or marriage, and that I am in no way interested in the outcome of this matter.

EILEEN CAMPBELL

23

24

25

UNITED STATES DISTRICT COURT

SOUTHERN DISTRICT OF NEW YORK

----------x

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY (formerly known as "The Port of New York Authority") and PORT AUTHORITY TRANS-HUDSON CORPORATION,

Plaintiffs,

-against-

ALLIED CORPORATION (individually and as a subsidiary of "Allied-Signal, Inc."), et al.,

Defendants.

----------x

(Caption continues - page 2)

One Liberty Plaza
New York, New York

January 6, 1997
9:30 a.m.

EXAMINATION BEFORE TRIAL of the Plaintiff, The Port Authority of New York and New Jersey, by MARVIN KIRSHNER.

PRIORITY-ONE
Court Reporting Services
899 Manor Road

Staten Island, New York 10314
(718) 761-0527

----------x

UNITED STATES MINERAL PRODUCTS COMPANY and DALEN (formerly Isolatek Corp.),

Third-Party Plaintiffs,

-against-

TISHMAN REALTY AND CONSTRUCTION CO., INC., et ano.,

Third-Party Defendants.

----------x

One Liberty Plaza
New York, New York

January 6, 1997
9:30 a.m.

EXAMINATION BEFORE TRIAL of the Plaintiff, The Port Authority of New York and New Jersey, by MARVIN KIRSHNER.

PRIORITY-ONE
Court Reporting Services
899 Manor Road
Staten Island, New York 10314
(718) 761-0527

APPEARANCES:

NESS, MOTLEY, LOADHOLT, RICHARDSON & POOLE, ESQS.
Attorneys for Plaintiffs
151 Meeting Street, Suite 600
P.O. Box 1137
Charleston, South Carolina 29402

BY: JOHN M. CAMPBELL, ESQ.

FLEMMING, ZULACK & WILLIAMSON, LLP
Attorneys for Defendants GAF and W.R. Grace & Company - Connecticut
One Liberty Plaza
New York, New York 10006-1404

BY: LEONARD SILVERMAN, ESQ.

** ** **

INDEX 4

EXAMINATION BY	PAGE
MR. SILVERMAN	6

EXHIBITS

JFK BLDG 53 DAMAGES FOR ID	DESCRIPTION	PAGE
1	Stapled set of four drawings on 17-inch paper	8
2	Condition survey dated March of 1992	32
3	Cover memorandum authored by Kevin Bleach dated 7-19-96 attached to a computer-generated chart of asbestos abatement projects dated 7-19-96	39
4	Multi-page document entitled "Cost Estimate Building 53 - Pan Am Airlines Terminal"	56
5	Multi-page document entitled "Port Authority Environmental Engineering Asbestos Removal Cost Estimate Supplementary Table" dated 11-2-92	62
6	77-page document dated 9/92	76
7	Series of eight construction drawings presented on 17-inch paper	110

(Continued)

JFK BLDG
53 DAMAGES

FOR ID	DESCRIPTION	PAGE
8	Seven-page document dated 9-22-92 entitled "Final Product Identification Statement for Building and Products at Issue"	112
9	Multi-page document whose first page bears the heading "JFK International Airport Building No. 53 Asbestos Removal Cost Estimate, July, 1996, Prepared by Sanyog Thorve"	119
10	Multi-page document on 11-inch paper whose first page bears the Bates number PA0277574	133
11	Series of stapled construction drawings with Bates numbers PA0276842 through and including PA0276867 with an additional drawing Bates stamped PA0276903 inserted between 847 and 848	142

M A R V I N K I R S H N E R,

called as a witness, having been first duly sworn, was examined and testified as follows:

EXAMINATION BY

MR. SILVERMAN:

Q. Good morning, Mr. Kirshner.

A. Good morning.

Q. Today's deposition concerns the issue of damages alleged by plaintiffs as a result of asbestos-containing products installed at JFK Airport Building 53. Do you understand?

A. Yes.

Q. I will be asking you some questions today regarding these alleged damages. If you do not understand any of my questions, please let me know and I will gladly repeat it or rephrase it as necessary.

If you need a break at any time, just say so and we will be happy to accommodate you. Please be sure to answer all

my questions out loud in that the court reporter is unable to record bodily gestures

such as nods of the head or shrugs of the shoulders. Do you understand?

A. Yes.

Q. Please state your full name for the record.

A. Marvin Kirshner.

Q. Mr. Kirshner, what is your business address?

A. One World Trade Center, 72 East, New York, New York 10048.

Q. Is there any reason why you will not be able to provide accurate and truthful answers to my questions today?

A. No.

Q. Did you do anything to prepare yourself for today's deposition?

A. I looked over the 1996 estimate.

Q. When you say "looked over," what do you mean?

A. I reviewed it.

Q. How much time did you spend reviewing that 1996 cost estimate to prepare

yourself for today's deposition?

A. Less than one hour.

Q. Did you review it in the presence of anybody?

A. Sanyog Thorve was sitting there during this review.

Q. Was anyone else present during that review?

A. No.

Q. Did you or Mr. Thorve have substantive dialogue concerning the cost estimate?

A. No, except that the building is a very complex building as far as vertical levels, and it's difficult to see because the building is so large and so complex from the plans themselves what the relationship between the levels are.

Q. It would certainly be helpful to me, Mr. Kirshner, if we took a moment to discuss the levels of the building and to assist us in that endeavor. I will ask the court reporter to mark as JFK Building 53 Damages Exhibit 1 a stapled set of four

drawings on 17-inch paper.

(Thereupon, a stapled set of

four drawings on 17-inch paper was marked JFK Building 53 Damages Exhibit 1 for identification.)

Q. Mr. Kirshner, I show you what the court reporter has marked Damages Exhibit 1 for JFK Building 53. Have you seen this document before?

A. Either this document or documents which show similar information.

Q. I will note for the record that the four drawings are captioned the first through fourth floor, is that correct?

A. Yes.

Q. Generally speaking, in making reference to the drawings that comprise Exhibit 1, would you please describe for me the layout of JFK Building 53? In particular in your description, explain what you meant by the complex levels that exist in the building.

A. First of all, the set of drawings here unfortunately doesn't have the drawing number which is in the lower

right-hand corner of any of the drawings, but the drawings are the first, second, third and

fourth floor elevations -- plans of the building.

The first floor is below the apron area, and it's an area which is for the most part baggage handling and baggage pickup areas. It also includes a customs hold, so that is an area that is essentially below the deck, and that area is only of the pentagonal building area.

There are two buildings that comprise this set of buildings. Building 53 consists of an elliptical building and a pentagonal building attached to it, so this area which is called the first floor which is below the apron area is the area that the planes travel on and includes baggage handling, international arrival operations checking areas, custom counters.

It also includes a mens' and ladies' room and a pilots' lounge and some storage areas. The building is arrived at from the inside and outside. The baggage is

brought in from ramps which are on the north side of the pentagonal area.

Q. And all that you have spoken of just now was in reference to the first of the four drawings?

A. Only the first of the four drawings, and someone has marked the drawing in the left-hand portion as the first floor. Also on this first drawing is a cross-sectional area which shows the other floors.

The second floor is the floor that is at the same level as the apron deck and includes baggage handling, operational areas and mechanical room, kitchen areas, some local maintenance offices and service areas.

It also includes some crew areas, and I'm leaving out the eliptical building area, which is on the first level. They have some baggage handling and mechanical rooms. All of that is on the second floor.

Q. Does the eliptical portion of JFK Building 53 have a below-the-apron level?

A. No.

Q. Is the portion of Building 53 diagrammed on the second of the four drawings

of Exhibit 1, in essence, the ground level of the building?

A. Yes.

Q. I was thrown somewhat by the misnomer "second floor."

A. Yes.

Q. But it really is the ground level?

A. It's the ground level.

Q. Turning now to the third of the four drawings that comprise Exhibit 1, what can you tell me about the complexities of the building?

A. The third floor is marked as the -- the drawing is marked as third floor. The eliptical area is the check-in counter and meeter/greeter area. The building itself on this floor contains gates, passenger services, aisles to the gates, mens' and ladies' rooms, a couple of first class lounges, sales offices, miscellaneous passenger services for the arriving and departing passengers.

Q. Generally speaking, Mr. Kirshner, do passengers embark and debark from

aircraft through gates located in both the eliptical portion of Building 53 and the pentagonal portion of Building 53?

A. Generally speaking, yes, but the cost of the configuration and constraints of the site on which this building is located -- only smaller planes can reach the gates that serve the eliptical building. The larger planes can dock at the third floor for the pentagonal building.

Q. Finally, there is what is referred to in the last drawing as the fourth floor, is that correct?

A. Yes.

Q. This actually is a level of Building 53 that sits three floors above the tarmac level, is that correct?

A. Yes.

Q. What is reflected in the last of the four drawings on Exhibit 1?

A. In the eliptical building, the top floor is the cocktail lounge, kitchens and

services of that nature, and part of it only.

In the pentagonal building a smaller portion

of the whole area is covered by offices which are noted as passenger service offices and other offices of that type and a central mechanical equipment room.

The balance of the roof and the larger portion of the pentagonal building, the entire portion on the south of the building is a parking deck. At the far southeast area is an observation deck.

Q. Generally speaking, are there any other noteworthy points about JFK Building 53 that are reflected in the drawings of Exhibit 1 that you would like now to bring to my attention?

MR. CAMPBELL: Object to the form of the question.

A. (No response)

Q. You may answer the question.

A. No.

Q. When did you and Mr. Thorve confer regarding the 1996 cost estimate?

A. I don't recall the exact date.

It was sometime last year, October, perhaps.

We also talked last week for one hour. We

also talked when we prepared the estimate and submittal before then.

Q. Did you review with him last week during your meeting the particular fireproofing work areas that he designated in the 1996 cost estimate?

A. Yes.

Q. You spent time reviewing the drawings that accompanied the 1996 cost estimate?

A. Yes.

Q. During last week's meeting with Mr. Thorve, did you raise any concerns or issues with him regarding any aspect of the 1996 cost estimate?

A. No.

Q. In reviewing that cost estimate for today's deposition, was there anything that made you uncomfortable?

A. No.

Q. Other than reviewing that 1996 cost estimate, was there any other document

that you reviewed to prepare yourself for today's deposition?

A. No.

Q. Other than meeting with Mr. Thorve, did you speak with anyone else at the Port Authority regarding today's deposition?

A. With my attorney as to where we were going to meet, and we decided to meet here.

Q. Your attorney today is Mr. John Campbell?

A. Yes.

Q. Other than coordinating a meeting place for this morning's deposition, did you confer with Mr. Campbell regarding some questions that I might ask you today?

A. No.

Q. Did you consult with Mr. Campbell as to what your answers might be to questions I might put to you today?

A. No.

Q. Did you bring with you today any documents regarding JFK Building 53?

A. No.

Q. Does JFK Building 53 have a name other than JFK Building 53?

A. When Pan Am operated the building, it used to be called World Port.

Q. Did Pan Am relinquish its interest in Building 53 when it filed for bankruptcy protection?

A. No.

Q. Does Pan Am today retain an interest in Building 53?

A. No.

Q. When did Pan Am relinquish its interest in Building 53?

A. It did not. Pan Am made an agreement directly with Delta, and Delta took over the building directly from Pan Am with all of the benefits and obligations that go with it.

Q. Did Pan Am assign a lease that it had with the Port Authority directly to Delta?

A. Yes.

Q. When did that assignment transpire?

A. I don't recall.

Q. Approximately when?

A. Eight years ago, nine years ago.

Q. Certainly not more than 10 years ago, is that correct?

A. I'm not certain. It could have been.

Q. It might have been 15 years ago?

A. I was not with the Port Authority 15 years ago, so I wouldn't know. I know when I joined the Port Authority in 1986 Pan Am had either departed from the facility or was in the process of doing so, so it was around that year.

Q. Is Building 53 owned by the Port Authority?

A. Yes, in the sense that we own the building unless we have to give the building and the property back to the City of New York.

Q. Pursuant to an assignment that took place between Pan Am and Delta, does the Port Authority today lease Building 53 to Delta Airlines?

A. I don't know the details of the lease arrangement. It was my understanding

that the agreement was between Pan Am and Delta with the approval of the Port Authority.

Q. Does the Port Authority today lease Building 53 to Delta?

A. Yes.

Q. Does the Port Authority lease a portion of Building 53 to an entity other than Delta?

A. Not that I know of.

Q. Does Delta, in turn, sublease portions of Building 53 to third parties?

A. I don't know.

Q. When does the lease between the Port Authority and Delta expire?

A. I don't know.

Q. Does that lease agreement contain a provision regarding who is responsible for repairs, maintenance and renovations at Building 53?

A. I don't know.

Q. Does that lease agreement contain a provision regarding who is

responsible for any costs associated with asbestos abatements or asbestos operations and

maintenance plans?

A. I don't know.

Q. Who is responsible for costs associated with asbestos abatements at JFK Building 53?

A. It's my understanding that when any renovations are performed in Building 53 that Delta does the asbestos abatement as a part of the renovations.

Q. Does Delta seek reimbursement from the Port Authority for any costs associated with asbestos abatement work at Building 53?

A. I don't know.

Q. Who is responsible for costs associated with asbestos operations generally and in particular operations and maintenance plans at Building 53?

A. I don't know the full answer to that.

Q. Do you believe that it is Delta?

A. I believe for most operations it

is Delta. The Port Authority may have some responsibilities.

Q. Who at the Port Authority is most knowledgeable today regarding the present leasing arrangements in effect for Building 53?

A. Linda Moses.

Q. Does the Port Authority own the land upon which JFK Building 53 sits?

A. No.

Q. Who does own that land?

A. New York City.

Q. Is there a lease running from New York City to the Port Authority for the land upon which Building 53 sits?

A. Yes.

Q. When is that lease due to expire?

A. It's my understanding that the expiration date is the year 2015.

Q. What will happen when the lease expires in 2015?

A. I don't know.

Q. Will the land revert back to the

City of New York unless the City of New York extends its lease with the Port Authority or

enters into a new lease with the Port Authority for the land?

A. Yes.

Q. If that scenario should come to pass, namely a reversion of the interest in the land back to the City of New York, will the City of New York at that point own Building 53 as well?

A. Yes.

Q. Does Building 53 serve any purpose other than a passenger terminal?

A. To the best of my knowledge, no.

Q. For instance, it doesn't serve as a clearing station for cargo, is that correct?

A. Right.

Q. Does Building 53 in its entirety, namely the eliptical portion as well as the pentagonal portion, have approximately 700,000 square feet?

A. I thought it was larger than that.

Q. How many square feet do you believe Building 53 has?

A. I thought the pentagonal portion itself had about 750,000 square feet, and the eliptical portion -- that's additional footage.

Q. How much additional square footage does the eliptical portion of Building 53 have?

A. I don't recall.

Q. Do you have an understanding in terms of a ballpark figure?

A. Well, just based upon the area it must be another 200,000 or so.

Q. But it might be more than that, is that correct?

A. Right.

Q. Have you visited Building 53 during your tenure as a Port Authority employee for work-related purposes?

A. Yes.

Q. How often?

A. Several times.

Q. More than five?

A. It depends on whether you are going to relate the work-related purposes to

the asbestos area, or is it going to include other areas?

Q. What other areas might it include?

A. Constraints on doing work outside for the Building 53 operations and adjacent building operations and other things that relate to other work that my group does.

Q. Other work not having asbestos?

A. Right.

Q. Approximately how many times have you visited Building 53 during your tenure as a Port Authority employee for work-related purposes regarding asbestos and asbestos issues?

A. Two or three times.

Q. When?

A. One detailed visit back when we submitted the 1991 estimate and a couple of other times that were related to smaller programs and asbestos. The mechanical rooms were the key.

Q. I don't understand what you meant when you said, "The mechanical rooms

were the key."

A. The Port Authority in conjunction with outside parties has installed a cogeneration system at the airport where hot water is supplied to the terminals by someone who is an outside operator located in the airport, and in conjunction with that program we had to bring new hot water lines to all of these mechanical rooms. As part of that program, I visited those mechanical rooms.

Q. Did the visits to those mechanical rooms have any bearing on asbestos and asbestos issues?

A. Yes, they did.

Q. Why?

A. Because part of the asbestos had to be removed as part of this installation.

Q. You didn't personally prepare the 1991 cost estimate for Building 53, is that correct?

A. Right.

Q. Mr. Charles Kondakjian did?

A. Yes.

Q. Nevertheless, you visited

Building 53 in connection with the preparation of that earlier cost estimate, is that correct?

A. In connection with the review of it before it was finally approved.

Q. Did Mr. Kondakjian accompany you during that visit?

A. Yes.

Q. I believe you mentioned that that was a lengthy visit, is that correct?

A. It was an entire day, yes.

Q. What did you do during that visit?

A. To the areas that we had access to, we took a look at the asbestos. At the time, because we didn't have access to the Pan American Airlines records and drawings, we were just trying to get a feel as to the building itself and the building areas.

Q. At the point in time that you and Mr. Kondakjian visited Building 53 together, the cost estimate had already been

prepared, is that correct?

A. Yes.

Q. Did you and Mr. Kondakjian encounter any difficulty in accessing for purposes of visual inspection the fireproofing in Building 53 during that inspection?

A. As I recall, we did.

Q. Where?

A. I don't recall where.

Q. Did you have difficulty in visually observing most of the fireproofing during that inspection?

A. We didn't try to see all of the fireproofing. What we tried to see was the typical fireproofing that would relate to beams in the ceiling, the mechanical rooms and other key areas. We had some difficulty in seeing it. The mechanical rooms, as I recall, were accessible and we were able to go through those, but there were some areas that we could not get into.

Q. My understanding is that accessibility difficulties can take the form of a locked door, and it can also take the

form of a particular type of ceiling that does not permit inspection of the fireproofing

above it. With that in mind, Mr. Kirshner, what type of difficulties did you and Mr. Kondakjian experience when you visited Building 53 together?

A. I don't recall.

Q. Did you make any observations during that inspection of the fireproofing in Building 53?

A. I'm certain I did, but I don't recall what they were.

Q. Did you take any notes?

A. No.

Q. Did Mr. Kondakjian take any notes?

A. I don't recall.

Q. Did either you or Mr. Kondakjian take any photographs?

A. Not during that visit.

Q. Did either you or Mr. Kondakjian take any measurements?

A. We would usually pace areas out to determine if the size was as we had thought

it was, but I don't specifically recall taking measurements.

Q. Did you make it a practice to accompany Mr. Kondakjian on an inspection of each of the buildings for which he had prepared a cost estimate?

A. Some of the buildings. Not all.

Q. Why did you accompany Mr. Kondakjian on an inspection of Building 53 when it was not your practice to inspect each of the buildings for which a Kondakjian cost estimate was prepared?

A. I did so because the estimated cost of abating the asbestos in the building was high.

Q. When you say "high," do you mean that because the building was so vast that the price tag was quite high, or do you mean that Mr. Kondakjian's estimate struck you as being uncomfortably high in the context of a cost estimate prepared for litigation purposes?

A. The former is true.

Q. Following the inspection of Building 53 undertaken in Mr. Kondakjian's

company, did you direct him to revise or amend or change in any way his cost

estimate?

A. I don't recall.

Q. Do you recall harboring any concerns about the cost estimate that he had prepared after your inspection of Building 53?

A. No, I don't.

Q. Do you recall articulating to Mr. Kondakjian any such concerns?

A. No.

Q. Were you inspecting asbestos-containing materials other than fireproofing during that inspection?

A. Yes.

Q. What other materials were you inspecting?

A. Pipe insulation, VAT. I don't recall what else.

Q. Generally, where do you recall the fireproofing in Building 53?

A. On the beams that supported the various floors and overspray and mostly in the pentagonal building.

Q. Why mostly in the pentagonal portion of Building 53?

A. The eliptical building is a post-tension concrete deck that was not constructed with steel beams.

Q. It has no steel superstructure?

A. There may be some steel superstructure for areas below the roof area, but there is no main superstructure. The superstructure itself is that eliptical deck and roof and it's concrete.

Q. Were you able at that time to ascertain whether or not the fireproofing that was noted by you as "overspray" was intentionally applied to adjacent decking or unintentionally applied?

A. I don't recall.

Q. Did you make any observations at the time about the general condition of the fireproofing in Building 53?

A. I'm certain I did, but I don't recall what they were.

Q. Do you recall any portions of Building 53 where fireproofing was damaged in

some way?

A. There may have -- there may have

been some water damaged areas, but they were minor.

Q. Did you make any observations at that inspection regarding the general condition and state of repairs of Building 53?

A. No.

Q. Did you observe any roof damage?

A. We assumed that the water damage that we saw was because of some roof damage, but we did not observe the roof. We did not go up to the roof.

Q. Did you observe other portions of Building 53 that had been damaged by water other than the fireproofing?

A. I don't recall.

Q. I will now ask the reporter to mark as JFK Building 53 Damages Exhibit 2 a March of 1992 condition survey.

(Thereupon, a condition survey dated March of 1992 was marked JFK Building 53 Damages Exhibit 2 for identification.)

Q. Mr. Kirshner, I show you what

has been marked as Exhibit 2. Have you seen this document before?

A. I don't recall seeing it.

Q. What is it?

A. It's a condition survey performed by a consultant for the Port Authority of Building 53.

Q. Why was such a condition survey commissioned by the Port Authority?

A. At the time in 1990, 1991, 1992, we were finalizing our determination of what action we might be taking against the Pan Am trustees, Pan Am in bankruptcy, and this would be part of that where we were trying to determine the condition of the building which had been occupied since it was built by Pan Am until sometime before 1992.

Q. Do you know whether or not this document attempted to assess the condition of fireproofing in Building 53?

A. (No response)

Q. Offhand.

A. Well, as I'm going through this I see the word "fireproofing," one little

item, but I don't think this was a major factor here. This was mainly to look at the

structural systems, the structure and the operational, mechanical and electrical systems.

Q. On the top of all of the interior pages in the middle are internal page numbers 2 through 16. Please turn to page 2 of Exhibit 2. In the bottom half of the page, Item No. 1 for the roof location says "Replace the roofing, flashing and roof drains over the entire UTB." Do you see that?

A. Yes.

Q. Have I read that correctly?

A. Yes.

Q. What is a UTB?

A. I don't know.

Q. Have you ever heard that acronym used in connection with Building 53?

A. No.

Q. Was there a problem with the roof at the UTB portion of Building 53 such that a recommendation was made to replace roofing, flashing and roof drains?

A. I don't know.

Q. Please turn to the very bottom

of page 5. Do you see that the third item in the mezzanine and club level structure reads "Replace the missing and damaged fireproofing at the exterior columns of the mechanical and office area." Do you see that?

A. Yes.

Q. Can you tell me anything about that?

A. No. I don't know anything about that.

Q. Please turn to the middle of page 7. Do you see that the ninth recommendation for the departure and concourse portion of the UTBE reads "Replace the spray fireproofing as required." Do you see that?

A. Yes.

Q. Can you tell me anything about that?

A. No.

Q. Can you tell me what the UTBE is?

A. No.

Q. Please turn to the bottom of page 8. Do you see that? The fifth

recommendation for the mechanical and apron areas of the UTBE is "Repair all the sprayed-on fireproofing and minor corrosion on steel beams." Do you see that?

A. Yes.

Q. Can you tell me anything about that?

A. No.

Q. Please turn to the very top of page 10. The fifth recommendation for the east and west customs area of the UTBE is to "Remove all rust and repaint and repair the spray-on fireproofing at girders on each side of leaking expansion joints from..." Do you see that?

A. Yes.

Q. Can you tell me anything about that?

A. No.

Q. Please turn to the lower half of page 12. The fifth recommendation for the operations and travel service areas of the

UTBE reads "Replace all the missing fireproofing of the steel beams along the

inside face of the exterior walls below the expansion joints." Do you see that?

A. Yes.

Q. Can you tell me anything about that?

A. No.

Q. Who is the person at the Port Authority today most knowledgeable regarding the location, quantity and type of asbestos-containing products in Building 53?

A. Sanyog Thorve.

Q. He prepared the 1996 cost estimate, is that correct?

A. Yes.

Q. Who else at the Port Authority is knowledgeable?

A. Anthony Fontanetta.

Q. Who is Anthony Fontanetta?

A. He is one of the persons in the resident engineer's office at the facility who was involved in asbestos sampling and monitoring.

Q. He is stationed at JFK Airport?

A. Yes.

Q. Is he stationed physically at Building 53?

A. No.

Q. Where is he located?

A. Building 14.

Q. What is his formal title?

A. I don't know.

Q. Who is the current custodian or other person responsible for maintenance generally at Building 53?

A. I don't know.

Q. You joined the Port Authority in 1986, correct?

A. Yes.

Q. Have you at any time in the last 10 years known who is responsible for maintenance at Building 53?

A. No.

Q. Has any asbestos-containing fireproofing ever been removed from Building 53?

A. Yes.

Q. Has any asbestos-containing fireproofing been removed from Building 53 for

which plaintiffs seek cost recovery as part of this litigation?

A. I don't know.

Q. I will show you what I will ask the court reporter to mark as JFK Building 53 Damages Exhibit 3.

MR. CAMPBELL: Could we take a five-minute break?

MR. SILVERMAN: Certainly. Let me just finish identifying the document. While the court reporter is marking it we can take a break. The document has a cover page memorandum authored by Kevin Bleach dated July 19, 1996 attached to a computer-generated chart of asbestos abatement projects dated July 19, 1996.

(Thereupon, a cover memorandum authored by Kevin Bleach dated July 19, 1996 attached to a computer-generated chart of asbestos abatement projects dated July 19, 1996 was marked JFK Building 53 Damages Exhibit 3 for identification.)

(Recess taken)

Q. Mr. Kirshner, let me show you

what has been marked as Exhibit 3. Have you seen this document before?

A. Partly.

Q. What part?

A. I have not seen the first page, but I have seen the other pages without the note on top of the page which has a number on the bottom of 349.

Q. You haven't seen the Bleach memorandum to the file, is that correct?

A. Right.

Q. But you have seen the attached computer-generated chart of asbestos abatement projects sans the handwriting on the first page of that chart on the upper right-hand corner?

A. Right.

Q. Is this chart of asbestos abatement projects the most current version of the chart?

A. (No response)

Q. I note it is dated July 19,

1996.

A. I don't recall anything that was

more recent. I would say yes.

Q. Is any of the asbestos-containing fireproofing reflected in the asbestos abatement projects part of plaintiffs' cost recovery efforts?

A. I don't know.

Q. Who would know?

A. Ezra Bialik.

Q. Directing your attention for the moment to the first page of Exhibit 3, is it your understanding that Mr. Bleach's adjustments to the cost estimate for Building 53 are the most up-to-date cost estimate data for the subject building?

A. They were up-to-date as of 7-19-96, the date of the memorandum. There may have been some work done since that time.

Q. This memorandum was prepared by Mr. Bleach subsequent to Mr. Thorve's preparing the 1996 cost estimate, is that correct?

A. Yes.

Q. And the adjustment arithmetic that is reflected on the first page of Exhibit

3 is an adjustment to the calculations of Sanyog Thorve, is that correct?

A. Yes.

Q. Have there been any renovations at Building 53 that may have impacted on the location of asbestos-containing fireproofing?

A. Yes.

Q. What renovations?

A. As noted in Exhibit 3, there are many renovations which included the removal of some fireproofing. There is a column, the sixth column from the left, which is a product column and there are many items under that column noted as "FP," fireproofing.

Q. I will note for the record as well that the right-most column whose heading is "Reason" makes frequent reference to renovations as the reason for a particular abatement, is that correct?

A. Yes.

Q. Have you ever directed anyone to investigate whether any fireproofing not

reflected on the chart in Exhibit 3 has been removed from Building 53?

A. Yes.

Q. Who?

A. Sanyog Thorve.

Q. Did he, in fact, conclude an investigation?

A. He looked into the full list of all of the asbestos removal jobs performed by the Port Authority or by tenants that we have a record of, and he concluded that there were many, many projects in which small amounts of fireproofing have been done -- have been removed in Building 53.

We therefore made the decision to perform our removal estimate for the asbestos in Building 53 on the basis of no jobs being performed and remove all of the asbestos as if all of the fireproofing were asbestos, and then make a subtraction based on a square footage basis an average price basis of all of the fireproofing that has already been removed.

Q. Is it true, then, that none of

24 the fireproofing reflected on the

25 computer-generated chart in Exhibit 3 is part

of plaintiffs' cost recovery effort in connection with this litigation, correct?

A. I don't know.

Q. Well, if Mr. Thorve in preparing the 1996 cost estimate removed from consideration quantities of fireproofing square footage that had already been abated and the chart in Exhibit 3 is a comprehensive chart of abatement activity in Building 53, then doesn't it necessarily follow that the fireproofing quantities reflected on the chart in Exhibit 3 have been excluded from the Port Authority's present cost recovery effort as part of this litigation?

MR. CAMPBELL: Objection.

A. I still don't know, because I was not -- I'm not a part of that program to decide what will be a part of this litigation and what will not be. I do know that when we prepared our estimate in 1996 we decided that since there were so many areas of fireproofing that had already been abated that it was much

more reasonable and conservative for us to remove the fireproofing in the large areas

that we did use and then subtract all of the already abated fireproofing in one lump sum at the average unit price.

Q. Is it possible that there was abatement activity in Building 53 that is not reflected on the chart in Exhibit 3?

A. Yes.

Q. Are you aware of any actual instances where abatement of asbestos-containing fireproofing has transpired in Building 53 that is not reflected on chart of abatement projects?

A. No.

Q. It is possible for a tenant, in this case Delta, to remove fireproofing without the Port Authority's knowledge, correct?

A. It would be difficult to do, but it's possible.

Q. Similarly, it was possible for Pan Am, the former tenant, to have removed asbestos-containing fireproofing without the

Port Authority's knowledge, is that correct?

A. Yes.

Q. Do you today have any work related responsibilities regarding the damages claimed by plaintiffs resulting from asbestos-containing fireproofing in Building 53?

A. Yes.

Q. What responsibilities do you presently shoulder as they relate to asbestos fireproofing in Building 53?

A. The cost estimates used for this litigation are prepared under my supervision.

Q. Do you also supervise all asbestos abatement programs for Building 53?

A. No.

Q. Do you design actual abatements for Building 53?

A. No.

Q. That is, however, a responsibility that you do shoulder with respect to some other buildings at issue in this litigation, correct?

A. Yes.

Q. Why don't you play a role in the designing of the asbestos abatement projects

for Building 53 like you do for some of the other buildings at issue?

A. With the exception of the cogeneration project which impacted the mechanical equipment rooms at Building 53, all of the other asbestos abatement projects have been performed by the tenants usually as part of a renovation.

Q. With the exception of the work performed in the M.E.R. rooms, it is the tenant that has paid for abatement projects in Building 53, correct?

A. To the best of my knowledge, yes.

Q. Do you have any responsibility for reviewing tenant alteration applications as they relate to asbestos issues in Building 53?

A. Yes.

Q. Other than overseeing the preparation of future cost estimates for Building 53 and reviewing all tenant

alteration applications relating to asbestos,

do you have any other responsibilities for

Building 53 as it pertains to asbestos and asbestos issues?

A. No.

Q. When did you first begin to shoulder the responsibilities that you have vis a vis the asbestos in Building 53?

A. When I joined the Port Authority in 1986.

Q. At that time did you receive any instructions from anyone at the Port Authority with respect to the preparation of future cost estimates?

A. No.

Q. Did you at a point subsequent to your joining the Port Authority in 1986 receive some instructions?

A. Yes.

Q. When?

A. Sometime around the end of 1990 or beginning -- perhaps sometime in 1990 was the first time.

Q. By whom were these instructions

received?

A. The instructions were given to

me.

Q. Who issued them?

A. Milton Pachter.

Q. What were they?

A. To do a conservative estimate of the -- of a large number of buildings that are operated by the Port Authority of the asbestos removal from those buildings and do that estimate within a relatively tight time frame.

Q. Were you issued a series of guidelines or directions to enable you to prepare them future cost estimates?

A. We were issued some suggestions and some directions as to what the -- what Milton Pachter was looking for.

Q. What were those instructions?

A. That we could perform a conservative estimate. That is, where there is an option to do things in two fashions, always pick the least expensive way of the -- the lease expensive estimate. It was to take a look at all of the work that had been done

already and subtract it from our estimates, so that it would not include asbestos abatement

that had been already performed. It was to select reasonably large work areas while maintaining operation of the facilities.

Q. Were you instructed to prepare a future cost estimate with a particular abatement option in mind?

A. Yes.

Q. Which abatement option was that?

A. Asbestos removal.

Q. When you use the phrase "asbestos removal," do you mean complete removal?

A. Yes.

Q. With regard to sprayed-on fireproofing, however, there are alternative abatement options, is that correct?

A. Yes.

Q. I am aware of a few such as encapsulation or enclosure or even permitting the material to remain in place and adopting operations and maintenance plans. Those are all viable abatement options for fireproofing,

is that correct?

MR. CAMPBELL: Object to the

form.

A. Those are all options. I'm not certain how viable they are.

Q. They can all be used to abate fireproofing material, correct?

MR. CAMPBELL: Object to the form.

A. They can often be used except that the O&M is really not an abatement option.

Q. Why weren't they used in this instance?

A. Since the asbestos would eventually have to be removed and since any other option whether encapsulation or encasement would still require O&M procedures to continue throughout the life of the structure, for this estimate we decided it would probably be the lowest cost to remove the asbestos up front in the estimate and assume that the asbestos would be removed all at once.

Q. Was the Port Authority's thinking on that subject that in the long run,

the least expensive abatement option would prove to be complete removal?

A. Yes.

Q. Generally speaking, in the short run is complete removal a more expensive or less expensive abatement option than, say, encapsulation?

A. Complete removal would be more expensive than encapsulation if encapsulation was suitable.

Q. Did you periodically receive supplemental instructions or clarifications from Mr. Pachter as they related to your efforts to prepare future cost estimates for the buildings at issue in this litigation?

A. No.

Q. Did anyone at the Port Authority issue you supplemental instructions or clarifications regarding the preparation of future cost estimates?

A. Yes.

Q. Who?

A. Ezra Bialik.

Q. When?

A. At various times. The decisions were made on the timing of estimates that had to be made and which buildings would be estimated and also which areas had identified asbestos products to be estimated.

Q. Have you ever personally prepared a cost estimate for any of the buildings at issue?

A. (No response)

Q. Or alternatively, have you supervised others in the preparation of these cost estimates?

A. Both.

Q. For which buildings at issue in this litigation have you personally prepared a future cost estimate?

A. Howland Hook Tower.

Q. That's the control tower?

A. The building that's in the litigation, the five-story abandoned building.

Q. Any other facilities?

A. I have done some for the World

Trade Center.

Q. Any others?

A. Then I ran checks on work that has been done by others, those checks usually being some of the areas and then the total building.

Q. Does Sanyog Thorve report directly to you in the Port Authority's chain of command?

A. Yes.

Q. Does Gilbert Gedeon likewise report directly to you?

A. Yes.

Q. Does Jorge Reis?

A. Yes.

Q. Does Mr. Leonard Vernon?

A. Yes.

Q. Does Mr. Gerald Jean-Pierre?

A. Yes.

Q. Does anyone else at the Port Authority who prepared cost estimates for use in this litigation report to you?

A. No.

Q. Has the Port Authority ever

contracted with an outside entity to perform an assessment or an analysis to determine the

location of and quantity of asbestos-containing materials in Building 53?

A. Yes.

Q. How many such assessments or analyses have been performed by outside entities at the behest of the Port Authority?

A. Either one or two. I'm not certain.

Q. Who were these outside entities?

A. Hall-Kimbrell did a study of the asbestos at JFK in the 1988, 1989 period and -- I can't recall their name. Another engineering firm did other work at JFK, which I'm not sure included this building.

Q. Might that other engineering firm be known as Storch Engineers?

A. Yes.

Q. Is that, in fact, the engineering firm that you had in mind?

A. Yes.

Q. When did Storch Engineers perform their assessment?

A. 1989, 1990.

Q. As compared to the cost

estimates prepared by the Port Authority for Building 53, do you have an opinion as to the accuracy of these earlier assessments?

A. Hall-Kimbrell's assessment in addition to doing sampling of material and testing of those samples for asbestos did an evaluation as to the condition of the asbestos-containing materials and also did a very broad cost estimate of the buildings that they had sampled. Storch did not do a cost estimate of the buildings that they sampled and analyzed.

Q. I will ask the court reporter to mark as JFK Building 53 Damages Exhibit 4 a multi-page document whose first page has the heading "Cost Estimate Building 53 - Pan Am Airlines Terminal."

(Thereupon, a multi-page document entitled "Cost Estimate Building 53 - Pan Am Airlines Terminal" was marked JFK Building 53 Damages Exhibit 4 for identification.)

Q. Mr. Kirshner, I show you what has been marked as Exhibit 4. Have you seen

this document before?

A. I think I recall the document.

Q. What is it?

A. It's a portion of the work done by Hall-Kimbrell, and it includes a series of samples that they took and the analysis of those samples and various areas of Building 53 and also includes an evaluation of the removal of the asbestos, cost of that removal. Removal costs are based on four different levels of priority with priority 1 being top priority.

MR. SILVERMAN: Let's take a five-minute break.

(Recess taken)

Q. Mr. Kirshner, during this most recent intermission I took the liberty of adding up the total square footage of fireproofing as per the Hall-Kimbrell report marked today as Exhibit 4 for Building 53. I determined that Hall-Kimbrell's assessment performed in the late '80s determined there to

be 941,044 square feet of asbestos-containing fireproofing in JFK Building 53.

MR. CAMPBELL: What's that based on?

MR. SILVERMAN: Beginning with the page of Exhibit 4 that is Bates stamped in the lower right-hand corner with the numbers ending 336D and running through the page of Exhibit 4 whose Bates number ends in the digits 372D.

Q. There are 69 separate work areas designated by Hall-Kimbrell. Each of the work areas provide square footage figures of quantity of material in that work area and also provide in a column headed "Removal Costs" an indication as to how much money they expect it to cost to remove the fireproofing in that work area, is that correct, Mr. Kirshner?

A. Yes.

Q. What I simply did was add up the square footage figures provided for each of the fireproofing work areas, and I arrived at my figure of 941,044 square feet, and I also

then took it upon myself to add up the removal costs as calculated by Hall-Kimbrell to remove

the fireproofing material from Building 53 and I arrived at $33,843,641 out of a total removal cost of $34,840,106, that latter figure appearing as a building total removal cost on the page of Exhibit 4 whose Bates numbering ends in the digits 372D.

Mr. Kirshner, allowing for any mechanical errors on my part in operating a hand-held calculator, are there any flaws in my methodology?

A. No, except that you have to account for the few fireproofing areas that were negative. That is, to not have asbestos. There are just very few of those.

Q. Correct, and for those areas I should not have included the square footage figures in my calculations in light of the fact that there is $0 for removal costs in those instances, is that correct?

A. Yes.

Q. I may have erred in including the negative fireproofing areas for which no

removal costs were determined. I observe that there is only one work area, namely Work Area

61, in which a quantity of fireproofing is given while the removal cost is assessed at zero, is that correct?

A. I don't know if that's the only one, but the overall numbers sound reasonable to me.

Q. I just reviewed the Hall-Kimbrell report, and I believe that, in fact, Work Area 61 is the only work area where there was negative fireproofing, and so I will revise my --

A. But 61 is zero cost.

Q. Correct, and I had erroneously included the square footage in my quantity, so I will revise my figure.

A. Okay.

Q. The total quantity of spray-on asbestos-containing fireproofing as determined by Hall-Kimbrell in their assessment performed in the late '80s is 939,644 square feet. Does that sound right to you, Mr. Kirshner?

A. I don't know, but it's in the

right order of magnitude.

Q. We had seen, again, based on my

calculations that roughly $33.8 million was determined by Hall-Kimbrell to be the cost of removing that asbestos-containing fireproofing, is that correct?

A. Without replacement or...

Q. Without replacement. Is that correct?

A. Yes.

Q. You mentioned that Storch Engineers performed another assessment?

A. I said they may have. I didn't recall on this building if there were two or just one.

Q. We had seen in analyzing the 1991 cost estimates for other buildings at issue in this litigation that the Storch Engineers field data sheets were often attached as an appendix to those earlier cost estimates, correct?

A. Yes.

Q. At this time I am going to ask the court reporter to mark as JFK Building 53

Damages Exhibit 5 a large document whose first page bears the heading "Port Authority

Environmental Engineering Asbestos Removal Cost Estimate Supplementary Table" dated November 2, 1992.

(Thereupon, a multi-page document entitled "Port Authority Environmental Engineering Asbestos Removal Cost Estimate Supplementary Table" dated November 2, 1992 was marked JFK Building 53 Damages Exhibit 5 for identification.)

Q. Mr. Kirshner, showing you what the court reporter has marked as Exhibit 5 --

A. Yes.

Q. -- have you seen this document before?

A. I think so.

Q. What is it?

A. We performed the 1991 cost estimate and I reviewed it.

Q. Is this the 1991 cost estimate?

A. The date on the lead sheets of November 2, 1992 is simply the date that this program was run, and if someone asked you for

a copy using the same program for the same estimate right now, it would have the current

date on the estimate.

All of the estimates that were prepared in 1991 and 1992 were based on the second half of 1991 productivity factors and labor rates, and therefore I always refer to these as the 1991 estimates.

Q. Subsequent to this document's preparation, Mr. Thorve undertook to prepare the 1996 cost estimate for Building 53, is that correct?

A. Yes.

Q. Other than these two cost estimates, the one that we now have before us marked as Exhibit 5 which is dated November 2 of 1992 and the Thorve cost estimate, has the Port Authority ever created any other cost estimates with an eye toward the complete removal of asbestos materials from Building 53?

A. No.

Q. Is it the Port Authority's present intention to prepare a more current

cost estimate than the Thorve 1996 cost estimate --

A. No.

Q. -- for Building 53?

A. No.

Q. Was the purpose of preparing both the 1992 cost estimate and the 1996 cost estimate exclusively litigation driven?

A. Yes.

Q. In other words, there is no plan presently to demolish Building 53, correct?

A. Yes.

Q. There is no plan to remove all of the asbestos materials from Building 53, correct?

A. Yes.

Q. You had said earlier that Mr. Charles Kondakjian prepared the 1992 cost estimate, correct?

A. Yes.

Q. Was he assisted in that endeavor by anyone else at the Port Authority?

A. No.

Q. Did you participate in preparing

Exhibit 5?

A. I reviewed it before it was

submitted.

Q. And it was in connection with that review effort that you accompanied Mr. Kondakjian to Building 53 for an all-day inspection, correct?

A. Yes.

Q. Notwithstanding the date stamp November 2 of 1992 on the top of all the internal pages of Exhibit 5, it is your understanding, Mr. Kirshner, that this document was prepared sometime in late 1991?

A. That the original estimate was prepared sometime in late 1991 or early 1992.

Q. Did this earlier cost estimate undergo revisions and drafts?

A. Not that I know of.

Q. Were you shown any version of the 1991 or 1992 cost estimate for Building 53 that caused you to instruct Mr. Kondakjian to make changes to the report?

A. Not that I recall.

Q. Did Milton Pachter request that

Exhibit 5 be prepared?

A. Yes.

Q. Other than the general instructions concerning the preparation of all litigation cost estimates that we have spoken of earlier this morning, did you receive any instructions or guidelines unique to the preparation of the Building 53 future cost estimate?

A. No.

Q. Focusing your attention to the bottom of the first page of Exhibit 5, did Mr. Kondakjian estimate there to be 1,265,969 square feet of asbestos-containing fireproofing in Building 53?

A. Yes.

Q. Did he conclude that it would cost $41,228,116 to completely remove that fireproofing from Building 53?

A. Yes, and that cost also includes the refireproofing and all of the other -- all of the asbestos was removed for that cost. Oh, no. That cost includes the refireproofing and also the engineering cost related to the

design of the removal and the monitoring of the removal.

Q. When we were discussing a moment ago the Hall-Kimbrell report, I had noted that Hall-Kimbrell estimated the cost of removing the fireproofing to be approximately $33.8 million. Is it fair to compare the removal cost as calculated by Hall-Kimbrell against the estimated total cost of removing the fireproofing as contained in the Kondakjian cost estimate?

MR. CAMPBELL: Object to the form of the question.

MR. SILVERMAN: I will rephrase it.

Q. I had noted for the record, Mr. Kirshner, that Hall-Kimbrell calculated that it would cost approximately $33.8 million to remove the asbestos-containing fireproofing from Building 53. That figure is significantly less than the $41.2 million removal figure calculated by Mr. Kondakjian as reflected on Exhibit 5, and what I would like to ask you now is is it fair to compare those

two figures against one another?

MR. CAMPBELL: Object to the

form of the question.

A. It's not a matter of being fair. It's a matter of what is included in the Hall-Kimbrell costs and what is included in the costs that you see on the first sheet of Exhibit 5. On the first sheet of Exhibit 5 the total asbestos removal cost for the fireproofing includes the refireproofing and all of the engineering costs related to that to the removal and the refireproofing.

I'm not certain as to what the Hall-Kimbrell cost estimate includes. It seems to include fees, but I don't know if those fees are equivalent to the kind of fees that we have included, so I really can't tell the relationship between those numbers.

Q. Why did Charles Kondakjian estimate there to be 326,325 more square feet of asbestos-containing fireproofing in Building 53 than Hall-Kimbrell had calculated?

A. I don't know. I don't recall why he got this additional area.

Q. Did Hall-Kimbrell and Mr.

Kondakjian use widely divergent estimating

methodologies?

A. Charles Kondakjian took the Hall-Kimbrell test information and other information and then using drawings that were available to him went out and checked the size of the areas. I'm not certain why they have this difference.

Q. We had seen in the damages depositions for other buildings at issue in this litigation that Mr. Kondakjian had a predilection for relying heavily on calculations performed by Storch Engineers in preparing his 1991 and 1992 cost estimates, is that correct?

A. Yes.

Q. In fact, on more than one occasion I specifically recall we had seen that Mr. Kondakjian adopted wholesale the square footage calculations that have been determined by Storch Engineers, is that correct?

A. Yes.

Q. It is your understanding that

Mr. Kondakjian in preparing the cost estimate

for Building 53 again adopted wholesale the square footage calculations that had been determined two or three years earlier by Storch Engineers?

MR. CAMPBELL: Object to the form of the question.

A. (No response)

Q. Do you understand my question?

A. Yes, I do. Storch Engineers' work was done in 1990, 1991, which was just about one year before this estimate was prepared, and Charles copied for the most part the areas that Storch Engineers had used, the area sizes and locations and numbers, and may have copied -- I can't say for certain -- the area of asbestos fireproofing removals, but I don't know that.

Q. If you would look, Mr. Kirshner, toward the bottom of what we have marked today as Exhibit 5, which are the Storch Engineers' field data sheets that correspond to the work areas designated by Charles Kondakjian, is

that correct?

A. Yes.

Q. If one were inclined to do so, one could ascertain the extent to which Mr. Kondakjian adopted the Storch Engineers quantity figures by comparing the square footage quantities on an area by area basis working from the Kondakjian area estimate sheets back to the corresponding Storch Engineers' field data sheets; is that correct?

A. Yes.

Q. For the record, let me note that Mr. Kondakjian designated 200 separate work areas in his 1992 cost estimate. The figure 216, which is the last number that appears on the page of Exhibit 5 whose Bates numbering ends in the numbers 341D is somewhat misleading, because omitted from the range zero to 216 are Work Areas 5, 41, 42, 65, 179, 192, 198, 199 and 202 through and including 209.

Mr. Kirshner, do you know why Mr. Kondakjian designated his work areas in precisely this manner, skipping certain numbers in the range from zero to 216?

MR. CAMPBELL: Object to the form of the question.

A. No, but I could give you a probable reason for it. It could be that some of the areas did not include asbestos or did not include asbestos that was part of this litigation, so he may have had areas designated which were not included in the final estimate.

Q. Of the 200 separately designated abatement work areas in Exhibit 5, 196 of them involve abatement of fireproofing materials. Specifically, Work Areas 10, 140, 182 and 183 do not involve the abatement of any fireproofing.

Mr. Kirshner, we had seen in looking at Exhibit 4 that Hall-Kimbrell designated 69 abatement work areas, correct?

A. Yes.

Q. And not all of those 69 areas involved fireproofing, correct?

A. Yes.

Q. Would you say about half of those 69 areas involved fireproofing?

A. I didn't keep count.

Q. Would you say, though, for

purposes of discussion that that's a fair number?

A. Half or slightly more than half of the areas that were designated, yes.

Q. Would you say roughly 40 of the 69?

A. Yes, that's about right.

Q. One of the instructions that you received from Milton Pachter with regard to the preparation of future cost estimates was to designate as large work area as possible, is that correct?

A. Yes.

Q. To the best of your knowledge, the Hall-Kimbrell report that we marked as Exhibit 4 was a report prepared with an eye toward both the pentagonal portion of Building 53 as well as the eliptical portion, is that correct?

A. Yes.

Q. Why, then, if your marching orders were to designate as large work areas

as possible did Mr. Kondakjian increase nearly

fivefold the number of fireproofing work areas

over those that had been designated by Hall-Kimbrell?

A. It was his feeling that to keep the building operational that you had to do that based upon his opinion. He felt that the Storch delineation of work areas was more accurate as far as maintaining the building as occupational at the time.

Also, Mr. Kondakjian did not have an extensive amount of time to do his analysis. He did a large number of buildings in a very short time, so he really didn't have the chance to sit down and actively talk to the operations people to determine which operational areas would be reasonable for the building.

Q. Was it because of those time constraints that he was operating under that he intended to adopt wholesale the Storch Engineers' quantity data?

A. Yes.

Q. Do you know whether or not

Hall-Kimbrell was issued a similar instruction regarding the imperative of designating large

work areas when they were commissioned by the Port Authority to prepare their assessment in the late '80s?

A. I don't know.

Q. Mr. Kondakjian in preparing Exhibit 5 simply took the Storch Engineers work areas, correct?

A. Yes.

Q. And he also adopted the Storch Engineers' quantity calculations?

A. Yes.

Q. Does the 1992 cost estimate that Mr. Kondakjian prepared assume that within some of the fireproofing work areas more than one type of asbestos-containing product would be abated?

A. Yes.

Q. Does the 1992 cost estimate allocate general costs for those dual abatements such as electricity and mobilization costs?

A. Yes.

Q. How does it do that?

A. It does it by the ratio of

asbestos removal labor costs for the various products and quantities and then takes all of the other costs such as preparation, et cetera and relate it to the asbestos -- relate the overall cost to the ratio of the asbestos removal labor.

MR. SILVERMAN: Let me show you what I will ask the court reporter to mark as JFK Building 53 Damages Exhibit 6, a 77-page chart whose date on the bottom of the first page is given as 9/92.

(Thereupon, a 77-page document dated 9/92 was marked JFK Building 53 Damages Exhibit 6 for identification.)

Q. Mr. Kirshner, showing you what has been marked by the court reporter as Exhibit 6, have you seen this document before?

A. I don't recall seeing it.

Q. Is this a printout of the data entry fields corresponding to the Kondakjian cost estimate?

A. Well, it's corresponding to

Building 53 at JFK. I would assume it corresponds to his cost estimate.

Q. Did Mr. Kondakjian attempt to assign difficulty factors to the various fireproofing work areas that he designated as part of his cost estimate?

A. No.

Q. Why not?

A. I don't recall why not.

Q. Was that feature of the computer-generated cost estimating program present in the 1992 version?

A. Yes.

Q. Did Mr. Kondakjian attempt to assign scaffolding factors to his 196 fireproofing work areas?

A. He didn't have to. The program does that automatically, and it did that automatically.

Q. How so?

A. The productivity was reduced for every foot above 12-foot height of a room area, and that was done automatically by the program.

Q. Pages 64 through and including 70 of Exhibit 6 have a column second from the

right whose heading is an abbreviation for rolling scaffolding. Do you see that?

A. Yes.

Q. Consistently, in all of the columns for all of these work areas is the number zero. Immediately to the left of that column for these pages is a heading which is abbreviated as "scaffolding," correct?

A. Yes.

Q. Likewise, in all of the columns for these pages the number is zero, correct?

A. Yes.

Q. I thought you said that Mr. Kondakjian assigned scaffolding factors for his fireproofing work areas?

A. No. If you look at the first page and a few pages thereafter, the right-hand column, height, shows many of the heights above 12 feet. For each height above 12 feet there is an additional reduction in the productivity of removal of asbestos. That's done automatically by the program.

Q. There is no column visible in this Exhibit 6 that would reflect the

diminishment of the productivity value, correct?

A. No. The part that's left out here is that, the scaffolding itself. The cost of the scaffolding is not included and would have been on page 64 through 70.

Q. Why is that dollar amount omitted?

A. It shouldn't have been. It was an error.

Q. Please turn to page 66. The third column from the right toward the bottom of that column is the number 1200. I am on page 66 of Exhibit 6. Do you see that number, 1200?

A. Yes.

Q. I thought you said that the scaffolding dollar values had been omitted?

A. He included it only for that area, because that's an especially high area. That's a 20-foot high area.

Q. Judging by the height column

data provided on the first seven pages of Exhibit 6, 20 feet is the highest ceiling

anywhere in Building 53, correct?

A. Yes, and for some reason, that's the only place he seems to have included it, an area of scaffolding.

Q. Yes. I noted that there are many work areas that likewise have ceiling heights of 20 feet, and yet for those other work areas he did not attribute a dollar value to the scaffolding cost. Again, do you believe that to be a mistake on Mr. Kondakjian's part?

A. Well, I think whenever you're above 12 feet you should probably have scaffolding, and something should have been included. What the scaffolding column does is gives you the cost of the scaffolding itself on pages 64 through 70.

Q. However, in this instance, with the one notable exception, there are no such dollar value attributions, is that correct?

A. That's correct.

MR. SILVERMAN: Let's take a

lunch break.

(Luncheon recess)

Q. Mr. Kirshner, at this point in the deposition I would like to spend some time reviewing the Kondakjian cost estimate in some detail, and before I do that I would like to take care of an administrative matter and state on the record that on December 27, 1996 I faxed to Ezra Bialik a letter requesting that certain pages from Exhibit 5 that I had noted in my review were missing be sent to me.

Mr. Bialik on January 3rd of 1997 sent me the pages that I noted were missing from Exhibit 5, and just before we resumed this afternoon's session of today's deposition I had supplemented the copies of Exhibit 5 that we are using today, the official marked copy of Exhibit 5 as well as a courtesy copy that I have provided to your counsel as well as supplementing my working copy of Exhibit 5.

Before we broke for lunch, Mr. Kirshner, you had explained to me why certain work area numbers were omitted from the

Kondakjian cost estimate, and I must confess I don't understand your explanation. Could you

please educate me again?

A. I explained why they could have been omitted, and basically when Storch did its survey it designated areas within the building and tested for the asbestos within those areas, fireproofing and other possible asbestos sources.

It could be that some of those areas did not have any asbestos, or it could be that some of those areas had asbestos which was not identifiable as to the manufacturer, and both of those would have been omitted from his estimate.

Q. Mr. Kondakjian, then, not only adopted the work areas and the square footage quantities from the Storch Engineers assessment, but he also adopted verbatim the work area designations themselves, is that correct?

A. Apparently, yes.

Q. In other words, having observed that certain of the 216 work areas did not

contain asbestos materials, he nevertheless

chose not to close the gaps in the number

range but rather to leave the gaps there, is that correct?

A. Yes.

Q. Further evidencing the extent to which he adopted wholeheartedly the data assessed by Storch Engineers, correct?

A. Yes.

Q. Please turn to the Storch Engineers field data sheet corresponding to Kondakjian Work Area 43. I believe all of the field data sheets are arranged in ascending numerical order. In the specifics and comments section of this form the following notation appears:

"Dimensions on card accurately represent the total cubic footage of the work area which has an odd shape. Quantities of fireproofing are accurate." Have I read that correctly?

A. Yes.

Q. For the record, a similar notation appears on the Storch Engineers' field

data sheets corresponding to Kondakjian Work Areas 45 through and including 48, 51, 56, 57,

59, 61, 62, 69, 75, 79, 85, 144, 145, 148, 149, 150, 157, 158, 160, 161, 162, 165, 166, 167, 168, 170 and finally 171. Mr. Kirshner, do you understand what that notation means?

A. It would mean to me that the dimensions shown at the top of the page at that heading where it has various dimensions were checked in the field and are assumed to be right. Also, the dimensions of the quantity of fireproofing as shown in the middle of the page under square feet of fireproofing are also assumed to be right and checked.

Q. Is it your understanding that a Storch engineer acting in a supervisory capacity double-checked the work performed by another Storch engineer and confirmed the accuracy of the initial calculations and that that confirmation is reflected in this notation?

A. I don't know.

Q. It just seems odd to me that one

would note on an assessment form the fact that their observations and calculations are

accurate. I have never seen, and I don't think you have either during the course of these damages depositions a notation like this. When I read it, it caught my eye.

Mr. Kirshner, do you have any explanation or understanding as to why Storch Engineers felt it necessary to confirm the accuracy of their field data inspection forms?

MR. CAMPBELL: Object to the form of the question, assumes a fact not testified to.

A. The answer is no.

Q. There is a reference in this notation to the "card." What is that?

A. Storch Engineering and others usually took their field notes on a card.

Q. Which then were transcribed onto these uniform field data inspection forms?

A. Yes.

Q. The author of this notation makes reference to total cubic footage, whereas the measurements given are given in

square feet, correct?

A. Not exactly. The comments at

the bottom of the page refer to the cubic footage of the room and to the quantity of the fireproofing, so the cubic footage of the room are those numbers which are given on top of the page, fireproofing quantity in the middle of the page.

Q. Please turn to the field data inspection form corresponding to Kondakjian Work Area 52. In the specifics and comments section of this field data sheet, the following notation appears: "Immediately adjacent to M.E.R. No. 2 entrance is women cafeteria personnel only (ARA). This room could not be done since ceiling tile (interlocking) would have to be destroyed." Have I read that correctly?

A. Yes.

Q. To your knowledge, was Work Area 52 ever visually inspected in connection with the preparation of the 1996 cost estimate?

A. I can't think if the comment refers to this room which is the women's locker

room or whether it's to the adjacent room which was not included in this. I really

can't tell what this note means.

Q. It's logical, though, that the author of this notation would have been making reference to rooms that were part of the scope of the assessment, correct?

A. I don't know. It could be that this was right next door, and he's just putting a note on this drawing because he observed it was right next to this room.

Q. There is an arrow to that portion of the notation that discusses lack of access to a particular room, and beneath the arrow is the note "Estimates done on 8-4, 8-5" beneath which are the letters "PA." What does that follow-up notation mean?

A. PA?

Q. The follow-up notation in its entirety.

A. I don't know.

Q. My suspicion is that the 8-4 and the 8-5 are references to the two fireproofing quantities which in the middle of the page

both appear as Type 8 and Sub4 and then Sub5.

Do you see that?

A. Yes.

Q. Do you concur?

A. It could be that, yes.

Q. What does the PA stand for?

A. Must be Port Authority.

Q. Do you have any idea what this notation in its entirety means?

A. No.

Q. Please turn to the field data sheet corresponding to Kondakjian Work Area 59. In the specifics and comments section of this form is a notation that reads as follows: "A 13-foot by 43-foot section (east side) of this area is approximately eight feet high, and the slab is not sprayed with fireproofing nor are there any beams." Have I read that correctly?

A. Yes.

Q. What does that mean?

A. That along this room which is 43 feet by 35 feet in size along the east side of the room, the first 13 feet has a platform of

some sort to that ceiling is only 8 feet above the platform, whereas the balance of the 22

feet by 43 feet is the full 14-foot height and that the shallower part does not have any fireproofing sprayed on the slab or on the beams.

Q. Actually, there are no beams in that shallow portion?

A. There are no beams in that area.

Q. Please turn to the very next field data sheet corresponding to Work Area 60. In the specifics and comments section of that form the following notation appears: "Some fallout noted in area." Do you see that?

A. Yes.

Q. What does that mean?

A. Fallout is usually a dustlike material that has fallen out either on the floor or on articles close to the floor.

Q. Was the fallout noted here asbestos-containing?

A. No. The fallout was noted here as a way to determine the condition of the

asbestos in this area.

Q. Was the material that had fallen

out asbestos-containing material?

A. I don't know. It appears that all fireproofing and most of the other types of asbestos -- of possible asbestos-containing insulation in this room do contain asbestos, so therefore the fallout would probably be an asbestos-containing material.

Q. The thrust, then, of this comment is that the condition of the asbestos-containing materials in this work area is poor, correct?

A. Yes.

Q. Please turn to the field data inspection sheet form corresponding to Work Area 67.

A. All right.

Q. There are two notations that appear in the specifics and comments section of this form, the second of which reads as follows: "Bathroom attached to this area could not be done. Suspended plaster ceiling with no access." Do you see that?

A. Yes.

Q. Is it your understanding that

this bathroom is part of Work Area 67 or might have like an earlier similar example be contiguous to a work area but not part of a work area?

A. No. I would assume based on the description of this room that the bathroom was part of the women's locker room.

Q. When the author wrote that the bathroom "could not be done," what do you understand that phrase to mean?

A. That the walls of the bathroom went up to the slab and that the ceiling of the bathroom was plaster as they have noted, and therefore they couldn't get to the potential or possible fireproofing above the bathroom without destroying part of the walls or part of the ceiling, so they did not have access to sample the material in that area.

Q. Is it your understanding that Mr. Thorve in preparing the 1996 cost estimate did have access to this area?

A. I don't know.

Q. Please turn to the field data sheet inspection form corresponding to Work

Area 70. The notation in the specifics and comments section reads "Large portion of area not sprayed." Do you see that?

A. Yes.

Q. What does that mean?

A. That means that a large portion of the slab area was not sprayed with fireproofing.

Q. Does that mean that there are some beams in this work area that have no fireproofing on them?

A. No. I would say that there was very little overspray.

Q. Does the Port Authority's computer-driven cost estimating program account for overspray?

A. Yes.

Q. In what way?

A. In the square footage of asbestos-containing fireproofing to be removed.

Q. Does this program address the

varying degrees of thickness of overspray?

A. No.

Q. How is the program able to accurately assess the cost of removing fireproofing when it cannot due to its limitations address thickness as the third dimension?

A. Within the accuracy of this type of an estimate, the thickness is not an important consideration. When the fireproofing is two inches thick or one half of an inch thick, you still have to do an initial bulk removal of it and then a final scraping of it. Those are the costly items. The thickness of the asbestos-containing material would relate only to the disposal costs, which is a relatively minor difference in the cost.

Q. Disposal costs are measured in terms of cubic yards of disposed waste, correct?

A. Yes.

Q. The thicker the coating of fireproofing, the more expensive it will be to

cart that away, correct?

A. Yes.

Q. But that's a relatively minor component of the removal cost, is that what you're saying?

A. That difference would be a relatively minor component of the cost.

Q. Please turn to the field data sheet inspection form corresponding to Work Area 100. The notation that appears in the specifics and comments section of this form reads as follows:

"Limited access - one small penetration in the drop ceiling in the rear of the store was available for accessing the plenum. Destructive survey would have been necessary for better observation. Quantity of 8-4 based on the structural beam pattern throughout the outbound level." Have I read that accurately?

A. Yes.

Q. Is this another instance where access was limited and frustrated attempts to visually inspect the fireproofing?

A. Yes, but they did inspect it through the one opening. They just couldn't

access the entire area.

Q. It would appear that they derived their square footage calculations notwithstanding a lack of access by reliance on a repeating beam pattern that they assumed was repeated in this portion of Work Area 100 as well, is that correct?

A. Yes, but you will note it did not include any of the overspray in this area.

Q. To your knowledge, was Sanyog Thorve more successful than the Storch engineer that completed this form in accessing the fireproofing in this portion of Work Area 100?

A. The information and the observations on this building were a magnitude more accurate in the Thorve estimate than they were in this estimate based on the time spent on assessing the building.

Q. How much time did Mr. Kondakjian spend preparing the 1992 cost estimate?

A. Couple of days.

Q. How much time in contrast to that did Mr. Thorve spend preparing the 1996

cost estimate?

A. Mr. Thorve and others, perhaps a month.

Q. Please turn to the field data inspection sheet corresponding to Work Area 105. I had difficulty reading the notation that appears in the specifics and comments section. I was wondering if I could solicit your help.

A. Even if I had my glasses, it's something like the quantities and materials found and then it fades out totally. Then the bookstore is the next line.

MR. SILVERMAN: John, how about you?

MR. CAMPBELL: I'm not testifying.

MR. SILVERMAN: Can you make it out? I get as far as "quantities of materials found," and then it's a blur to me. Can you make out anything else?

MR. CAMPBELL: I have no idea.

Q. Please turn to the field data inspection sheet corresponding to Work Area

144. In the specifics and comments section of this form there are additional quantities of square footage of fireproofing being added in for some reason. Do you understand why?

A. There is a note to the right of the comments section which describes why it's added in. They are accounting for some other area, a 45-foot by 10-foot section which is along the south side of this area.

Q. In other words, whomever completed the specifics and comments section of this form was correcting an error that was made by whomever completed the middle portion of the form?

A. Yes. They were adding some quantities into the middle area, and if you look at the two fireproofing areas, the beams and the slabs, they changed those quantities.

Q. Did Charles Kondakjian take into account overspray in preparing his 1992 cost estimate?

A. Sometimes.

Q. He did to the extent that Storch Engineers did, is that correct?

A. Yes.

Q. Turning to the Storch Engineers field data inspection sheet corresponding to Kondakjian Work Area 152, it's clear from the notation in the specifics and comments section of this form that overspray on the decking was taken into account in this work area, correct?

A. Yes.

Q. I will note for the record that a similar notation appears on the field data inspection sheets corresponding to Kondakjian Work Areas 153, 171, 172, 173, 175 through and including 178 and finally 185. Why is it that Storch Engineers seemed to have accounted for overspray on decking in only 10 of the 196 fireproofing work areas?

A. Well, I noted on some of the previous areas that had overspray -- where they had fireproofing on the entire deck, these are instances where there must have been appreciable overspray, so they included it. That's the only explanation that would cover

it. Probably if the overspray was very small, they did not include it.

Q. What you are hinting at, I gather, is that the real test of whether the Storch engineer accounted for overspray is not whether such a notation appears on the form but rather whether there is a Type 8 and a Sub5 in the middle of the page, is that correct?

A. Yes.

Q. Please turn to the field data inspection sheet form corresponding to Work Area 161. There is a notation in the specifics and comments section that reads as follows: "Non-ACM quantified as per P.A." Have I read that correctly?

A. Yes.

Q. Am I to understand that the quantities of allegedly asbestos-containing materials in Work Area 161, in fact, contained non-ACM quantities?

A. It's referring to the fact that several of the pipes and one of the ducts was insulated with fiberglass but that fiberglass

was below fireproofing and therefore they are estimated separately.

If you look at the middle of the page, the last four items are noted in the location column with the FG on that. That would be fiberglass. What this refers to are these nonfireproofing items. Typically in an asbestos job, if you have fireproofing that's above fiberglass and the fiberglass is porous and the fireproofing has been there a long time and there's been dust fallout or some fallout, you would remove the fiberglass at the same time.

Q. Why?

A. Because it's contaminated and difficult to clean.

Q. Is fiberglass insulation like asbestos insulation contained within a protective wrapping of some kind?

A. Vinyl sometimes and sometimes not. There was no vinyl there.

Q. In those instances when it is contained within a protective wrapping, why, then, would it would necessary to abate the

fiberglass insulation along with the fireproofing?

A. What you would actually do is abate it. What you would actually do in that case is clean the fiberglass wrapping and cover it with plastic before you abated the balance of the room, so it does require some work during an asbestos job, but for the balance of the room does not require removal. It was noted here it's a nonfireproofing item, series of items, but it was just noted here for information.

Q. In other words, the square footage of fiberglass insulation was not added to the quantities of asbestos-containing fireproofing to arrive at a sum total that included some fiberglass, is that correct?

A. I don't know if it was. They may have added some cost in to clean it and wrap it, but I'm not sure if they did or not.

Q. We had spoken earlier that you were explicitly instructed to prepare cost estimates that presumed complete removal as the exclusive abatement option, is that

correct?

A. Yes.

Q. Was that only vis a vis the fireproofing material?

A. No. It would be complete removal of all of the asbestos-containing materials.

Q. But you would not be completely removing the fiberglass insulation to the extent that it may have been contaminated with asbestos fibers, is that correct?

A. Not if the fiberglass or other insulation which was not asbestos-containing had a smooth wrapper which could be cleaned.

Q. But in those instances where the fiberglass insulation had no such smooth wrapper facilitating cleaning, the fiberglass insulation would likewise be removed along with the asbestos-containing fireproofing?

A. Yes.

Q. Can you ascertain looking at this particular field data sheet inspection form whether the fiberglass insulation referenced here is of the variety that comes

encased in a smooth wrapper or is of the variety that would need to be completely

removed?

A. No. I can't ascertain this, but if you look at your estimate for that area, you could probably get a feel for that.

Q. Why don't we look at the cost estimate sheets for Work Area 161 that begin at Bates numbering 805D. Mr. Kirshner, can you determine from looking at the area summary table and area estimate sheets whether the fiberglass referenced on this field data inspection sheet form has a smooth wrapper?

A. Yes, I can determine that.

Q. How can you determine that?

A. When you look at the summary of the -- of what was removed, the only materials that were removed and estimated for Area 161 were fireproofing.

Q. What is your conclusion?

A. That the piping quantities, those four items that are the last four items on the Port Authority -- the Storch Engineering inspection form which relate to

pipe and duct work and are noted as fiberglass

on their form are not included in the area

estimate.

Q. Might those quantities have been folded into the fireproofing square footage?

A. It doesn't appear so when you look at the quantities that are in the fourth column in the middle of the page. When you add up the fireproofing quantities, it appears that that's the entire -- just about the entire quantity you're talking about. If you added up the bottom four items you would get another 4,000 and several hundred, and that's not included.

Q. Please turn to the very next field data inspection sheet form corresponding to Work Area 162. In the specifics and comments section it says "Negative materials included as per PA instructions." Do you see that?

A. Yes.

Q. The PA is the Port Authority, correct?

A. Yes.

Q. I don't see any designation of fiberglass, "FG," in the location column of

this field data inspection sheet form.

A. How about on the right side of the last column?

Q. FBG. stands for fiberglass?

A. I don't know. It may to this person, because the items above that are all noted as ABS, which I assume refers to asbestos.

Q. Looking at the area summary table for Kondakjian Work Area 162, is it your understanding that negative materials were not folded into the fireproofing square footage quantity figure listed, namely 14,850 square feet?

A. That's right. The only -- if you look at the field data inspection form, the first two quantities of asbestos would total that.

Q. Please turn to the field data inspection sheet corresponding to Work Area 183. The notation in the specifics and comments section reads as follows "Due to

amount of suspect debris in many areas, there should be a full containment area." Do you

see that?

A. Yes.

Q. What does that mean, "a full containment area"?

A. That means that although there is just pipe and fitting, you should not do this with a glove bag technique, that there is so much fallout that you should contain the entire area, remove the asbestos from the pipes and fittings and clean up the balance of the room at the same time.

Q. In other words, adopt the cleanup protocol and methodology that you would adopt to abate a fireproofing area?

A. Yes.

Q. Please turn to the field data sheet inspection form corresponding to Work Area 190. The last full sentence of the notation in the specifics and comments section of this form reads as follows: "Numbers for 8-4 and 8-5 on this card are assumed."

A. Excuse me. Which one are we

looking at?

Q. 190, the last sentence.

A. Okay.

Q. "Numbers for 8-4 and 8-5 on this card are assumed. Fireproofing is considered homogenous with material found throughout new addition southeast corner areas." Do you see that?

A. Yes.

Q. Am I to understand that the Storch engineer that completed this form did not have access to the fireproofing in this area?

A. It appears so, based on their comment.

Q. Do you know whether Mr. Thorve and those who helped prepare the 1996 cost estimate were able to access the fireproofing in Work Area 190 for inspection?

A. Yes, I think they did have access to the area.

Q. What is it about Work Area 190 that you recall Mr. Thorve having access to but when I asked you a similar question with

regard to other work areas where there had

been a notation about lack of access, you were

not able to conclusively say whether Mr. Thorve had more access?

A. Area 190 is the cafeteria area and the kitchen area, and you have to be extremely careful in opening up those areas because of contamination to the public, but these areas have ceiling panels which can be removed to go through.

Some of the other areas that you referred to have plaster roofs and full walls outside the room, and there's no way to access the area above that ceiling without destroying something to gain access.

Q. Turning to the Storch Engineers field data sheet for Work Area 191, again there is a notation reflecting a lack of access to the fireproofing in this work area, correct?

A. Yes.

Q. Is it your understanding that Mr. Thorve and those who assisted in preparing the 1996 cost estimate had better luck in

observing visually the fireproofing of Work Area 191?

A. I will assume they didn't.

Q. Turning to the Storch engineer field data sheet for Work Area 195, there is yet another notation reflecting a lack of access to the fireproofing within that work area, correct?

A. Yes.

Q. Is it likewise your understanding that those who prepared the 1996 cost estimate were similarly frustrated in their efforts to visually inspect the fireproofing in Work Area 195?

A. Yes, because of a plaster ceiling.

Q. Does the same hold true for Work Area 196?

A. Yes.

Q. They most likely did not visually inspect the fireproofing in that work area, correct?

A. Yes.

Q. The "they" was a reference to

Mr. Thorve and those who prepared the 1996 cost estimate, correct?

A. Yes.

Q. I will show you what I will ask the court reporter to mark as Building 53 Exhibit 7, a series of eight construction drawings presented on 17-inch paper.

(Thereupon, a series of eight construction drawings presented on 17-inch paper was marked JFK Building 53 Exhibit 7 for identification.)

Q. Mr. Kirshner, showing you what has been marked by the court reporter as Exhibit 7, have you seen this series of drawings before?

A. I don't recall seeing them at this point.

Q. What are they?

A. A series of drawings which have areas noted, those areas obviously being the 1991 or 1992 estimate.

Q. Is it your understanding that the drawings that comprise Exhibit 7 accompany the 1992 cost estimate?

A. I don't know if they accompany it, but they seem to have several if not all

of the areas noted on it, so they may have been a basis for picking the areas. There are also a series of notations on some of the areas as to how the calculations were made for the square footage of asbestos.

Q. When you inspected Building 53 with Charles Kondakjian prior to submitting the future cost estimate for consideration by Ezra Bialik, did you discuss with Mr. Kondakjian his increasing nearly fivefold the number of fireproofing work areas over those that had been designated by Hall-Kimbrell?

A. No.

Q. Were you satisfied at that time, at least, that Mr. Kondakjian had satisfactorily designated as large work areas as possible?

A. No. I was satisfied that he had looked at the size of his work areas and within the time constraints he had that he felt that he had picked out some reasonably sized areas in order to keep the area in

operation.

Q. Did you know at the time of your

inspection of Building 53 with Mr. Kondakjian that what he had done was ostensibly adopt wholesale the Storch Engineers assessment?

A. I don't recall if I knew it at that time.

Q. I will ask the court reporter to mark as Exhibit 8 a seven-page document dated September 22, 1992 entitled "Final Production Identification Statement for Building and Products at Issue."

(Thereupon, a seven-page document dated September 22, 1992 entitled "Final Production Identification Statement for Building and Products at Issue" was marked JFK Building 53 Damages Exhibit 8 for identification.)

MR. CAMPBELL: Could we take a five-minute break?

MR. SILVERMAN: Sure.

(Recess taken)

Q. Mr. Kirshner, showing you what has been marked by the court reporter as JFK

Building 53 Damages Exhibit 8, have you seen this document before?

A. No.

Q. Please turn to the third page of the document. Toward the top of the page do you see where it indicates that Building 53 has two floors?

A. Yes.

Q. My recollection of the four drawings that comprise Exhibit 1 to this deposition was that Building 53, in fact, has three floors that are above ground and one floor for at least a portion of the building that is below ground. Why does this document indicate that Building 53 has only two floors?

A. My recollection of the building is that there are two floors above ground plus a partial floor, third floor, above ground and one floor below ground. I don't know why this has two floors.

Q. Do you see beneath that where it says "Size of Building: 700,000 square feet"?

A. Yes.

Q. You testified earlier this

morning, however, that you believe Building 53 to be much larger than 700,000 square feet, is

that correct?

A. When you include the entire building which would include the eliptical area also.

Q. Is there anything about this document, Exhibit 8, that leads you to believe that only one portion of Exhibit 53 is the subject of this Exhibit 8?

A. It may be the pentagonal portion of the building.

Q. What is it that causes you to suspect that to be the case?

A. Because as I recall, there is little or no fireproofing in the eliptical portion of the building, so they may have included just the other area.

Q. Mr. Kirshner, I recall that the pentagonal portion of Building 53 was the portion that contained a below ground level, correct?

A. Yes.

Q. Likewise, it is the portion that

contains a partial third floor, is that correct?

A. Yes.

Q. So if Exhibit 8 is referencing only the pentagonal portion of Building 53, how, then, could it conclude that the pentagonal portion of 53 has but two floors?

A. It's incorrect.

Q. Do you see at the bottom of page 3 the name Nick Lanci?

A. Yes.

Q. Are you familiar with that name?

A. No.

Q. Please turn to the fifth page of Exhibit 8. Do you see where it indicates the approximate total square footage of the product, in this instance fireproofing manufactured by W.R. Grace, is given as 1,247,000 square feet?

A. Yes.

Q. Do you see directly beneath that the estimated cost of abating at some future point that quantity of W.R. Grace's fireproofing is given as $40,630,000?

A. Yes.

Q. Do you know what source was used

to calculate the number of square feet of fireproofing in Building 53 and the estimated cost of abating that fireproofing?

A. The quantity of fireproofing is very close to the quantity that's on the Charles Kondakjian estimate. The cost is somewhat different than that estimate, and I can't tell where that cost is from.

Now, it could be that the figure on the Charles Kondakjian estimate minus some of the asbestos that had already been removed within those areas would give this number, but I don't know at this time.

Q. I don't think it's likely that Exhibit 5 was the source for the information contained in Exhibit 8, at least insofar as square footage quantities and dollar value of removal is concerned --

MR. CAMPBELL: Objection.

Q. -- because Exhibit 8 predates Exhibit 5 by roughly five weeks. Do you see that?

A. I see it, but I don't agree with that. Exhibit 5 is just a printout on that

date, and it may have been done six months earlier and would be the exact same numbers as you have here. It's just whenever it's printed out. It comes out with the date on top, the current date.

Q. What was curious to me, Mr. Kirshner, was that in so many of the damages depositions thus far we had seen that, in fact, the Kondakjian cost estimate had been the benchmark from which the final product identification statement data was derived.

In this building, 53, I was struck by the fact that the final product identification statement reflects approximately 19,000 fewer square feet of fireproofing material, and it also bears a cost removal price tag that is roughly $600,000 less than that estimated by Mr. Kondakjian.

Do you know what source was used to prepare the Exhibit 8 final product identification statement?

MR. CAMPBELL: Objection to the form of the question.

A. No.

Q. Is it possible that there had been some abatement activity from the time that the Kondakjian cost estimate was finalized to the time that the final product identification statement was prepared and that reduction in asbestos fireproofing might account for the 19,000 square foot discrepancy?

A. I doubt that, but it is possible that there was abatement activity that was recognized between those two dates, and therefore that was deducted off the Exhibit 8 estimate of quantity and cost.

Q. Do you have your own theory as to why the diminishment in square footage took place?

A. No.

Q. Let me ask the court reporter to mark as JFK Building 53 Damages Exhibit 9 this multi-page document whose first page bears the heading "JFK International Airport Building

No. 53 Asbestos Removal Cost Estimate, July, 1996 Prepared by Sanyog Thorve."

(Thereupon, a multi-page document whose first page bears the heading "JFK International Airport Building No. 53 Asbestos Removal Cost Estimate, July, 1996 Prepared by Sanyog Thorve" was marked JFK Building 53 Damages Exhibit 9 for identification.)

Q. Mr. Kirshner, showing you what has been marked by the court reporter as JFK Building 53 Damages Exhibit 9, have you seen this document before?

A. Yes.

Q. Is this the 1996 cost estimate prepared by Sanyog Thorve?

A. Yes.

Q. Did anyone else assist Mr. Thorve in preparing this document?

A. No.

Q. Did anyone other than Mr. Thorve prepare this document?

A. No.

Q. Why was it prepared when Mr.

Kondakjian had already prepared a cost estimate in 1991 and 1992?

A. Sometime in 1995 we were told that we had a window of opportunity to upgrade our cost estimates and we would have the time to do that, and we therefore both changed the asbestos estimating program, upgrading it, and went through the process of looking at all of the abatement projects that had been performed in all of the buildings that we were doing the estimating for.

At the same time we took a more careful look at the work areas, quantities of asbestos and difficulty factors and redid the estimate to bring it up in its quality so that we would have the quality estimate that we felt we would feel comfortable being deposed about.

Q. Who at the Port Authority apprised you of the window of opportunity to update the cost estimates?

A. Ezra Bialik.

Q. Was it he who requested that the 1996 cost estimate for Building 53 be

prepared?

A. Yes.

Q. At that time when he issued this request, did he or anyone else at the Port Authority issue any instructions like those that had been issued years earlier by Milton Pachter with regard to the preparation of the revised cost estimate?

A. We did discuss the approach that we had taken before and what we would be doing for this new estimate, and one of the things we did was we upgraded everything to the second half of 1995. That is, all of the 95/96 estimates are done as if they were done in the second half of 1995 with productivity factors and labor rates as of that period.

We also confirmed the other approaches that we were following in being conservative and enlarging areas where we could and using reasonable difficulty factors, in most cases maintaining operations in order to arrive at a defensible estimate.

Q. I will note for the record that the internal pages of Exhibit 9 all bear the

date July 18, 1996. I gather from earlier

testimony that this is merely the date on

which this particular version of the 1996 cost estimate was printed out, is that correct?

A. Yes.

Q. Was it, in fact, finalized prior to this time?

A. No.

Q. Do you recall when it was finalized?

A. In July of 1996.

Q. Did you review this report with Mr. Thorve in the same way that you had reviewed Mr. Kondakjian's report with Charles back in the early 1990s?

A. In much more detail.

Q. How so?

A. I had more time to review this estimate, and Mr. Thorve had more time to spend with me to review this estimate.

Q. Did you and he travel to Building 53 to perform an inspection of the facility in the same way that you had once done so with Mr. Kondakjian?

A. I did not.

Q. Mr. Thorve, however, did

undertake several inspections of the facility?

A. Yes. Mr. Thorve and others working for the Port Authority spent considerable time at the facility in going through the areas.

Q. Generally speaking, in terms of methodology how is the quantity of fireproofing determined for the 1996 cost estimate?

A. We used the beams on the overspray where there was overspray or fireproofing on the deck where that did occur and actually took the beam shapes, determined the square foot per foot of beam and determined the amount of fireproofing on the beams.

They did not account for miscellaneous steel add-ons such as stiffness or end plates or web plates of any type. They then added on the fireproofing to that estimate.

Q. Did Mr. Thorve utilize a beam-

calculating computer program to calculate the square footage of fireproofing as applied to

steel beams?

A. He used the Port Authority program, which for a number of steel shapes will give you the square footage of fireproofing per foot of beam.

Q. Is the Port Authority's beam-calculating computer program limited in terms of the number of beam designations that it addresses?

A. Yes. It addresses the current standard beams as you would find in the American Institute of Steel and Construction Manual.

Q. You said standard beams, however, correct?

A. Yes.

Q. Not all possible fabrication varieties, correct?

A. Correct.

Q. What happens in an instance when a preparer of a cost estimate encounters a particular beam in a facility whose

designation is not addressed by the Port

Authority's beam-calculating computer program?

A. The person performing the estimate will pick the closest beam in size and weight to the beam that he actually has in the field, and he would use the estimate based on that. That beam that he picks from the program may be slightly larger or slightly smaller than the beam that's actually in place.

Q. In other words, the standing instruction is not to round down to the next smallest beam or alternatively to round up to the next largest beam, but rather to select the next closest beam regardless of whether it's larger or smaller, correct?

A. Yes.

Q. You used the word "slightly." in your answer to my last question. Is there ever a situation where the next closest beam addressed by the computer calculating program that the Port Authority uses is not slightly larger or slightly smaller but rather significantly larger or significantly smaller

than the subject beam?

A. I doubt it. These are for the

most part not a bridge-span type of beam. These are building beams, and building beams are within a certain range, and for the Port Authority program the standard beam size now should bracket most of the beams that were used in the buildings.

Q. Couldn't the preparer of a cost estimate manually calculate the square footage of fireproofing on the subject beam using manuals of dimensions of various beam designations rather than finding an approximation of the next closest size beam addressed by the program?

A. Yes, if he could find the beam sizes in a manual, but if he could find it in a manual, it would probably be in the Port Authority program. The case in fact is that where a beam is an imported beam or is a beam shape that is no longer in use, it would not be in the manual. He will therefore have to take the approximate measurements of the beam and use those.

Q. You mentioned, Mr. Kirshner, that the preparer of the cost estimate did not

take into account fireproofing as applied to structural add-ons such as stiffeners and end plates and web plates, is that correct?

A. Yes.

Q. Why is that?

A. Too time consuming, and probably doesn't add that many dollars in the long run when we include those. In fact, in this building you find out this is one of the buildings that has asbestos on the columns, and the columns were not accounted for in this building, either.

Q. Was that an oversight?

A. No. It was decided that even though it would add some -- it's very difficult to do, so let's not do it.

Q. Columns as opposed to beams are vertical structural steel members?

A. And usually encased with something.

Q. As in the earlier cost estimate prepared by Mr. Kondakjian, the one that Mr.

Thorve prepared that we have marked today as

Exhibit 9 likewise presumes complete removal

as the exclusive abatement option, is that correct?

A. Yes.

Q. I will note for the record that all 70 of the separate work areas designated by Mr. Thorve in his 1996 cost estimate involved the removal of fireproofing. Do you know what that number was based on?

A. The 70?

Q. Yes.

A. They are based on 70 areas that he selected as reasonable work areas to maintain the operation of the building.

Q. It's a number very close to the 69 separate work areas designated by Hall-Kimbrell in their assessment performed in the late '80s. Is it your understanding that like Mr. Kondakjian, who relied heavily on the Storch data, Mr. Thorve relied heavily on the Hall-Kimbrell data?

A. Mr. Thorve told me that he did this independently. While he may have looked

at all of the previous data, he did this independently.

Q. Did Mr. Thorve seek any guidance or consultation with you when he was designating his 70 separate fireproofing work areas?

A. No.

Q. Does there today exist an actual abatement design for the complete removal of all the fireproofing in JFK Building 53?

A. No.

Q. Isn't it true that when and if the time should come when such an abatement design would be commissioned that it would be that abatement design that will dictate the actual number of fireproofing work areas?

A. Yes.

Q. Isn't it possible that should that day arise that there will, in fact, be fewer than 70 fireproofing work areas?

A. Not very likely. When you look at the size of the abatements to date which all had to do with renovations in the building, they are much, much smaller than the

size of the work areas that we have designated in the 1996 estimate.

Q. I understand that the 1996 cost estimate incorporates statistical data through the second half of 1995, correct?

A. Yes.

Q. Was Mr. Thorve instructed to prepare a future cost estimate for an abatement that would take place in any particular given future year?

A. No. He was instructed to prepare the cost estimate as if it were going to be performed in 1995, the second half of 1995.

Q. Please turn to the page of Exhibit 9 that is Bates stamped in the lower right-hand corner with the number ending 594.

A. All right.

Q. This page has a heading on it that reads "Beam shapes," correct?

A. Yes.

Q. Each one of the 70 work areas designated by Mr. Thorve has an accompanying beam shape sheet, correct?

A. Yes. If there are beams in the area, he has done so.

Q. What does this beam shape sheet reflect?

A. It shows the beam from the beam program and the depth and width of the beam and the feet of beam and the square feet of fireproofing per foot of beam multiplied out given the square foot of fireproofing on the beam.

Q. So this sheet --

A. It also subtracts the area of the beam that may be touching the deck, so therefore is not fireproofing.

Q. The beam designations as given on every beam shape sheet, then, are not the designations of the actual subject beams but rather those that were selected by the estimate preparer as to be as close in size and dimension to the subject beam, is that correct?

A. It's my understanding of the beam program that you have to select a beam that is in the program. Mr. Thorve can

clarify that, but it's my understanding that

the beam that's shown here is that beam that's

in the program itself.

Q. But not necessarily the actual beam that's the subject beam? It may or may not be the same designation as the subject beam?

A. That's right.

Q. Keeping your finger on the page that we were just looking at, please turn to the page of Exhibit 9 which has Bates numbering ending in 649.

A. 649?

Q. Correct.

A. All right.

Q. The page with Bates numbering ending with 649 is a handwritten worksheet, correct?

A. Yes.

Q. Like the beam shape sheets, there is a separate handwritten worksheet for each of the 70 work areas designated by Mr. Thorve, correct?

A. Yes.

Q. In order to analyze accurately his cost estimate, then, it is necessary to

look at the cost estimate data reflected in the report itself in conjunction with the accompanying beam shape sheet and the handwritten worksheet for each fireproofing work area, correct?

A. Yes.

Q. Let me ask the court reporter now to mark as JFK Building 53 Damages Exhibit 10 a multi-page document on 11-inch paper whose first page bears the Bates number PA0277574.

(Thereupon, a multi-page document on 11-inch paper whose first page bears the Bates number PA0277574 was marked JFK Building 53 Damages Exhibit 10 for identification.)

Q. Mr. Kirshner, I show you what the court reporter has marked JFK Building 53 Damages Exhibit 10. Have you seen this document before?

A. Either this document or something similar to it.

Q. What is it?

A. It's the input sheets for the

1996 cost estimate for Building 53.

Q. I will represent to you that this very document was produced to us by the Port Authority Law Department in its present form. Mr. Thorve, unlike Mr. Kondakjian, did assign difficulty factors to his 70 fireproofing work areas, correct?

A. Yes. My copy is not that clear, but he did.

Q. They seem to all be 1.2, is that correct?

A. From the ones I can see, that's correct.

Q. I want you to take a look at my copy, which might be somewhat clearer than yours.

A. No, it's about the same. It disappears toward the bottom of the page, but as I recall, they were all 1.2.

Q. Relative to the difficulty factors that are typically assigned to other buildings at issue, is 1.2 an average

difficulty factor?

A. For areas where you are going to

have a lot of tunneling access through the areas, 1.2 is a typical factor that will be used.

Q. What does that mean, "tunneling through the areas"?

A. In setting up a work area, you very often have to have access through the work area and also very often have to carry utilities through the work areas to -- or reroute utilities so they are servicing an adjacent area.

All that is very expensive, and therefore for these type of areas where public access is an everyday thing we usually assign a difficulty factor of 1.2, 1.3 or such.

Q. I also see that Mr. Thorve did assign dollar attributions to the cost of scaffolding. That's reflected on the two pages whose Bates numbering ends in 590 and 591?

A. He did show the square feet of scaffolding which would be required and also

showed the extra plywood that would be required to the scaffolding.

Q. The plywood figures are also in square footage?

A. Yes.

Q. These are not dollar amounts?

A. No.

Q. Was there any rolling scaffolding --

A. No.

Q. -- contemplated by Mr. Thorve?

A. Apparently not, based upon my printout of the form.

Q. Rolling scaffolding is appropriate in areas where ceiling heights are not very great, correct?

A. Yes.

Q. With one exception, every single one of the 70 Thorve fireproofing work areas has 17 or fewer feet in height. Do you see that?

A. Yes.

Q. Is that not suitable for rolling scaffolding?

A. Rolling scaffolding also has to do with the size of the areas. When you start

to pick out large areas, it's probably less expensive to go with standard scaffolding.

Q. Why?

A. Because you could build a scaffolding and people can work in the area for a while. You are not limited to rolling scaffolding being moved, being in an area and moved, constantly moved. You are better off with the fixed scaffolding in a larger area.

In a smaller area, rolling scaffolding is often better simply because you need some access on the floor and it allows you to move around the area to service the asbestos removal.

Q. We have seen in Exhibit 6 the dimensions of the Kondakjian work areas, correct?

A. Yes.

Q. We now see in Exhibit 10 the dimensions of the Thorve work areas, correct?

A. Yes.

Q. I understand why the width and

24 the length dimensions are different. That has

25 to do with Thorve designating but 70

fireproofing work areas where Mr. Kondakjian has designated 196 fireproofing work areas. What troubles me is why the difference in height between the Kondakjian dimensions and the Thorve dimensions? Can you explain that?

MR. CAMPBELL: For which work areas?

MR. SILVERMAN: Generally speaking.

A. (No response)

Q. For instance, on Exhibit 10 there appears to be a run of 14-foot high ceiling work areas from Work Area 1 through about Work Area 13. Then there's another run of 17-foot high ceilings that goes from Work Area 14 through about Work Area 32.

Following that there is a run of 15-foot high ceilings going from Work Area 34 to about Work Area 59. I don't see any such pattern in Exhibit 6.

A. Well, I'm looking at it from the point of view that if you take the first floor

here, they are all 14 feet. Now this first

floor in Exhibit 10 would relate to the minus

one floor in Exhibit 6, and the minus one floor in Exhibit 6, they are all 15 feet, almost all 15 feet.

Q. Are they all bunched together in the same way that the first floor work areas are bunched together on Thorve's printout?

MR. CAMPBELL: Objection.

A. Mostly. I'm looking at Exhibit 6, and they are mostly in one area, so instead of 16, Mr. Thorve had -- no, instead of 15 and 16, he has it as 14. If you look at the second floor, which are noted as 17-feet high in Exhibit 10, they would be the first floor and these are 15 to 20. Now --

Q. As reflected on Exhibit 6?

A. Yes, and Exhibit 6 also has 17 feet on a lot of their first floor, which would be Exhibit 10's second floor.

Q. Why are the floor designations off?

A. The floor designations in Exhibit 6 are minus one, one, two, three, and

they probably reflect a little better what's in the field. The floor designations on

Exhibit 10 are one, two, three, four, with one being the minus one of Exhibit 6. To me, it's not confusing. It's just what they used as notation.

So I think what Mr. Thorve did was on his second floor, which is the first floor -- which is the first floor in Exhibit 6 and is the floor that's at the tarmac level or the level of the plane wheels -- outside plane wheels, he averaged out using the 14 feet, 15 feet and 17 feet, and he averaged out his ceiling height at 17 feet. He just used one height. I think that's the main difference in the estimates. Otherwise, they are not that different.

Q. Did Mr. Thorve present you with a draft of his 1996 cost estimate?

A. No.

Q. When he submitted to you for review his cost estimate and you undertook an extensive review of it as you testified earlier, did you provide him with any feedback or

comments of any kind?

A. No.

Q. Did you approve of his methodology?

A. Yes.

Q. Did you concur in his findings?

A. Yes.

Q. Did you instruct him to in any way revise, amend or change his cost estimate?

A. No.

Q. Did you in turn submit it for review by Mr. Bialik?

A. We submitted it to Mr. Bialik. What our experience was was that we would not get any comments back.

Q. And, in fact, did you?

A. No.

Q. Did you ever receive comments or feedback of any kind from anyone at the Port Authority's Law Department concerning Mr. Thorve's 1996 cost estimate prepared in connection with Building 53?

A. No.

Q. Was there anything about Mr.

Thorve's report that gave you concern?

A. No.

Q. Was there anything about it that you felt might make it less easily defensible in this litigation?

MR. CAMPBELL: Object to the form.

A. No.

Q. Did you, in essence, approve of his cost estimate prior to the submission to Mr. Bialik?

A. Yes.

Q. Did anyone else at the Port Authority approve of his cost estimate before it was submitted to Mr. Bialik?

A. No.

Q. I will ask the court reporter to mark as JFK Building 53 Damages Exhibit 11 a series of stapled construction drawings that have been Bates stamped on the extreme lower right-hand corner with a range of numbers from PA0276842 through and including PA0276867 with an additional drawing Bates stamped PA0276903 inserted between 847 and 848.

(Thereupon, a series of stapled construction drawings with Bates numbers

PA0276842 through and including PA0276867 with an additional drawing Bates stamped PA0276903 inserted between 847 and 848 were marked JFK Building 53 Damages Exhibit 11 for identification.)

Q. Mr. Kirshner, I set before you a series of drawings that have been marked JFK Building 53 Damages Exhibit 11. Have you seen these drawings before?

A. These drawings or similar drawings before, yes.

Q. What are they?

A. They are drawings which show areas that have been abated and also sample numbers and sampling locations so that the person doing the cost estimate could determine whether the material in an area was asbestos or not. The drawings starting with Bates No. 846 start to show some of the work areas. These are the work areas that relate to the 1996 estimate.

Q. I see Work Area 1 is reflected

on Drawing 846?

A. Right.

Q. Work Areas 2 and 3 are reflected on Drawing 847, correct?

A. Yes.

Q. Work Areas 4 through 9 are reflected on Drawing 848, correct?

A. Correct.

Q. Work Areas 10 and 11 are reflected on Drawing 849, correct?

A. Yes.

Q. Work Areas 12 and 13 are reflected on Drawing 850?

A. Yes.

Q. Work Areas 14, 15 and 16 are reflected on Drawing 851?

A. Yes.

Q. Work Areas 17 and 18 are reflected on Drawing 852?

A. Yes.

Q. Work Areas 19 through 22 on Drawing 853?

A. Yes.

Q. Work Areas 23 through 26 on

Drawing 854?

A. Yes.

Q. Work Areas 27, 28 and 29 on Drawing 855?

A. Yes.

Q. Work Areas 30, 31 and 32 on Drawing 856?

A. Yes.

Q. Work Areas 33 through 35 on Drawing 857?

A. Yes.

Q. Work Areas 36 through 38 including 38A on Drawing 858?

A. Yes.

Q. Work Areas 39 through 41 on Drawing 859?

A. Yes.

Q. Work Areas 42 through 45 on Drawing 860?

A. Yes.

Q. Work Areas 46 through 49 on Drawing 861?

A. Yes.

Q. Work Areas 50 through 54 on

Drawing 862?

A. Yes.

Q. Work Areas 55 through 59 on Drawing 863?

A. Yes.

Q. Work areas 60 through 63 on Drawing 864?

A. Yes.

Q. Work areas 64 on Drawing 865, area?

A. Yes.

Q. Work Areas 65 through 68 on Drawing 866?

A. Yes.

Q. And finally Work Area 69 on Drawing 867?

A. Yes.

Q. This, then, is a complete set of the drawings that accompanied Mr. Thorve's 1996 cost estimate for JFK Building 53?

A. Yes.

Q. Since July 18, 1996, the date of the Thorve cost estimate, has it ever been revised, amended or changed in any way?

A. No.

Q. Is there a plan within the Port

Authority to undertake such a revision or an amendment of Mr. Thorve's 1996 cost estimate?

A. No.

MR. SILVERMAN: I have no further questions at this time.

MR. CAMPBELL: The deposition is closed.

(Time noted: 3:55 p.m.)

A C K N O W L E D G M E N T

STATE OF NEW YORK)
:ss
COUNTY OF)

I, MARVIN KIRSHNER, hereby certify that I have read the transcript of my testimony taken under oath in my deposition of January 6, 1997; that the transcript is a true, complete and correct record of what was asked, answered and said during this deposition, and that the answers on the record as given by me are true and correct.

MARVIN KIRSHNER

Signed and subscribed to before me, this day of , 1997.

Notary Public

C E R T I F I C A T E

I, CHERYLL KERR, hereby certify that the Examination Before Trial of MARVIN KIRSHNER was held before me on January 6, 1997;

That said witness was duly sworn before the commencement of his testimony;

That the within testimony was stenographically recorded by myself, and is a true and accurate record of the Examination Before Trial of said witness;

That the parties herein were represented by counsel as stated herein;

That I am not connected by blood or marriage with any of the parties. I am not interested directly or indirectly in the matter in controversy, nor am I in the employ of any of the counsel.

IN WITNESS WHEREOF, I have hereunto set my hand this 6th day of January, 1997.

25

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

PA/ TENANT	JOB #	CONTRACT/ TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	AMD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AMD PLACARD #	BUDGETED
[redacted]															

P 510437

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

PA/ TENANT	JOB #	CONTRACT/ TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	AMD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AMD PLACARD #	BUDGETED
[redacted]															

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

PA/ TENANT	JOB #	CONTRACT/ TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	AMD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AMD PLACARD #	BUDGETED
PA	215.115		JFK	54		PAN AMERICAN, OUTBOUND CONVEYOR	DSI INDUSTRIES, ENVIRONMENTAL DIVISION	B. KUCHYNSKAS	/ /	ON HOLD	Y	N	/ /		N
[redacted]															
PA	215.204	215.600	JFK	54	1ST	TERMINAL 1A - GROUND FLOOR MECHANICAL EQUIPMENT ROOM	PROJECT DEVELOPMENT GROUP		/ /	ON HOLD	Y	N	/ /		N
[redacted]															
T	215.215	Y-6514 A	JFK	#53 & 54	3RD	DELTA AIRLINES - INTERIOR SIGNS AND SECURITY PROJECTS	GUARANTEED CLEAN AIR	?	08/03/92	IN PROGRESS	Y	N	/ /	JFK-154-92	

P 510439

EPM - 42

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

PA/ TENANT	JOB #	CONTRACT/ TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	AMD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AMD PLACARD #	BUDGETED
[redacted]															
T	215.218	Y-6522 A	JFK	53	3RD	DELTA AIRLINES - EXTERIOR VESTIBULES	GUARANTEED CLEAN AIR	D. BOURNIAS	09/14/92	IN PROGRESS		Y N	/ /	JFK-157-92	N
T	215.221	Y-6526 A	JFK	53 & 54	ROOF	DELTA AIRLINES - ROOF RENOVATIONS	GUARANTEED CLEAN AIR		09/03/92	IN PROGRESS		Y N	/ /	JFK-156-92	N
[redacted]															

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

P 510440

2

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

PA/ TENANT	JOB #	CONTRACT/ TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	AMD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AMD PLACARD #	BUDGETED
[redacted]															
T		Y-6469	JFK	53	CONCOURSE	DUTY FREE SHOPS CABLE INSTALLATION			/ /	PLANNING	N	N	/ /		N
[redacted]															

P 510441

OEPM - 42

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

ASBESTOS MANAGEMENT DIVISION
AVIATION DEPARTMENT
ABATEMENT ACTIVITIES MONITORING REPORT

PA/ TENANT	CONTRACT/ JOB #	TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	AMD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AMD PLACARD #	BUDGETED
[redacted]															

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

PORTS DEPARTMENT

ASBESTOS MANAGEMENT DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

PA/ TENANT	JOB #	CONTRACT/ TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	AMD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AMD PLACARD #	BUDGETED
[redacted]															

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

PORTS DEPARTMENT

ASBESTOS MANAGEMENT DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

PA/ TENANT	JOB #	CONTRACT/ TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	AMD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AMD PLACARD #	BUDGETED
[redacted]															

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

173 records

PORT AUTHORITY

[redacted]

74

[redacted]

[redacted]

PORT AUTHORITY

[redacted]

AV' 'ON NI, BLDG 54	Hanger 12 and boiler room adjacent to Hanger 12	215.015	Hanger Area and Boiler Room	nba6	Asbestos Removal Corp.	16500.00 06/13/88	PT	
AVIATION JFK BLDG 53	Pan Am World Port Terminal 'A'	215.016	duty free shop-International Shoppers present tenant	y5956	Enviorsafe	40000.00 05/20/88	PT	New Retail Shop

[redacted]

AVIATION JFK BLDG 53	Pan Am Concourse level	215.022	Pan Am WorldPort - retail stores Hudsons' shop	y5980	ATC Enviormental Inc.	30000.00 10/10/88	PT	New Retail Shop

[redacted]

PORT AUTHORITY
ASBESTOS ABATEMENT PROJECTS

Department Facility and Building	Area	Job Number	Space Type and Use	Contract # PO #	Contractor	Estimated	Estimated	Job	Reason for

PORT AUTHORITY
ASBESTOS ABATEMENT PROJECTS

Department Facility and Building	Area	Job Number	Space Type and Use	Contract # PO # Work Ord #	Contractor	Estimated Cost	Estimated Start Date	Job Type	Reason for Abatement
[redacted]									
AVIATION JFK BLDG 53	Pan Am Old Texas Lounge	215.887	Counters & Conveyors	y5981	Aped Co. Inc.	12000.00	06/08/88		New Ticket Counter & Conveyor
[redacted]									

PORT AUTHORITY
ASBESTOS ABATEMENT PROJECTS

Department Facility and Building	Area	Job Number	Space Type and Use	Contract # PO # Work Order #	Contractor	Estimated Cost	Estimated Start	Job	Reason for
[redacted]									

nc

PORT AUTHORITY
ASBESTOS ABATEMENT PROJECTS

Department Facility and Building	Area	Job Number	Space Type and Use	Contract # PO # Work Ord #	Contractor	Estimated Cost	Estimated Start	Job Type	Reason For Abatement
[redacted]									

PORT AUTHORITY
ASBESTOS ABATEMENT PROJECTS

Department Facility and Building	Area	Job Number	Space Type and Use	Contract # PO #	Contractor	Estimated Cost	Estimated Start	Job Type	Reason For Abatement
[redacted]									

PORT AUTHORITY
ASBESTOS ABATEMENT PROJECTS

Department Facility and Building	Area	Job Number	Space Type and Use	Contract # PO # Work Ord #	Contractor	Estimated Cost	Estimated Start	Job Type	Reason For
[redacted]									

PORT AUTHORITY
ASBESTOS ABATEMENT PROJECTS

Department Facility and Building	Area	Job Number	Space Type and Use	Contract # PO #	Contractor	Estimated Cost	Estimated Start	Job Type	Reason For
[redacted]									

PORT AUTHORITY
ASBESTOS ABATEMENT PROJECTS

Department Facility and Building	Area	Job Number	Space Type and Use	Contract # PO # Work Ord #	Contractor	Estimated Cost	Estimated Start	Job Type	Reason For Abatement

Department
Facility and

Area

PORT AUTHORITY
ASBESTOS ABATEMENT PROJECTS

[redacted]

PORT AUTHORITY

[redacted]

PORT AUTHORITY
ASBESTOS ABATEMENT PROJECTS

[redacted]

PORT AUTHORITY
ASBESTOS ABATEMENT PROJECTS

[redacted]

PORT AUTHORITY
ASBESTOS ABATEMENT PROJECTS

Department Facility and Building	Area	Job Number	Space Type and Use	Contract # PO # Work Ord #	Contractor	Estimated Cost	Estimated Start Date	Job Type	Reason For Abatement
[redacted]									

P 546387

Abatement Projects

JFK

[redacted]

Abatement Projects

JFK CONTINUED

[redacted]

Pan Am Building 53, Concourse Level, Refugee Lounge - 215.125	JFK-026-90	Completed

[redacted]

Abatement Projects

JFK CONTINUED

[redacted]

Pan Am Mrs. Field's Cookie Shop, Building 53 - 215.147	JFK-053-90	Completed

[redacted]

B-U-C-K-S-L-I-P

To: Dick
From: Kelly
Date: August 17, 1990
Subject: Asbestos Abatement Status Report For The Period Ending August 17, 1990.

cc: Chris

Department	Avia.	Port	Rail	TB&T	WT/ED	Total
Planning	29	9	0	6	19	66
On Going						
PA	3	0	1	3	1	8
TAA	4	0	0	0	0	4
						78

Kelly

P 599987

ON GOING ABATEMENT

CNT	STATUS	DEPT	FACILITY	BUILDING	LOCATION	CONTRACTOR	JOB NUMBER	CONTRACT NUM	CONTRACT MONITOR
[redacted]									
1	ONGOING	AVIATION	JFK	BLDG 54	LOTS 4 & 5 PAN AM TERMINAL B OUTSIDE TRENCH	OGDEN/DECONTAMINATION SRV	215.523	JFK 215.500	A. KUMAS
[redacted]									

RPP- 44

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

CONTRACT /		START		USEPA	WASTE DOCUMENT	DATE	AM&CD
[redacted]							
215.071	JFK - BLDG. # 53, PAN AM GATE 9, PASSENGER WAITING AREA	APED	K. GOSS	/ /	COMPLETED (Y6123A).	N Y	/ / N
[redacted]							

NOTE: SEARCH'S DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

P 599989

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
[redacted]											

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
[redacted]											

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

P 599991

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
							↓	↓			
215.022		JFK - BUILDING # 53 HUDSON	ENVIRO SAFE		/ /	COMPLETED.	Y	Y	/ /		N
215.059		JFK - BUILDING # 53, PAN AMERICAN CANOPIES	BRIDGE TECH. / APED	D. SAMUELS	/ /	COMPLETED.	Y	Y	/ /	JFK-010-90	N

[redacted]

P 599992

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED

P 599993

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

RPP-4

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
[redacted]											
215.087		JFK - PAN AM, BUILDING # 53 EAST CUSTOMS AREA	DSI IND., ENV. DIV.	K. GOSS	/ /	COMPLETED.	Y	Y	/ /		N
215.125		JFK - PAN AM, BUILDING # 53, CONCOURSE LEVEL REFUGEE LOUNGE	ADVATEX	B. KUCHYNSCAS	/ /	COMPLETED.	Y	N	/ /	JFK-026-90	N
215.115		JFK - PAN AMERICAN, BUILDING # 54, OUTBOUND CONVEYOR	DSI IND., ENV. DIV.	B. KUCHYNSKAS	/ /	ON HOLD.	Y	N	/ /	.	N
[redacted]											
215.050		JFK - PAN AMERICAN, WORLD PORT EAST/WEST CONCOURSE	APED	K. GOSS	/ /	COMPLETED.	Y	Y	/ /		N
[redacted]											

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
[redacted]											

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

P 599995

RPP-4

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED

[redacted]

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
[redacted]											

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
[redacted]											

P 599998

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

RPP- 4

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED

[redacted]

P 599699

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
[redacted]											

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

Page No. 1
08/17/90

PORTS DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
[redacted]											

P 600001

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

RPP-4

PORTS DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
[redacted]											

P 600002

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

PORTS DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
[redacted]											

P 600003

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

B-U-C-K-S-L-I-P

To: Dick
From: Kelly
Date: August 6, 1990
Subject: Asbestos Abatement Status Report For The Period Ending August 3, 1990.

cc: Chris

Department	Avia.	Port	Rail	TB&T	WT/ED	Total
Planning	22	9	1	8	19	50
On Going						
PA	3	0	0	1	1	5
TAA	2	0	0	0	0	2
						57

Page No. 1
08/06/90

ON GOING ABATEMENT

CNT	STATUS	DEPT	FACILITY	BUILDING	LOCATION	CONTRACTOR	JOB NUMBER	CONTRACT NUM	CONTRACT MONITOR
[redacted]									
1	ONGOING	AVIATION	JFK	BLDG 54	PAN AM TERMINAL B OUTSIDE TRENCH	OGDEN/DECONTAMINATION SRV	215.523	JFK 215.500	A. KUMAS

** Subtotal **
5

[redacted]

P 600085

Page No. 1
08/03/90

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JO	CONTRACT /	START	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
[redacted]							
215.071	JFK - BLDG. # 53, PAN AM GATE 9, PASSENGER WAITING AREA APED	K. GOSS / /	COMPLETED (10125A).				
[redacted]			N N	/ /			N

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

P 600086

RPP- 4

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
[redacted]											
215.022		JFK - BUILDING # 53 HUDSON	ENVIRO SAFE		/ /	COMPLETED.	Y	Y	/ /		N
215.059		JFK - BUILDING # 53, PAN AMERICAN CANOPIES	BRIDGE TECH. / APED	D. SAMUELS	/ /	COMPLETED.	Y	Y	/ /	JFK-010-90	N

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

P 600088

RPP- 4

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

[redacted]

				START		USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
215.087	JFK - PAN AM, BUILDING # 53 EAST CUSTOMS AREA	DSI IND., ENV. DIV.	K. GOSS	/ /	COMPLETED.					
215.125	JFK - PAN AM, BUILDING # 53, CONCOURSE LEVEL REFUGEE LOUNGE	ADVATEX	B. KUCHYNSCAS	/ /	COMPLETED.	Y N		/ /	JFK-026-90	N
215.115	JFK - PAN AMERICAN, BUILDING # 54, OUTBOUND CONVEYOR	DSI IND., ENV. DIV.	B. KUCHYNSKAS	/ /	ON HOLD.	Y N		/ /		N

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

P 600090

Page No. 6
08/03/90

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
[redacted]											

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

JOB NUMBER	CONTRACT / P.O. NUMBER	FACILITY	CONTRACTOR	AM&CD AST	START DATE	REMARKS	USEPA NOTIFICATION *	WASTE DOCUMENT RETURNED *	DATE COMPLETED	AM&CD PLACARD #	BUDGETED
[redacted]											

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

JUL 08 1987

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY

To: ~~JFKIA~~ JFK

M E M O R A N D U M

TO: Pantelis D. Mourges, Manager, Plant and Structures Division, JFKIA
FROM: Harry R. Pool, Jr.
DATE: July 7, 1987
SUBJECT: ASBESTOS BULK SAMPLE ANALYSIS - PAN AM BUILDING-53 JOB A3-100-509

COPY TO: N. Budeiri, J. Darcy, R. Fagin, M.D., J. Gallagher, S. Samperi

Analysis of bulk asbestos samples from the subject areas revealed the following:

Sample labled KIA-#1-KIA "Pam Am Building #53 Job A3-100-509-9-10 EM Beam col 9-10 E". Sample consisted of chrysotile asbestos fibers (15%) mica, calcium carbonate, gypsum and fibrous glass.

Sample labled KIA #2 - "Pan Am/53". Sample consisted of chrysotile asbestos fibers (15%) mica, calcium carbonate gypsum and fibrous glass.

Sample labled KIA#3 "Pan Am/Building 53". Sample consisted of chrysotile asbestos fibers (15%) mica, calcium carbonate, gypsum and fibrous glass.

Therefore all product samples analyzed are considered to be asbestos containing materials (ACM).

If you have any questions, call me at PATHside (201) 963-7476.

Harry Pool

Harry R. Pool, Jr., Supervisor
Environmental Programs
Inspection and Safety Division

AEK/sw

COST ESTIMATE

BUILDING 53 - PAN AM AIRLINES TERMINAL

Removal of all asbestos-containing materials in Priority Level I and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$9,904,136
10% Contingency	$990,414
Total Removal/Replacement with Contingency	$10,894,550

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 6.5% of Total Construction Cost:

6.5% X $10,894,550 — $708,146

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 1,890 8-hour shifts:

1,890 X $490 — $926,100

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $10,894,550 — $21,789

Total Project Estimate Including Professional Fees and Contingency — $12,550,585

P 702759

COST ESTIMATE

BUILDING 53 - PAN AM AIRLINES TERMINAL

Removal of all asbestos-containing materials in Priority Level II and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$5,440,184
10% Contingency	$544,018
Total Removal/Replacement with Contingency	$5,984,202

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 6.5% of Total Construction Cost:

6.5% X $5,984,202 — $388,973

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 1,038 8-hour shifts:

1,038 X $490 — $508,620

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $5,984,202 — $119,684

Total Project Estimate Including Professional Fees and Contingency — $7,001,479

P 702760

COST ESTIMATE

BUILDING 53 - PAN AM AIRLINES TERMINAL

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$25,170,237
10% Contingency	$2,517,024
Total Removal/Replacement with Contingency	$27,687,261

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 6.5% of Total Construction Cost:

6.5% X $27,687,261 — $1,799,672

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 4,803 8-hour shifts:

4,803 X $490 — $2,353,470

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $27,687,261 — $553,745

Total Project Estimate Including Professional Fees and Contingency — $32,394,148

P 702761

COST ESTIMATE

BUILDING 53 - PAN AM AIRLINES TERMINAL

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$1,365,845
10% Contingency	$136,585
Total Removal/Replacement with Contingency	$1,502,430

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 6.5% of Total Construction Cost:

6.5% X $1,502,430 $97,658

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 261 8-hour shifts:

261 X $490 $127,890

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $1,502,430 $30,049

Total Project Estimate Including Professional Fees and Contingency $1,758,027

P 702762

PHOTOGRAPH LOG

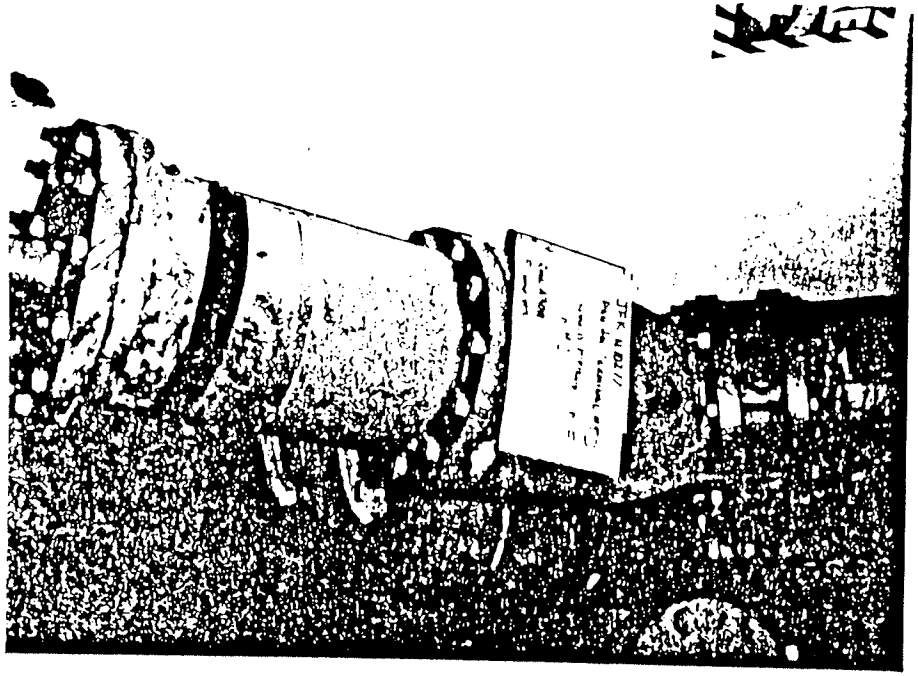
BUILDING 53 - PAN AM TERMINAL

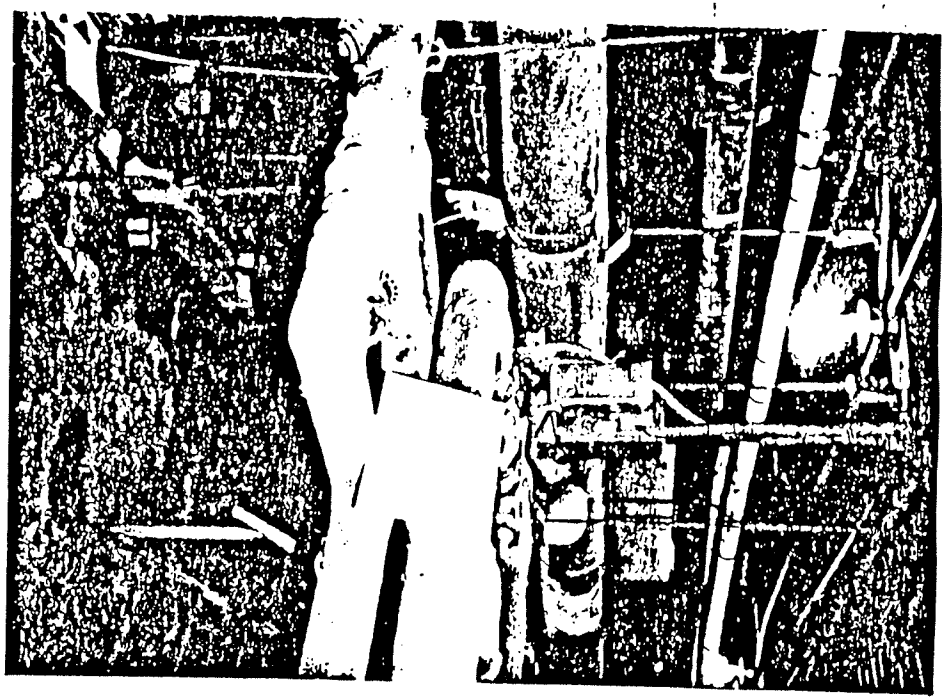
Picture #	Description
1	Pan Am Terminal, Old North Building, roof, penthouse mechanical room, exposed piping.
2	Pan Am Terminal, New Building, Apron Level, MER 2, exposed piping.
3	Pan Am Terminal, New Building, First Level, MER 1.
4	Pan Am Terminal, New Building, Apron Level, baggage handling area.
5	Pan Am Terminal, New Building, Apron Level, Gate 23 jetway, fireproofing.
6	Pan Am Terminal, New Building, Ground Level, MER 1, exposed piping and tank insulation
7	Pan Am Terminal, Old Building, Basement, MER 6, exposed piping.
8	Pan Am Terminal, Ground Level, Baggage Claim D-1, 2' by 2' lay-in ceiling panels.
9	Pan Am Terminal, New building, Fourth Floor, penthouse, return air plenum.

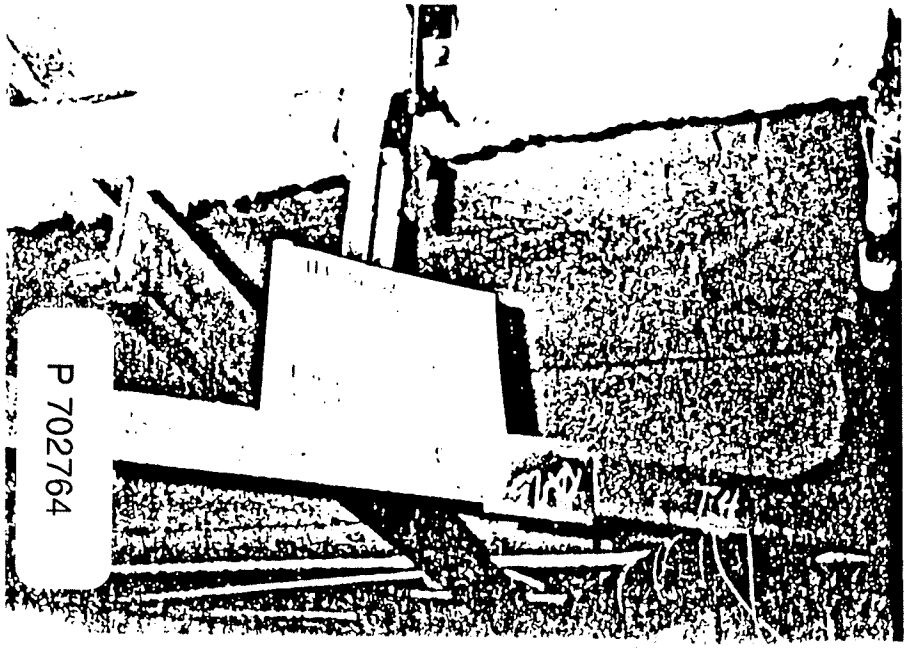
P 702763

C-LINE #52584
35MM PRINTS

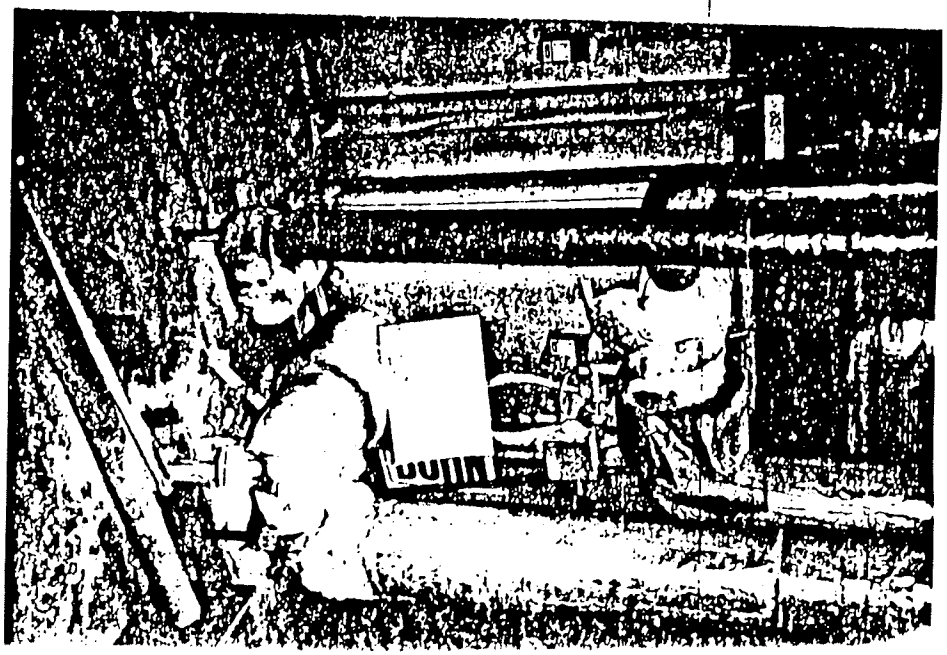
#3







P 702764



53

5

7

6

8

C-LINE #52584
35MM PRINTS

P 702765

53

9

C-LINE #52584
35MM PRINTS

P 702766

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 05

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	T
20 -174688	Y	Y	60	25	35								30	10 COT	
20 -174689	Y	Y	30	15	15				30				30	10 COT	
21 -174690	Y	N	0						55				35	10 COT	
21 -174691	Y	N	0						55				35	10 COT	
21 -174692	Y	N	0						55				35	10 COT	
22 -174693	Y	N	0						60				30	10 COT	
22 -174694	Y	N	0						55				35	10 COT	
22 -174695	Y	N	0						60				30	10 COT	
23 -174696	Y	N	0						60				40		
23 -174697	Y	N	0						65				35		
23 -174698	Y	N	0						55				45		
24 -187501	Y	N	0						60				40		
24 -187502	Y	N	0						65				35		
24 -187503	Y	N	0						60				40		
25 -187504	Y	Y	60	60									40		
25 -187505	Y	Y	40	40									60		
25 -187506	Y	Y	40	40									60		
26 -187507	Y	Y	15	15							20		65		
26 -187508	Y	Y	10	10							30		60		
26 -187509	Y	Y	5	5							30		65		
26 -187510	Y	Y	5	5							35		60		
26 -187511	Y	Y	10	10							40		50		
27 -187512	Y	N	0						45				45	10 GM	
27 -187513	Y	N	0						45				45	10 GM	
27 -187514	Y	N	0						40				50	10 GM	
28 -187515	Y	N	0						50				50		
28 -187516	Y	N	0						55				45		
28 -187517	Y	N	0						50				50		
29 -187518	Y	Y	20	20							30		50		
29 -187519	Y	Y	15	15							30		55		
29 -187520	Y	Y	10	10							35		55		
29 -187521	Y	Y	20	20							30		50		
29 -187522	Y	Y	20	20							35		45		
29 -187523	Y	Y	20	20							25		55		
29 -187524	Y	Y	30	30							25		45		
29 -187525	Y	Y	25	25							30		45		
30 -187526	Y	N	0						40				60		
30 -187527	Y	N	0						45				55		
30 -187528	Y	N	0						40	20			40		
0 -187529	N	Y	40	40						40			20		
31 -187530	Y	N	0						40	10			50		
31 -187531	Y	N	0						35	10			55		
31 -187532	Y	N	0						35	10			55		
32 -187533	Y	N	0						30	5			65		
32 -187534	Y	N	0						35	5			60		
32 -187535	Y	N	0						35	10			55		
33 -187536	Y	N	0						30	10			50	10 GM	
33 -187537	Y	N	0						30	10			50	10 GM	
33 -187538	Y	N	0						30	10			50	10 GM	
34 -187539	Y	Y	10	10							40		50		
34 -187540	Y	Y	10	10							45		45		
34 -187541	Y	Y	10	10							30		60		
34 -187542	Y	Y	5	5							45		50		
34 -187543	Y	N	0								25		75		
34 -187544	Y	Y	15	15							20		65		
34 -187545	Y	N	0							30	50		20		
0 -187546	N	N	0						45				55		
0 -187547	N	N	0						20	40		25	15		
0 -187548	N	Y	40		40					30			30		
35 -187549	Y	Y	45	25	20					10			45		
35 -187550	Y	Y	60	30	30					10			30		
35 -187551	Y	Y	45	25	20								55		
36 -187552	Y	N	0						30				70		
36 -187553	Y	Y	5	5					30				65		
36 -187554	Y	N	0						60				40		
37 -187555	Y	Y	25	25									75		
37 -187556	Y	Y	60	40	20				20				20		
37 -187557	Y	Y	25	25					20				55		
0 -187558	N	Y	15	15							70		15		

P 702767

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 053

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS				OTHER MATERIALS						T
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER	
44 -187630	Y	Y	10	10							60		30		
44 -187631	Y	Y	10	10							70		20		
44 -187632	Y	Y	8	8							62		30		
44 -187633	Y	Y	12	12							68		20		
44 -187634	Y	Y	15	15							65		20		
44 -187635	Y	Y	15	15							45		40		
44 -187636	Y	Y	8	8							62		30		
44 -187637	Y	N	0								60		40		
44 -187638	Y	Y	12	12							75		13		
44 -187639	Y	Y	15	15							65		20		
44 -187640	Y	Y	10	10							65		25		
44 -187641	Y	Y	15	15							60		25		
44 -187642	Y	Y	10	10							60		30		
44 -187643	Y	Y	15	15							60		25		
0 -187644	N	N	0						80				20		
44 -187645	Y	Y	10	10							60		30		
44 -187646	Y	Y	12	12							55		33		
44 -187647	Y	Y	25	25							45		30		
44 -187648	Y	Y	30	30							30		40		
44 -187649	Y	Y	25	25							25		50		
44 -187650	Y	Y	15	15							35		50		
44 -187651	Y	Y	8	8							62		30		
44 -187652	Y	Y	2	2							58		40		
44 -187653	Y	Y	3	3							47		50		
44 -187654	Y	Y	2	2							68		30		
0 -187655	N	N	0						85				15		
0 -187656	N	N	0						80				20		
0 -187657	N	N	0						70				30		
0 -187696	N	Y	2	2									18	80 CAL	
0 -187697	N	Y	2	2									18	80 CAL	
0 -187698	N	Y	2	2									15	83 CAL	
0 -187699	N	Y	2	2									18	80 CAL	
0 -187700	N	Y	2	2									18	80 CAL	

P 702768

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 14

Building Number: 053
Building Name: PAN AM AIRLINES TERMINAL JFK AIRPORT
Building Type: TERMINAL
Constructed: 1960
Inspected: 04/11/88
Inspector: D. L. Stephens

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	ARA	New Addition-Apron Level-Ceiling												
							AREA AVERAGE % ASB -		0%					
		men's locker room	187656-0	acoustical tile	OMG	150	sq.ft.		0					
		cafeteria area	187656-0	acoustical tile	OMG	3950	sq.ft.		0					
		kitchen dry goods storage	187656-0	acoustical tile	OMG	300	sq.ft.		0					
											AREA TOTAL	$0	$0	$0
02	ARA	New Addition-Apron Level												
							AREA AVERAGE % ASB -		0%					
		kitchen by conveyor shop	174693-22	mjp on non-suspect pipe cover	OMA	8	4 in. O.D.	DW	0					
		kitchen and cafeteria	174693-22	mjp on non-suspect pipe cover	OMA	18	4 in. O.D.	DW	0					
		kitchen storage	174693-22	mjp on non-suspect pipe cover	OMA	29	4 in. O.D.	DW	0					
			174694-22	mjp on non-suspect pipe cover	OMA				0					
			174695-22	mjp on non-suspect pipe cover	OMA				0					
		kitchen dry goods storage	187515-28	mjp on non-suspect pipe cover	OMA	6	4 in. O.D.	HWS/R	0					
			187516-28	mjp on non-suspect pipe cover	OMA				0					
			187517-28	mjp on non-suspect pipe cover	OMA				0					
											AREA TOTAL	$0	$0	$0
							TENANT - ARA		TOTAL			$0	$0	$0

P 702769

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
04	DUTY FREE — Madison Ave Shop-New Addition-Outbound					AREA AVERAGE % ASB - 9%							
	above the grid ceiling in store	187596-42	fireproofing	OMC	1200	sq.ft.		10	36	III	$43,332	$8,016	$51,348
		187597-42	fireproofing	OMC				15	36	III			
		187598-42	fireproofing	OMC				10	36	III			
		187599-42	fireproofing	OMC				10	36	III			
		187608-42	fireproofing	OMC				2	36	III			
		187609-42	fireproofing	OMC				4	36	III			
		187610-42	fireproofing	OMC				10	36	III			
		187611-42	fireproofing	OMC				10	36	III			
		187612-42	fireproofing	OMC				6	36	III			
		187613-42	fireproofing	OMC				10	36	III			
	The material in this area is fireproofing on structural members located above the open grid ceilings. The material is friable, but has been encapsulated and at this time has a lower potential for fiber release than other non encapsulated fireproofing located on this level.										AREA TOTAL	$43,332	$8,016	$51,348
											TENANT - DUTY FREE TOTAL	$43,332	$8,016	$51,348

P 702771

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
05	FOOD SERV — Old Building-Mezzanine Level-Ceilings							AREA AVERAGE % ASB - 0%					
	rest rooms behind snack bar	187655-0	drop or lay-in panel	OMG	1100	sq.ft.		0					
	snack bar kitchen	187655-0	drop or lay-in panel	OMG	800	sq.ft.		0					
								AREA TOTAL			$0	$0	$0
								TENANT - FOOD SERV TOTAL			$0	$0	$0

P 702772

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 14

Building Number: 053 Page 5
Building Name: PAN AM AIRLINES TERMINAL JFK AIRPORT
Building Type: TERMINAL
Constructed: 1960
Inspected: 04/11/88
Inspector: D. L. Stephens

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
06	GORMET MKT — New Addit.-Outbound Level-Market Place					AREA AVERAGE % ASB - 9%							
	above the grid ceiling in store	187596-42	fireproofing	OMC	900 sq.ft.			10	63	I	$32,499	$6,012	$38,511
		187597-42	fireproofing	OMC				15	63	I			
		187598-42	fireproofing	OMC				10	63	I			
		187599-42	fireproofing	OMC				10	63	I			
		187608-42	fireproofing	OMC				2	63	I			
		187609-42	fireproofing	OMC				4	63	I			
		187610-42	fireproofing	OMC				10	63	I			
		187611-42	fireproofing	OMC				10	63	I			
		187612-42	fireproofing	OMC				6	63	I			
		187613-42	fireproofing	OMC				10	63	I			
		187613-42	fireproofing	OMC				10	63	I			
	The material in this area is fireproofing on structural members with overspray on the decking. The material is located above a grid ceiling. The material is friable and prone to fiber release and fallout.										$32,499	$6,012	$38,511
						TENANT - GORMET MKT			TOTAL		$32,499	$6,012	$38,511

P 702773

AREA #	TENANT AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
06A	HARRIOTT New Addition-Outbound Level-Ceilings												
						AREA AVERAGE % ASB -		0%					
	kitchen area	187547-0	drop or lay-in panel	OMG	800	sq.ft.		0					
	transit lounge	187644-0	drop or lay-in panel	OMG	1200	sq.ft.		0					
	kitchen area	187656-0	acoustical tile	OMG	800	sq.ft.		0					
								AREA TOTAL			$0	$0	$0
						TENANT - HARRIOTT		TOTAL			$0	$0	$0

P 702774

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
07	PAN AM	Orig. Bld-Basement-Mechanical Room #6							AREA AVERAGE % ASB - 58%					
	at ceiling-east part of room near panel	174671-0	pipe covering	OMA	5	ft. 10 in. O.D.	HWS/R	50	122	I	$127	$94	$221
	at ceiling-east part of room near panel	174672-16	mjp on pipe covering	OMA	2	10 in. O.D.	HWS/R	70	122	I	$168	$105	$273
		174673-16	mjp on pipe covering	OMA				60	122	I			/
		174674-16	mjp on pipe covering	OMA				65	122	I			
	This area of insulation is damaged due to periodic contact being made by an access door on an electrical panel.										AREA TOTAL	$295	$199	$494
08	PAN AM	Orig. Bldg-Basement-Mechanical Room #6							AREA AVERAGE % ASB - 26%					
	throughout area	174671-0	pipe covering	OMA	75	ft. 10 in. O.D.	HWS/R	50	36	III	$1,903	$1,410	$3,313
	throughout area	174678-0	wrapped cardboard/paper pipe	OMA	135	ft. 6 in. O.D.	DW	0			$2,357	$1,474	$3,831
	throughout area	174678-0	wrapped cardboard/paper pipe	OMA	140	ft. 10 in. O.D.	DW	0			$3,553	$2,632	$6,185
	throughout area	174682-0	corrugated pipe covering	OMA	185	ft. 4 in. O.D.	DW	70	36	III	$2,220	$1,389	$3,609
		174672-16	mjp on pipe covering	OMA	15	10 in. O.D.	HWS/R	70	36	III	$1,263	$790	$2,053
		174673-16	mjp on pipe covering	OMA				60	36	III			
	throughout area	174674-16	mjp on pipe covering	OMA				65	36	III			
		174675-17	mjp on non-suspect pipe cover	OMA	55	4 in. O.D.	HWS/R	35	36	III	$2,079	$1,155	$3,234
		174676-17	mjp on non-suspect pipe cover	OMA				30	36	III			
	throughout area	174677-17	mjp on non-suspect pipe cover	OMA				0	36	III			
	throughout area	174679-18	mjp on wrapped cardboard/paper	OMA	75	12 in. O.D.	DW	0					
		174679-18	mjp on wrapped cardboard/paper	OMA	35	8 in. O.D.	DW	0					
		174680-18	mjp on wrapped cardboard/paper	OMA				0					
	throughout area	174681-18	mjp on wrapped cardboard/paper	OMA				0					
		174683-19	mjp on corrugate pipe covering	OMA	80	4 in. O.D.	DW	0					
		174684-19	mjp on corrugate pipe covering	OMA				0					
		174685-19	mjp on corrugate pipe covering	OMA				0					
	Pipe insulation in this room is in fair condition with isolated areas of contact and water damage.										AREA TOTAL	$13,375	$8,850	$22,225
09	PAN AM	Old Building-Ground Level							AREA AVERAGE % ASB - 53%					
	electrical closet off baggage claim area	174652-0	corrugated pipe covering	OMA	3	ft. 4 in. O.D.	DW	75	32	III	$36	$23	$59
	old rest room off baggage service	174652-0	corrugated pipe covering	OMA	9	ft. 4 in. O.D.	DW	75	32	III	$108	$68	$176
	valve room next to west side garage	174656-0	pipe covering	OMA	7	ft. 12 in. O.D.	HWS/R	45	32	III	$207	$159	$366

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	conveyor room behind east baggage claim	187529-0	corrugated pipe covering	OMA	3	ft. 4 in. O.D.	HWS/R	40	32	III	$36	$23	$59
	valve room next to west side garage	174657-13	mjp on pipe covering	OMA	12	12 in. O.D.	HWS/R	55	32	III	$1,225	$765	$1,990
		174658-13	mjp on pipe covering	OMA				50	32	III			
		174659-13	mjp on pipe covering	OMA				55	32	III			
	east side garage	174675-17	mjp on non-suspect pipe cover	OMA	31	4 in. O.D.	HWS/R	35	32	III	$1,172	$651	$1,823
	electrical closet off baggage claim area	174675-17	mjp on non-suspect pipe cover	OMA	10	4 in. O.D.	HWS/R	35	32	III	$378	$210	$588
	hallway ceiling heater-west side	174675-17	mjp on non-suspect pipe cover	OMA	9	4 in. O.D.	HWS/R	35	32	III	$340	$189	$529
	hallway ceiling heater-north west corner	174675-17	mjp on non-suspect pipe cover	OMA	5	4 in. O.D.	HWS/R	35	32	III	$189	$105	$294
	conveyor room behind east baggage claim	174675-17	mjp on non-suspect pipe cover	OMA	8	4 in. O.D.	HWS/R	35	32	III	$302	$168	$470
	old rest room off baggage service	174675-17	mjp on non-suspect pipe cover	OMA	9	4 in. O.D.	HWS/R	35	32	III	$340	$189	$529
	baggage service storage areas	174675-17	mjp on non-suspect pipe cover	OMA	64	4 in. O.D.	HWS/R	35	32	III	$2,419	$1,344	$3,763
		174676-17	mjp on non-suspect pipe cover	OMA				30	32	III			
		174677-17	mjp on non-suspect pipe cover	OMA				0	32	III			
	The material is in fair condition with localized areas of contact damage. These areas are accessed infrequently.							AREA TOTAL			$6,752	$3,894	$10,646
10	PAN AM Old Bldg-Ground Level-Locker Room Area							AREA AVERAGE % ASB - 31%					
	locker room past baggage service	174675-17	mjp on non-suspect pipe cover	OMA	40	4 in. O.D.	HWS/R	35	26	III	$1,512	$840	$2,352
	hallway outside LE janitorial closet	174675-17	mjp on non-suspect pipe cover	OMA	10	4 in. O.D.	HWS/R	35	26	III	$378	$210	$588
	hallway leading to west double doors	174675-17	mjp on non-suspect pipe cover	OMA	5	4 in. O.D.	HWS/R	35	26	III	$189	$105	$294
	E-W hallway off west double exit doors	174675-17	mjp on non-suspect pipe cover	OMA	4	4 in. O.D.	HWS/R	35	26	III	$151	$84	$235
	room by west side double exit doors	174675-17	mjp on non-suspect pipe cover	OMA	17	4 in. O.D.	HWS/R	35	26	III	$643	$357	$1,000
	E-W hallway off west double exit doors	174675-17	mjp on non-suspect pipe cover	OMA	1	6 in. O.D.	HWS/R	35	26	III	$52	$31	$83
	locker room past baggage service	174675-17	mjp on non-suspect pipe cover	OMA	2	6 in. O.D.	HWS/R	35	26	III	$104	$61	$165
		174676-17	mjp on non-suspect pipe cover	OMA				30	26	III			
		174677-17	mjp on non-suspect pipe cover	OMA				0	26	III			
	The material is in fair condition. These areas are accessed regularly by airline personnel. There are isolated areas of contact damage.							AREA TOTAL			$3,029	$1,688	$4,717
11	PAN AM Old Building-Ground Level							AREA AVERAGE % ASB - 29%					
	above drop & semipermanent ceilings	174652-0	corrugated pipe covering	OMA	920	ft. 4 in. O.D.	DW	75	16	IV	$11,040	$6,909	$17,949
	above drop & semipermanent ceilings	174653-12	mjp on corrugate pipe covering	OMA	138	4 in. O.D.	DW	6	16	IV	$5,216	$2,898	$8,114

P 702776

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	EXP PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		174654-12	mjp on corrugate pipe covering	OMA				6	16	IV			
		174655-12	mjp on corrugate pipe covering	OMA				6	16	IV			
	above drop & semipermanent ceilings	174675-17	mjp on non-suspect pipe cover	OMA	66	4 in. O.D.	HWS/R	35	16	IV	$2,495	$1,386	$3,881
		174676-17	mjp on non-suspect pipe cover	OMA				30	16	IV			
		174677-17	mjp on non-suspect pipe cover	OMA				0	16	IV			
	above drop & semipermanent ceilings	174643-9	mjp on non-suspect pipe cover	OMA	8	6 in. O.D.	CWS/R	0	16	IV	$416	$245	$661
		174644-9	mjp on non-suspect pipe cover	OMA				20	16	IV			
		174645-9	mjp on non-suspect pipe cover	OMA				20	16	IV			
	The material types and quantities were estimated from available, although incomplete drawings. The accuracy of the drawings is uncertain.							AREA TOTAL			$19,167	$11,438	$30,605
12	PAN AM — Old Building-Ground Level							AREA AVERAGE % ASB - 2%					
	baggage service area & hallway	187696-0	vinyl floor tile	OMZ	3060	sq.ft.		2	7	IV	$13,892	$10,526	$24,418
	throughout all other hallways & offices	187697-0	vinyl floor tile	OMZ	6950	sq.ft.		2	7	IV	$31,553	$23,908	$55,461
	womens locker room	187697-0	vinyl floor tile	OMZ	750	sq.ft.		2	7	IV	$3,405	$2,580	$5,985
	The material is in fair condition with areas of deterioration. These areas are accessed frequently.							AREA TOTAL			$48,850	$37,014	$85,864
13	PAN AM — Orig. Bldg-Ground Level-Mechanical Room							AREA AVERAGE % ASB - 34%					
	throughout area	174652-0	corrugated pipe covering	OMA	185	ft. 6 in. O.D.	DW	75	51	II	$3,230	$2,020	$5,250
	throughout area	174652-0	corrugated pipe covering	OMA	290	ft. 4 in. O.D.	DW	75	51	II	$3,480	$2,178	$5,658
	throughout area	174646-10	mjp on non-suspect pipe cover	OMA	290	10 in. O.D.	HWS/R	25	51	II	$24,424	$15,266	$39,690
	throughout area	174646-10	mjp on non-suspect pipe cover	OMA	210	14 in. O.D.	HWS/R	25	51	II	$24,488	$15,739	$40,227
	throughout area	174646-10	mjp on non-suspect pipe cover	OMA	310	4 in. O.D.	HWS/R	25	51	II	$11,718	$6,510	$18,228
		174647-10	mjp on non-suspect pipe cover	OMA				10	51	II			
		174648-10	mjp on non-suspect pipe cover	OMA				25	51	II			
	throughout area	174649-11	mjp on non-suspect pipe cover	OMA	79	4 in. O.D.	DW	20	51	II	$2,986	$1,659	$4,645
		174650-11	mjp on non-suspect pipe cover	OMA				20	51	II			
		174651-11	mjp on non-suspect pipe cover	OMA				20	51	II			
	throughout area	174653-12	mjp on corrugate pipe covering	OMA	33	6 in. O.D.	DW	6	51	II	$1,717	$1,009	$2,726
	throughout area	174653-12	mjp on corrugate pipe covering	OMA	105	4 in. O.D.	DW	6	51	II	$3,969	$2,205	$6,174
		174654-12	mjp on corrugate pipe covering	OMA				6	51	II			
		174655-12	mjp on corrugate pipe covering	OMA				6	51	II			

AREA #	TENANT AREA DESCRIPTION LOCATION OF MATERI	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	throughout area	174643-9	mjp on non-suspect pipe cover	OMA	36	10 in. O.D.	CWS/R	0	51	II	$3,032	$1,895	$4,927
	throughout area	174643-9	mjp on non-suspect pipe cover	OMA	71	8 in. O.D.	CWS/R	0	51	II	$4,597	$2,703	$7,300
	throughout area	174643-9	mjp on non-suspect pipe cover	OMA	23	20 in. O.D.	CWS/R	0	51	II	$5,379	$3,985	$9,364
	throughout area	174643-9	mjp on non-suspect pipe cover	OMA	22	14 in. O.D.	CWS/R	0	51	II	$2,565	$1,649	$4,214
		174644-9	mjp on non-suspect pipe cover	OMA				20	51	II			
		174645-9	mjp on non-suspect pipe cover	OMA				20	51	II			
	Pipe insulation in this area is in fair to poor condition. Debris is common throughout the room and dust is present in most areas.							AREA TOTAL			$91,585	$56,818	$148,403
14	PAN AM Orig Bldg-Ground Level-Mechanical Rm #1							AREA AVERAGE % ASB - 21%					
	throughout area	174656-0	pipe covering	OMA	10	ft. 8 in. O.D.	HWS/R	45	51	II	$190	$136	$326
	throughout area	174656-0	pipe covering	OMA	4	ft. 4 in. O.D.	HWS/R	45	51	II	$48	$30	$78
	northwest part of room	174663-0	corrugated pipe covering	OMA	30	ft. 4 in. O.D.	HWS/R	55	51	II	$360	$225	$585
	throughout room	174666-0	tar paper on fiberglass	OMZ	24	ft. 10 in. O.D.	CWS/R	0					
	throughout room	174666-0	tar paper on fiberglass	OMZ	200	ft. 12 in. O.D.	CWS/R	0					
	throughout room	174667-0	wrapped cardboard/paper pipe	OMA	198	ft. 4 in. O.D.	DW	7	51	II	$2,376	$1,487	$3,863
	throughout room	174667-0	wrapped cardboard/paper pipe	OMA	65	ft. 6 in. O.D.	DW	7	51	II	$1,135	$710	$1,845
	throughout room	174667-0	wrapped cardboard/paper pipe	OMA	30	ft. 8 in. O.D.	DW	7	51	II	$571	$408	$979
	throughout area	174657-13	mjp on pipe covering	OMA	4	8 in. O.D.	HWS/R	55	51	II	$259	$152	$411
	throughout area	174657-13	mjp on pipe covering	OMA	6	4 in. O.D.	HWS/R	55	51	II	$227	$126	$353
		174658-13	mjp on pipe covering	OMA				50	51	II			
		174659-13	mjp on pipe covering	OMA				55	51	II			
	northwest part of room	174660-14	mjp on corrugate pipe covering	OMA	7	4 in. O.D.	HWS/R	0					
		174661-14	mjp on corrugate pipe covering	OMA				0					
		174662-14	mjp on corrugate pipe covering	OMA				0					
	throughout room	174668-15	mjp on wrapped cardboard/paper	OMA	89	4 in. O.D.	DW	6	51	II	$3,364	$1,869	$5,233
	throughout room	174668-15	mjp on wrapped cardboard/paper	OMA	5	8 in. O.D.	DW	6	51	II	$324	$190	$514
	throughout room	174668-15	mjp on wrapped cardboard/paper	OMA	26	6 in. O.D.	DW	6	51	II	$1,353	$795	$2,148
		174669-15	mjp on wrapped cardboard/paper	OMA				6	51	II			
		174670-15	mjp on wrapped cardboard/paper	OMA				2	51	II			
								AREA TOTAL			$10,207	$6,128	$16,335

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
15	PAN AM — Orig. Bld-Ground Level-Mechanical Rm #1							AREA AVERAGE % ASB - 48%					
	west side of room	174619-1	boiler/tank insulation	OMB	27	sq.ft.		50	53	II	$1,291	$1,034	$2,325
		174620-1	boiler/tank insulation	OMB				45	53	II			
	west side of room	174621-1	boiler/tank insulation	OMB				50	53	II			
		174622-2	boiler/tank insulation	OMB	32	sq.ft.		60	53	II	$1,530	$1,226	$2,756
		174623-2	boiler/tank insulation	OMB				60	53	II			
	southeast corner of room	174624-2	boiler/tank insulation	OMB				60	53	II			
		174625-3	boiler/tank insulation	OMB	186	sq.ft.		50	53	II	$8,895	$7,124	$16,019
		174626-3	boiler/tank insulation	OMB				40	53	II			
	southeast corner of room	174627-3	boiler/tank insulation	OMB				45	53	II			
		174628-4	boiler/tank insulation	OMB	186	sq.ft.		0					
		174629-4	boiler/tank insulation	OMB				0					
	near east wall of room	174630-4	boiler/tank insulation	OMB				0					
		174631-5	boiler/tank insulation	OMB	70	sq.ft.		55	53	II	$3,347	$2,681	$6,028
		174632-5	boiler/tank insulation	OMB				60	53	II			
	near east wall of room	174633-5	boiler/tank insulation	OMB				60	53	II			
		174634-6	boiler/tank insulation	OMB	70	sq.ft.		55	53	II	$3,347	$2,681	$6,028
		174635-6	boiler/tank insulation	OMB				60	53	II			
	near east wall of room	174636-6	boiler/tank insulation	OMB				60	53	II			
		174637-7	boiler/tank insulation	OMB	70	sq.ft.		55	53	II	$3,347	$2,681	$6,028
		174638-7	boiler/tank insulation	OMB				60	53	II			
	near east wall of room	174639-7	boiler/tank insulation	OMB				60	53	II			
		174640-8	boiler/tank insulation	OMB	70	sq.ft.		60	53	II	$3,347	$2,681	$6,028
		174641-8	boiler/tank insulation	OMB				65	53	II			
		174642-8	boiler/tank insulation	OMB				55	53	II			
	The tank insulation in this room is in poor condition due to water and contact damage. There is also much damage to the pipe fittings. There are various areas throughout the room with traces of debris and dust and two major areas of debris: one below the #1 hot water converter tank and another on top of domestic storage tank #2.							AREA TOTAL			$25,104	$20,108	$45,212
16	PAN AM — Orig. Bld-Ground Level-Mechanical Rm #1							AREA AVERAGE % ASB - 25%					
	throughout	174652-0	corrugated pipe covering	OMA	6	ft. 4 in. O.D.	DW	75	89	I	$72	$45	$117
	throughout	174643-10	mjp on non-suspect pipe cover	OMA	12	10 in. O.D.	HTW/R	0	89	I	$1,011	$632	$1,643
	throughout	174643-10	mjp on non-suspect pipe cover	OMA	8	14 in. O.D.	HTW/R	0	89	I	$933	$600	$1,533
		174647-10	mjp on non-suspect pipe cover	OMA				10	89	I			

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		throughout	174648-10	mjp on non-suspect pipe cover	OMA				25	89	I			
			174649-11	mjp on non-suspect pipe cover	OMA	4	4 in. O.D.	DW	20	89	I	$151	$84	$235
			174650-11	mjp on non-suspect pipe cover	OMA				20	89	I			
		throughout	174651-11	mjp on non-suspect pipe cover	OMA				20	89	I			
			174653-12	mjp on corrugate pipe covering	OMA	3	4 in. O.D.	DW	6	89	I	$113	$63	$176
			174654-12	mjp on corrugate pipe covering	OMA				6	89	I			
		throughout	174655-12	mjp on corrugate pipe covering	OMA				6	89	I			
			174643-9	mjp on non-suspect pipe cover	OMA	4	14 in. O.D.	CWS/R	0	89	I	$466	$300	$766
			174644-9	mjp on non-suspect pipe cover	OMA				20	89	I			
			174645-9	mjp on non-suspect pipe cover	OMA				20	89	I			
		Mudded joint packings are in very poor condition, due to water and contact damage. Debris is common in these areas, with the possibility of dust being created upon disturbance of material.										$2,746	$1,724	$4,470
												AREA TOTAL		
17	PAN AM	Orig. Bld-Ground Level-Mechanical Rm #1												
									AREA AVERAGE % ASB - 40%					
		under HTHW converter tank #1	174664-0	debris	OMF	3	sq.ft.		60	92	I	$100	$0	$100
		on top of DOM storage tank #2	174665-0	debris	OMF	2	sq.ft.		20	92	I	$100	$0	$100
		The debris is scattered in piles throughout the room and is the result of deteriorated mechanical insulation. This room is very dirty and is accessed regularly. There is an air plenum in this room occasionally.										$200	$0	$200
												AREA TOTAL		
18	PAN AM	Old Building-Ground Level-Ceilings												
									AREA AVERAGE % ASB - 0%					
		janitors closets-E side of baggage area	187547-0	drop or lay-in panel	OMG	80	sq.ft.		0					
		baggage service offices	187547-0	drop or lay-in panel	OMG	475	sq.ft.		0					
		room 116	187547-0	drop or lay-in panel	OMG	175	sq.ft.		0					
		hallway to baggage tracing office	187547-0	drop or lay-in panel	OMG	675	sq.ft.		0					
		hallway behind baggage claim	187565-0	drop or lay-in panel	OMG	1080	sq.ft.		0					
		baggage claim areas	187565-0	drop or lay-in panel	OMG	30800	sq.ft.		0					
		office by west outside exit	187565-0	drop or lay-in panel	OMG	528	sq.ft.		0					
												AREA TOTAL		
												$0	$0	$0

AREA #	TENANT / LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
19	PAN AM	Old Building-Departure Level					AREA AVERAGE % ASB - 2%							
	behind news stand-above metal ceiling		187652-45	fireproofing	OMC	2800 sq.ft.			2	23	III	$101,108	$18,704	$119,812
			187653-45	fireproofing	OMC				3	23	III			
			187654-45	fireproofing	OMC				2	23	III			
	The fireproofing is sprayed-on steel I-beams and decking with overspray on adjacent concrete ceilings. It is located over a metal grid drop ceiling and is exposed to heavy traffic in the hallway below. The material is encapsulated with paint, but shows some contact damage.											AREA TOTAL	$101,108	$18,704	$119,812
20	PAN AM	Old Building-Mezzanine Level					AREA AVERAGE % ASB - 41%							
	above drop & semipermanent ceiling		174652-0	corrugated pipe covering	OMA	792 ft. 4 in. O.D.		DW	75	16	IV	$9,504	$5,948	$15,452
	above drop & semipermanent ceiling		174653-12	mjp on corrugate pipe covering	OMA	114 4 in. O.D.		DW	6	16	IV	$4,309	$2,394	$6,703
			174654-12	mjp on corrugate pipe covering	OMA				6	16	IV			
			174655-12	mjp on corrugate pipe covering	OMA				6	16	IV			
	The material types and quantities were estimated from available, although incomplete drawings. The accuracy of these drawings is uncertain.											AREA TOTAL	$13,813	$8,342	$22,155
21	PAN AM	Old Building-Roof-Penthouse					AREA AVERAGE % ASB - 25%							
	throughout-north penthouse		187558-0	corrugated pipe covering	OMA	80 ft. 4 in. O.D.		DW	15	50	II	$960	$601	$1,561
	throughout-north penthouse		187555-37	mjp on non-suspect pipe cover	OMA	365 4 in. O.D.		HWS/R	25	50	II	$13,797	$7,665	$21,462
	throughout-north penthouse		187555-37	mjp on non-suspect pipe cover	OMA	8 6 in. O.D.		HWS/R	25	50	II	$416	$245	$661
			187556-37	mjp on non-suspect pipe cover	OMA				60	50	II			
			187557-37	mjp on non-suspect pipe cover	OMA				25	50	II			
	The material is in fair to poor condition, with isolated areas of contact damage. There is a strong air plenum in this area and vibrations. The material is susceptible to further contact damage. The area is an air handler room which is accessed infrequently.											AREA TOTAL	$15,173	$8,511	$23,684
22	PAN AM	Old Building-Roof					AREA AVERAGE % ASB - 14%							
	middle of roof leading to penthouse		187559-38	mjp on non-suspect pipe cover	OMA	64 4 in. O.D.		HWS/R	15	24	III	$2,419	$1,344	$3,763

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	middle of roof leading to penthouse	187559-38	mjp on non-suspect pipe cover	OMA	39	8 in. O.D.	HWS/R	15	24	III	$2,525	$1,485	$4,010
		187560-38	mjp on non-suspect pipe cover	OMA				15	24	III			
		187561-38	mjp on non-suspect pipe cover	OMA				10	24	III			
	The material consists of mudded joints on metal clad non-suspect lines, coated in tar. The material shows some weather deterioration in places, but appears to be well covered in tar for the most part. This area is accessed infrequently.							AREA TOTAL			$4,944	$2,829	$7,773
23	PAN AM — Old Building-Exterior Piping							AREA AVERAGE % ASB - %					
	top of column roof supports-exterior	99999-0	mjp on non-suspect pipe cover	OMA	5	8 in. O.D.	DR				$324	$190	$514
	The material is located on top of columns around the perimeter of the building. The material is over 30' high and was inaccessible for sampling. The material appears to be in fair condition with some weather deterioration.							AREA TOTAL			$324	$190	$514
24	PAN AM — New Addition-Lower Level							AREA AVERAGE % ASB - 12%					
	over baggage claim #4	187596-42	fireproofing	OMC	11200	sq.ft.		10	46	II	$404,432	$74,816	$479,248
		187597-42	fireproofing	OMC				15	46	II			
		187598-42	fireproofing	OMC				10	46	II			
		187599-42	fireproofing	OMC				10	46	II			
		187608-42	fireproofing	OMC				2	46	II			
		187609-42	fireproofing	OMC				4	46	II			
		187610-42	fireproofing	OMC				10	46	II			
		187611-42	fireproofing	OMC				10	46	II			
		187612-42	fireproofing	OMC				6	46	II			
		187613-42	fireproofing	OMC				10	46	II			
	over baggage claim #3	187614-43	fireproofing	OMC	16400	sq.ft.		15	46	II	$592,204	$109,552	$701,756
		187615-43	fireproofing	OMC				15	46	II			
		187616-43	fireproofing	OMC				15	46	II			
		187617-43	fireproofing	OMC				12	46	II			
		187618-43	fireproofing	OMC				18	46	II			
		187619-43	fireproofing	OMC				18	46	II			
		187620-43	fireproofing	OMC				12	46	II			
		187621-43	fireproofing	OMC				15	46	II			

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		187622-43	fireproofing	OMC				8	46	II			
		187623-43	fireproofing	OMC				15	46	II			
	The material is exposed on the ceilings above a decorative drop ceiling. It is encapsulated with paint, but has areas of damage. There are severe mechanical vibrations from baggage conveyor coming down through the ceiling and the possibility of contact damage from tall baggage exists. The material quantities were estimated from available drawings.							AREA TOTAL			$996,636	$184,368	1,181,004
25	PAN AM New Addition-Lower Level-MER #1							AREA AVERAGE % ASB - 9%					
	throughout ceiling	187507-26	fireproofing	OMC	4200 sq.ft.			15	69	I	$151,662	$28,056	$179,718
		187508-26	fireproofing	OMC				10	69	I			
		187509-26	fireproofing	OMC				5	69	I			
		187510-26	fireproofing	OMC				5	69	I			
		187511-26	fireproofing	OMC				10	69	I			
	The material is damaged in places and is susceptible to contact damage in an area by a metal ladder, which leads up to MER #1. There is a light air plenum and severe vibrations in this area.							AREA TOTAL			$151,662	$28,056	$179,718
26	PAN AM New Addition-Lower Level-MER #1-Tanks							AREA AVERAGE % ASB - 24%					
	convertor tank-southeast part of room	187501-24	boiler/tank insulation	OMB	126 sq.ft.			0					
		187502-24	boiler/tank insulation	OMB				0					
		187503-24	boiler/tank insulation	OMB				0					
	HTHW storage tank-southeast part of room	187504-25	boiler/tank insulation	OMB	90 sq.ft.			60	33	III	$4,304	$3,447	$7,751
		187505-25	boiler/tank insulation	OMB				40	33	III			
		187506-25	boiler/tank insulation	OMB				40	33	III			
	The material is in fair to good condition with a few isolated areas of damage.							AREA TOTAL			$4,304	$3,447	$7,751
27	PAN AM New Addition-Lower Level-MER #1							AREA AVERAGE % ASB - 34%					
	throughout area	174686-0	pipe covering	OMA	90 ft. 4 in. O.D.		HTW/R	55	25	III	$1,080	$676	$1,756
	throughout area	174686-0	pipe covering	OMA	255 ft. 10 in. O.D.		HTW/R	55	25	III	$6,472	$4,794	$11,266
	throughout area	174686-0	pipe covering	OMA	78 ft. 6 in. O.D.		HTW/R	55	25	III	$1,362	$852	$2,214

P 702783

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	throughout area	174686-0	pipe covering	OMA	180	ft. 16 in. O.D.	HTW/R	55	25	III	$7,859	$6,548	$14,407
	throughout area	174686-0	pipe covering	OMA	110	ft. 14 in. O.D.	HTW/R	55	25	III	$3,723	$2,945	$6,668
	northwest corner of room	187529-0	corrugated pipe covering	OMA	6	ft. 12 in. O.D.	HWS/R	40	25	III	$178	$137	$315
	throughout room	174687-20	mjp on pipe covering	OMA	24	6 in. O.D.	HTW/R	60	25	III	$1,249	$734	$1,983
	throughout room	174687-20	mjp on pipe covering	OMA	40	14 in. O.D.	HTW/R	60	25	III	$4,664	$2,998	$7,662
	throughout room	174687-20	mjp on pipe covering	OMA	14	4 in. O.D.	HTW/R	60	25	III	$529	$294	$823
	throughout room	174687-20	mjp on pipe covering	OMA	240	10 in. O.D.	HTW/R	60	25	III	$20,213	$12,634	$32,847
		174687-20	mjp on pipe covering	OMA	31	16 in. O.D.	HTW/R	60	25	III	$4,263	$3,158	$7,421
		174688-20	mjp on pipe covering	OMA				60	25	III			
		174689-20	mjp on pipe covering	OMA				30	25	III			
	along east wall-north part of room	174690-21	mjp on non-suspect pipe cover	OMA	54	4 in. O.D.	HTW/R	0					
	along east wall-north part of room	174690-21	mjp on non-suspect pipe cover	OMA	30	12 in. O.D.	HTW/R	0					
	along east wall-north part of room	174690-21	mjp on non-suspect pipe cover	OMA	74	6 in. O.D.	HTW/R	0					
		174691-21	mjp on non-suspect pipe cover	OMA				0					
		174692-21	mjp on non-suspect pipe cover	OMA				0					
	throughout room	174693-22	mjp on non-suspect pipe cover	OMA	35	6 in. O.D.	DW	0					
	throughout room	174693-22	mjp on non-suspect pipe cover	OMA	3	10 in. O.D.	DW	0					
	throughout room	174693-22	mjp on non-suspect pipe cover	OMA	40	4 in. O.D.	DW	0					
	throughout room	174693-22	mjp on non-suspect pipe cover	OMA	6	8 in. O.D.	DW	0					
		174694-22	mjp on non-suspect pipe cover	OMA				0					
		174695-22	mjp on non-suspect pipe cover	OMA				0					
	along east wall-throughout	174696-23	mjp on non-suspect pipe cover	OMA	12	6 in. O.D.	DEICE	0					
	along east wall-throughout	174696-23	mjp on non-suspect pipe cover	OMA	25	4 in. O.D.	DEICE	0					
		174697-23	mjp on non-suspect pipe cover	OMA				0					
		174698-23	mjp on non-suspect pipe cover	OMA				0					
	throughout	187526-30	mjp on non-suspect pipe cover	OMA	20	12 in. O.D.	CW	0					
	throughout	187526-30	mjp on non-suspect pipe cover	OMA	14	24 in. O.D.	CW	0					
	throughout	187526-30	mjp on non-suspect pipe cover	OMA	25	6 in. O.D.	CW	0					
	throughout	187526-30	mjp on non-suspect pipe cover	OMA	6	14 in. O.D.	CW	0					
		187527-30	mjp on non-suspect pipe cover	OMA				0					
		187528-30	mjp on non-suspect pipe cover	OMA				0					

The material is in fair condition with isolated areas of contact and water damage. A strong air plenum exists through this room which opens into the customs baggage claim area.

AREA TOTAL $51,592 $35,770 $87,362

28 PAN AM New Add.-Lower Level-Dom. Baggage Claim

AREA AVERAGE % ASB - 14%

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	over semipermanent ceilings	187614-43	fireproofing	OHC	13800	sq.ft.		15	53	II	$498,318	$92,184	$590,502
		187615-43	fireproofing	OHC				15	53	II			
		187616-43	fireproofing	OHC				15	53	II			
		187617-43	fireproofing	OHC				12	53	II			
		187618-43	fireproofing	OHC				18	53	II			
		187619-43	fireproofing	OHC				18	53	II			
		187620-43	fireproofing	OHC				12	53	II			
		187621-43	fireproofing	OHC				15	53	II			
		187622-43	fireproofing	OHC				8	53	II			
		187623-43	fireproofing	OHC				15	53	II			
	The material quantities were estimated from available drawings, the accuracy of which is uncertain. The material is not encapsulated and is above metal panel ceilings in an area which is heavily accessed and has much mechanical vibration from the baggage conveyors.							AREA TOTAL			$498,318	$92,184	$590,502
29	PAN AM New Addition-Lower Level							AREA AVERAGE % ASB - 42%					
	chases around primeter drive	174686-0	pipe covering	OMA	1270	ft. 14 in. O.D.	HTW/R	55	14	IV	$42,989	$33,998	$76,987
	over ceilings & through baggage claim	174649-11	mjp on non-suspect pipe cover	OMA	38	8 in. O.D.	DW	20	14	IV	$2,461	$1,447	$3,908
	over ceilings & through baggage claim	174649-11	mjp on non-suspect pipe cover	OMA	72	6 in. O.D.	DW	20	14	IV	$3,747	$2,201	$5,948
	over ceilings & through baggage claim	174649-11	mjp on non-suspect pipe cover	OMA	606	4 in. O.D.	DW	20	14	IV	$22,907	$12,726	$35,633
	over ceilings & through baggage claim	174649-11	mjp on non-suspect pipe cover	OMA	14	10 in. O.D.	DW	20	14	IV	$1,179	$737	$1,916
		174650-11	mjp on non-suspect pipe cover	OMA				20	14	IV			
		174651-11	mjp on non-suspect pipe cover	OMA				20	14	IV			
	chases around perimeter drive	174687-20	mjp on pipe covering	OMA	33	14 in. O.D.	HTW/R	60	14	IV	$3,848	$2,473	$6,321
		174688-20	mjp on pipe covering	OMA				60	14	IV			
		174689-20	mjp on pipe covering	OMA				30	14	IV			
	The material types and quantities were estimated from available drawings, the accuracy of these drawings is uncertain. The material is located above permanent and semipermanent ceilings and bathroom pipe chases.							AREA TOTAL			$77,131	$53,582	$130,713
30	PAN AM New Addition-Lower Level-Ceiling							AREA AVERAGE % ASB - 0%					
	freight elevator service room	187566-0	drop or lay-in panel	OMG	350	sq.ft.		0					

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
								AREA TOTAL			$0	$0	$0
31	PAN AM — New Addition-Lower Level					AREA AVERAGE % ASB - 14%							
	room 1338-janitors closet	187592-41	fireproofing	OMC	92	sq.ft.		15	55	II	$3,322	$615	$3,937
	room 1306	187592-41	fireproofing	OMC	44	sq.ft.		15	55	II	$1,589	$294	$1,883
	room 1310-electrical closet	187592-41	fireproofing	OMC	85	sq.ft.		15	55	II	$3,069	$568	$3,637
	room 1341-janitor's closet	187592-41	fireproofing	OMC	42	sq.ft.		15	55	II	$1,517	$281	$1,798
	room 1311	187592-41	fireproofing	OMC	120	sq.ft.		15	55	II	$4,333	$802	$5,135
	L-28-electrical closets	187592-41	fireproofing	OMC	50	sq.ft.		15	55	II	$1,806	$334	$2,140
	L-8-electrical closets	187592-41	fireproofing	OMC	50	sq.ft.		15	55	II	$1,806	$334	$2,140
	room 1309-electrical closets	187592-41	fireproofing	OMC	180	sq.ft.		15	55	II	$6,500	$1,202	$7,702
	room 1305-electrical closets	187592-41	fireproofing	OMC	33	sq.ft.		15	55	II	$1,192	$220	$1,412
	freight elevator room-shaft ceiling	187592-41	fireproofing	OMC	48	sq.ft.		15	55	II	$1,733	$321	$2,054
	room 1331 with missing ceiling panels	187592-41	fireproofing	OMC	25	sq.ft.		15	55	II	$903	$167	$1,070
	elevator maintenance room by elevator 12	187592-41	fireproofing	OMC	60	sq.ft.		15	55	II	$2,167	$401	$2,568
	room 1815	187592-41	fireproofing	OMC	180	sq.ft.		15	55	II	$6,500	$1,202	$7,702
	room 1316	187592-41	fireproofing	OMC	20	sq.ft.		15	55	II	$722	$134	$856
		187593-41	fireproofing	OMC				15	55	II			
		187594-41	fireproofing	OMC				10	55	II			
		187595-41	fireproofing	OMC				10	55	II			
								10	55	II			
	The material is in fair condition, but is not encapsulated. There is severe overspray on many of the walls and ceilings. These rooms are subject to mechanical vibrations and are accessed regularly by airport personnel.							AREA TOTAL			$37,159	$6,875	$44,034
32	PAN AM — New Addition-Lower Level					AREA AVERAGE % ASB - 23%							
	room 1826	187548-0	pipe covering	OMA	35	ft. 12 in. O.D.	DW	40	20	III	$1,037	$797	$1,834
	valve room L-2	174693-22	mjp on non-suspect pipe cover	OMA	6	12 in. O.D.	DW	0					
	valve room L-4	174693-22	mjp on non-suspect pipe cover	OMA	9	12 in. O.D.	DW	0					
		174694-22	mjp on non-suspect pipe cover	OMA				0					
		174695-22	mjp on non-suspect pipe cover	OMA				0					
	room 1826	187549-35	mjp on pipe covering	OMA	6	16 in. O.D.	DW	45	20	III	$825	$611	$1,436
	room 1826	187549-35	mjp on pipe covering	OMA	9	12 in. O.D.	DW	45	20	III	$919	$574	$1,493
		187550-35	mjp on pipe covering	OMA				60	20	III			

P 702786

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		hallway outside room 1406	187551-35	mjp on pipe covering	OMA				45	20	III			
			187552-36	mjp on non-suspect pipe cover	OMA	9	12 in. O.D.	DW	0	20	III	$919	$574	$1,493
			187553-36	mjp on non-suspect pipe cover	OMA				5	20	III			
			187554-36	mjp on non-suspect pipe cover	OMA				0	20	III			
		The material is in fair to good condition and located in rooms on the outside perimeter of the lower level driveway. These rooms are accessed infrequently.							AREA TOTAL			$3,700	$2,556	$6,256
33	PAN AM	New Addition-Lower Level							AREA AVERAGE % ASB - 2%					
		lower link building-throughout	187700-0	vinyl floor tile	OMZ	9650	sq.ft.		2	6	IV	$43,811	$33,196	$77,007
		customs area-inspection counters	187700-0	vinyl floor tile	OMZ	2200	sq.ft.		2	6	IV	$9,988	$7,568	$17,556
		The material is in fair condition with some deterioration in places. These areas are accessed frequently.							AREA TOTAL			$53,799	$40,764	$94,563
34	PAN AM	New Addition-Apron Level							AREA AVERAGE % ASB - 3%					
		room 2801-electrical room	187568-40	fireproofing	OMC	235	sq.ft.		0	55	II	$8,486	$1,570	$10,056
		cabin service area	187568-40	fireproofing	OMC	16800	sq.ft.		0	55	II	$606,648	$112,224	$718,872
		room 2705-supply area	187568-40	fireproofing	OMC	600	sq.ft.		0	55	II	$21,666	$4,008	$25,674
		elevator motor room	187568-40	fireproofing	OMC	96	sq.ft.		0	55	II	$3,467	$641	$4,108
		room 2759 by line maintenance shop	187568-40	fireproofing	OMC	288	sq.ft.		0	55	II	$10,400	$1,924	$12,324
		building services-unit manager's office	187568-40	fireproofing	OMC	548	sq.ft.		0	55	II	$19,788	$3,661	$23,449
		line maintenance equipmnt shop	187568-40	fireproofing	OMC	900	sq.ft.		0	55	II	$32,499	$6,012	$38,511
		valve room A-13	187568-40	fireproofing	OMC	40	sq.ft.		0	55	II	$1,444	$267	$1,711
			187569-40	fireproofing	OMC				15	55	II			
			187570-40	fireproofing	OMC				0	55	II			
			187571-40	fireproofing	OMC				0	55	II			
			187572-40	fireproofing	OMC				10	55	II			
			187573-40	fireproofing	OMC				15	55	II			
			187574-40	fireproofing	OMC				0	55	II			
			187575-40	fireproofing	OMC				0	55	II			
			187576-40	fireproofing	OMC				0	55	II			
			187577-40	fireproofing	OMC				0	55	II			
			187578-40	fireproofing	OMC				0	55	II			
			187579-40	fireproofing	OMC				15.	55	II			

P 702787

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		187580-40	fireproofing	OMC				10	55	II			
		187581-40	fireproofing	OMC				0	55	II			
		187582-40	fireproofing	OMC				0	55	II			
		187583-40	fireproofing	OMC				0	55	II			
		187584-40	fireproofing	OMC				10	55	II			
		187585-40	fireproofing	OMC				15	55	II			
		187586-40	fireproofing	OMC				0	55	II			
		187587-40	fireproofing	OMC				0	55	II			
		187588-40	fireproofing	OMC				0	55	II			
		187589-40	fireproofing	OMC				0	55	II			
		187590-40	fireproofing	OMC				0	55	II			
	The material is in fair condition, but is not encapsulated. These areas are accessed regularly. The material shows isolated areas of delamination and contact damage, and active fallout can sometimes be observed.							AREA TOTAL			$704,398	$130,307	$834,705
35	PAN AM	New Addit.-Apron Level-Line Maintenance						AREA AVERAGE % ASB -		4%			
	locker room	187568-40	fireproofing	OMC	130	sq.ft.		0	58	II	$4,694	$868	$5,562
		187569-40	fireproofing	OMC				15	58	II			
		187570-40	fireproofing	OMC				0	58	II			
		187571-40	fireproofing	OMC				0	58	II			
		187572-40	fireproofing	OMC				10	58	II			
		187573-40	fireproofing	OMC				15	58	II			
		187574-40	fireproofing	OMC				0	58	II			
		187575-40	fireproofing	OMC				0	58	II			
		187576-40	fireproofing	OMC				0	58	II			
		187577-40	fireproofing	OMC				0	58	II			
		187578-40	fireproofing	OMC				0	58	II			
		187579-40	fireproofing	OMC				15	58	II			
		187580-40	fireproofing	OMC				10	58	II			
		187581-40	fireproofing	OMC				0	58	II			
		187582-40	fireproofing	OMC				0	58	II			
		187583-40	fireproofing	OMC				0	58	II			
		187584-40	fireproofing	OMC				10	58	II			
		187585-40	fireproofing	OMC				15	58	II			
		187586-40	fireproofing	OMC				0	58	II			
		187587-40	fireproofing	OMC				0	58	II			

P 702788

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		187588-40	fireproofing	OMC				0	58	II			
		187589-40	fireproofing	OMC				0	58	II			
		187590-40	fireproofing	OMC				0	58	II			
	This area is accessed frequently by maintenance personnel. The material is in fair condition but is not encapsulated and shows some damage in isolated areas. This room is subjected to outside mechanical vibrations.										$4,694	$868	$5,562
								AREA TOTAL			$4,694	$868	$5,562
36	PAN AM — New Addition-Apron Level-Ceilings							AREA AVERAGE % ASB - 0%					
	line maintenance-general office	187591-0	drop or lay-in panel	OMG	120	sq.ft.		0					
	conveyor shop	187591-0	drop or lay-in panel	OMG	800	sq.ft.		0					
	gate 8 lounge	187644-0	drop or lay-in panel	OMG	2450	sq.ft.		0					
	line maintenance-general office	187656-0	acoustical tile	OMG	1200	sq.ft.		0					
	fleet service boardmans office	187656-0	acoustical tile	OMG	450	sq.ft.		0					
	ramp service supervisor's office	187656-0	acoustical tile	OMG	750	sq.ft.		0					
	ramp service general office	187656-0	acoustical tile	OMG	1150	sq.ft.		0					
	room 2754	187656-0	acoustical tile	OMG	1000	sq.ft.		0					
								AREA TOTAL			$0	$0	$0
37	PAN AM — New Addition-Apron Level							AREA AVERAGE % ASB - 0%					
	room 2801	187512-27	mjp on non-suspect pipe cover	OMA	14	12 in. O.D.	CW	0					
		187513-27	mjp on non-suspect pipe cover	OMA				0					
		187514-27	mjp on non-suspect pipe cover	OMA				0					
	auto shop	187515-28	mjp on non-suspect pipe cover	OMA	8	4 in. O.D.	HWS/R	0					
	compactor room	187515-28	mjp on non-suspect pipe cover	OMA	10	8 in. O.D.	HWS/R	0					
	stairwell 2720-2721	187515-28	mjp on non-suspect pipe cover	OMA	4	4 in. O.D.	HWS/R	0					
	room 2727	187515-28	mjp on non-suspect pipe cover	OMA	4	4 in. O.D.	HWS/R	0					
	machine room #2	187515-28	mjp on non-suspect pipe cover	OMA	4	4 in. O.D.	HWS/R	0					
	room 2754	187515-28	mjp on non-suspect pipe cover	OMA	8	4 in. O.D.	HWS/R	0					
	room 2705-supply area	187515-28	mjp on non-suspect pipe cover	OMA	48	4 in. O.D.	HWS/R	0					
	room 2724-cabin service area	187515-28	mjp on non-suspect pipe cover	OMA	67	4 in. O.D.	HWS/R	0					
	room 2724-cabin service area	187515-28	mjp on non-suspect pipe cover	OMA	8	6 in. O.D.	HWS/R	0					
	room 2816-valve room A-13	187515-28	mjp on non-suspect pipe cover	OMA	20	4 in. O.D.	HWS/R	0					
	building services unit managers office	187515-28	mjp on non-suspect pipe cover	OMA	2	4 in. O.D.	HWS/R	0					

P 702789

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		building services unit managers office	187515-28	mjp on non-suspect pipe cover	OMA	2	6 in. O.D.	HWS/R	0					
		line maint general office-below drop	187515-28	mjp on non-suspect pipe cover	OMA	8	4 in. O.D.	HWS/R	0					
		room 2439	187515-28	mjp on non-suspect pipe cover	OMA	4	4 in. O.D.	HWS/R	0					
		room 2473-compressor room	187515-28	mjp on non-suspect pipe cover	OMA	8	4 in. O.D.	HWS/R	0					
		compactor room	187515-28	mjp on non-suspect pipe cover	OMA	4	4 in. O.D.	HWS/R	0					
			187516-28	mjp on non-suspect pipe cover	OMA				0					
			187517-28	mjp on non-suspect pipe cover	OMA				0					
								AREA TOTAL				$0	$0	$0
38	PAN AM	New Addit.-Apron Level-Baggage Handling						AREA AVERAGE % ASB -	0%					
		west side-south end by ceiling heater	174693-22	mjp on non-suspect pipe cover	OMA	7	4 in. O.D.	DW	0					
			174694-22	mjp on non-suspect pipe cover	OMA				0					
			174695-22	mjp on non-suspect pipe cover	OMA				0					
		east side by north side garage door	187512-27	mjp on non-suspect pipe cover	OMA	2	12 in. O.D.	CW	0					
			187513-27	mjp on non-suspect pipe cover	OMA				0					
			187514-27	mjp on non-suspect pipe cover	OMA				0					
		east side by north side garage door	187515-28	mjp on non-suspect pipe cover	OMA	12	4 in. O.D.	HWS/R	0					
		west side-south end	187515-28	mjp on non-suspect pipe cover	OMA	6	4 in. O.D.	HWS/R	0					
		west side-south end	187515-28	mjp on non-suspect pipe cover	OMA	6	6 in. O.D.	HWS/R	0					
		west side-throughout	187515-28	mjp on non-suspect pipe cover	OMA	86	4 in. O.D.	HWS/R	0					
		east side by north side garage door	187515-28	mjp on non-suspect pipe cover	OMA	6	6 in. O.D.	HWS/R	0					
		west side by middle garage door	187515-28	mjp on non-suspect pipe cover	OMA	78	4 in. O.D.	HWS/R	0					
		west side by middle garage door	187515-28	mjp on non-suspect pipe cover	OMA	15	6 in. O.D.	HWS/R	0					
		east side by middle garage door	187515-28	mjp on non-suspect pipe cover	OMA	7	6 in. O.D.	HWS/R	0					
		west side-throughout	187515-28	mjp on non-suspect pipe cover	OMA	46	6 in. O.D.	HWS/R	0					
		east side by northeast garage door	187515-28	mjp on non-suspect pipe cover	OMA	38	4 in. O.D.	HWS/R	0					
		east side by middle garage door	187515-28	mjp on non-suspect pipe cover	OMA	66	4 in. O.D.	HWS/R	0					
		east side by northeast garage door	187515-28	mjp on non-suspect pipe cover	OMA	20	4 in. O.D.	HWS/R	0					
		E side between center & NE garage door	187515-28	mjp on non-suspect pipe cover	OMA	55	4 in. O.D.	HWS/R	0					
		east side by northeast garage door	187515-28	mjp on non-suspect pipe cover	OMA	11	6 in. O.D.	HWS/R	0					
			187516-28	mjp on non-suspect pipe cover	OMA				0					
			187517-28	mjp on non-suspect pipe cover	OMA				0					

P 702790

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
									AREA TOTAL		$0	$0	$0
39	PAN AM New Addition-Apron Level-MER #2					AREA AVERAGE % ASB - 0%							
	around primeter walls	174693-22	mjp on non-suspect pipe cover	OMA	25	4 in. O.D.	DW	0					
		174694-22	mjp on non-suspect pipe cover	OMA				0					
		174695-22	mjp on non-suspect pipe cover	OMA				0					
	throughout	187512-27	mjp on non-suspect pipe cover	OMA	75	8 in. O.D.	CWS/R	0					
	throughout	187512-27	mjp on non-suspect pipe cover	OMA	34	6 in. O.D.	CWS/R	0					
	throughout	187512-27	mjp on non-suspect pipe cover	OMA	16	12 in. O.D.	CWS/R	0					
		187513-27	mjp on non-suspect pipe cover	OMA				0					
		187514-27	mjp on non-suspect pipe cover	OMA				0					
	throughout	187515-28	mjp on non-suspect pipe cover	OMA	384	4 in. O.D.	HWS/R	0					
	throughout	187515-28	mjp on non-suspect pipe cover	OMA	7	12 in. O.D.	HWS/R	0					
	throughout	187515-28	mjp on non-suspect pipe cover	OMA	36	6 in. O.D.	HWS/R	0					
		187516-28	mjp on non-suspect pipe cover	OMA				0					
		187517-28	mjp on non-suspect pipe cover	OMA				0					
									AREA TOTAL		$0	$0	$0
40	PAN AM New Addition-Apron Level-MER #2					AREA AVERAGE % ASB - 20%							
	on ceiling & steel beams-throughout	187518-29	fireproofing	OMC	15600	sq.ft.		20	54	II	$563,316	$104,208	$667,524
		187519-29	fireproofing	OMC				15	54	II			
		187520-29	fireproofing	OMC				10	54	II			
		187521-29	fireproofing	OMC				20	54	II			
		187522-29	fireproofing	OMC				20	54	II			
		187523-29	fireproofing	OMC				20	54	II			
		187524-29	fireproofing	OMC				30	54	II			
		187525-29	fireproofing	OMC				25	54	II			
	The material is in fair condition on the ceiling I-beams with overspray on the concrete ceiling. There is severe noise and vibrations in this room and the material shows damage and delamination in isolated areas.								AREA TOTAL		$563,316	$104,208	$667,524

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
41	PAN AM	New Addition-Apron Level							AREA AVERAGE % ASB - 7%					
		above permanent & semipermanent ceiling	174649-11	mjp on non-suspect pipe cover	OMA	72	6 in. O.D.	DW	20	16	IV	$3,747	$2,201	$5,948
		above permanent & semipermanent ceiling	174649-11	mjp on non-suspect pipe cover	OMA	20	8 in. O.D.	DW	20	16	IV	$1,295	$761	$2,056
		above permanent & semipermanent ceiling	174649-11	mjp on non-suspect pipe cover	OMA	450	4 in. O.D.	DW	20	16	IV	$17,010	$9,450	$26,460
			174650-11	mjp on non-suspect pipe cover	OMA				20	16	IV			
			174651-11	mjp on non-suspect pipe cover	OMA				20	16	IV			
		above permanent & semipermanent ceiling	187512-27	mjp on non-suspect pipe cover	OMA	18	6 in. O.D.	HWS/R	0					
			187513-27	mjp on non-suspect pipe cover	OMA				0					
			187514-27	mjp on non-suspect pipe cover	OMA				0					
		above permanent & semipermanent ceiling	187515-28	mjp on non-suspect pipe cover	OMA	225	4 in. O.D.	HWS/R	0					
		above permanent & semipermanent ceiling	187515-28	mjp on non-suspect pipe cover	OMA	56	8 in. O.D.	HWS/R	0					
		above permanent & semipermanent ceiling	187515-28	mjp on non-suspect pipe cover	OMA	8	6 in. O.D.	HWS/R	0					
			187516-28	mjp on non-suspect pipe cover	OMA				0					
			187517-28	mjp on non-suspect pipe cover	OMA				0					
		The material types and quantities were estimated from available although incomplete drawings. The accuracy of these drawings is uncertain. The material is located above permanent or semipermanent ceilings and pipe chases.							AREA TOTAL			$22,052	$12,412	$34,464
42	PAN AM	New Addition-Apron Level							AREA AVERAGE % ASB - 4%					
		upper link-above drop & semiperm ceiling	187568-40	fireproofing	OMC	32145	sq.ft.		0	36	III	1,160,756	$214,729	1,375,485
		all areas south of upper link-above drop	187568-40	fireproofing	OMC	126003	sq.ft.		0	36	III	4,549,968	$841,700	5,391,668
			187569-40	fireproofing	OMC				15	36	III			
			187570-40	fireproofing	OMC				0	36	III			
			187571-40	fireproofing	OMC				0	36	III			
			187572-40	fireproofing	OMC				10	36	III			
			187573-40	fireproofing	OMC				15	36	III			
			187574-40	fireproofing	OMC				0	36	III			
			187575-40	fireproofing	OMC				0	36	III			
			187576-40	fireproofing	OMC				0	36	III			
			187577-40	fireproofing	OMC				0	36	III			
			187578-40	fireproofing	OMC				0	36	III			
			187579-40	fireproofing	OMC				15	36	III			
			187580-40	fireproofing	OMC				10	36	III			
			187581-40	fireproofing	OMC				0	36	III			
			187582-40	fireproofing	OMC				0	36	III			

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

Building Number: 053 Page 25
Building Name: PAN AM AIRLINES TERMINAL
JFK AIRPORT
Building Type: TERMINAL
Constructed: 1960
Inspected: 04/11/88
Inspector: D. L. Stephens

H-K Building #: 14

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			187583-40	fireproofing	OMC				0	36	III			
			187584-40	fireproofing	OMC				10	36	III			
			187585-40	fireproofing	OMC				15	36	III			
			187586-40	fireproofing	OMC				0	36	III			
			187587-40	fireproofing	OMC				0	36	III			
			187588-40	fireproofing	OMC				0	36	III			
			187589-40	fireproofing	OMC				0	36	III			
			187590-40	fireproofing	OMC				0.	36	III			
		The material is located above the drop and semipermanent ceilings. The material quantities were estimated from available drawings. The actual material quantities may vary. There are numerous missing ceiling tiles and panels, especially on the overhangs surrounding the apron level.							AREA TOTAL			5,710,724	1,056,429	6,767,153
43	PAN AM	New Addition-Apron Level-Baggage Area												
		on ceilings-throughout							AREA AVERAGE % ASB -		4%			
			187568-40	fireproofing	OMC	224807	sq.ft.		0	65	I	8,117,781	1,501,711	9,619,492
			187569-40	fireproofing	OMC				15	65	I			
			187570-40	fireproofing	OMC				0	65	I			
			187571-40	fireproofing	OMC				0	65	I			
			187572-40	fireproofing	OMC				10	65	I			
			187573-40	fireproofing	OMC				15	65	I			
			187574-40	fireproofing	OMC				0	65	I			
			187575-40	fireproofing	OMC				0	65	I			
			187576-40	fireproofing	OMC				0	65	I			
			187577-40	fireproofing	OMC				0	65	I			
			187578-40	fireproofing	OMC				0	65	I			
			187579-40	fireproofing	OMC				15	65	I			
			187580-40	fireproofing	OMC				10	65	I			
			187581-40	fireproofing	OMC				0	65	I			
			187582-40	fireproofing	OMC				0	65	I			
			187583-40	fireproofing	OMC				0	65	I			
			187584-40	fireproofing	OMC				10	65	I			
			187585-40	fireproofing	OMC				15	65	I			
			187586-40	fireproofing	OMC				0	65	I			
			187587-40	fireproofing	OMC				0	65	I			
			187588-40	fireproofing	OMC				0	65	I			
			187589-40	fireproofing	OMC				0	65	I			

P 702793

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		187590-40	fireproofing	OHC				0	65	I			
	The material is in fair condition with isolated areas of damage. This area is open to the outside and is subject to severe mechanical and noise vibrations from machinary and baggage handling conveyors. There is a strong air plenum through this area occasionally and the area is accessed frequently.							AREA TOTAL			8,117,781	1,501,711	9,619,492
44	PAN AM — New Addition-Apron Level							AREA AVERAGE % ASB - 2%					
	cafeteria & hallways area	187698-0	vinyl floor tile	OMZ	98560	sq.ft.		2	7	IV	$447,462	$339,046	$786,508
	upper link building-throughout	187699-0	vinyl floor tile	OMZ	8890	sq.ft.		2	7	IV	$40,361	$30,582	$70,943
	The material has isolated areas of deterioration. These areas are accessed frequently.							AREA TOTAL			$487,823	$369,628	$857,451
45	PAN AM — New Addition-Outbound Level							AREA AVERAGE % ASB - 0%					
	throughout concourse	187536-33	mjp on non-suspect pipe cover	OMA	720	4 in. O.D.	DW	0					
		187537-33	mjp on non-suspect pipe cover	OMA				0					
		187538-33	mjp on non-suspect pipe cover	OMA				0					
								AREA TOTAL			$0	$0	$0
46	PAN AM — New Add.-Outbound Level-Service Counter							AREA AVERAGE % ASB - 9%					
	east-above open grid ceiling	187596-42	fireproofing	OHC	216	sq.ft.		10	60	I	$7,800	$1,443	$9,243
		187597-42	fireproofing	OHC				15	60	I			
		187598-42	fireproofing	OHC				10	60	I			
		187599-42	fireproofing	OHC				10	60	I			
	west-above open grid ceiling	187608-42	fireproofing	OHC	216	sq.ft.		2	60	I	$7,800	$1,443	$9,243
		187609-42	fireproofing	OHC				4	60	I			
		187610-42	fireproofing	OHC				10	60	I			
		187611-42	fireproofing	OHC				10	60	I			
		187612-42	fireproofing	OHC				6	60	I			
		187613-42	fireproofing	OHC				10	60	I			

P 702794

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	This material has been sprayed-on the structural steel and decking. Overspray on electrical conduit and ceiling suspension wires was present. The material is located above the Pan Am service counters. There is a decorative grid ceiling which provides no protection from fallout in this area.							AREA TOTAL			$15,600	$2,886	$18,486
47	PAN AM — New Addition-Outbound Level							AREA AVERAGE % ASB - 15%					
	above drop & semipermanent ceilings	187624-44	fireproofing	OMC	344600	sq.ft.		25	34	III	12,443,506	2,301,928	14,745,434
		187625-44	fireproofing	OMC				30	34	III			
		187626-44	fireproofing	OMC				20	34	III			
		187627-44	fireproofing	OMC				18	34	III			
		187628-44	fireproofing	OMC				15	34	III			
		187629-44	fireproofing	OMC				20	34	III			
		187630-44	fireproofing	OMC				10	34	III			
		187631-44	fireproofing	OMC				10	34	III			
		187632-44	fireproofing	OMC				8	34	III			
		187633-44	fireproofing	OMC				12	34	III			
		187634-44	fireproofing	OMC				15	34	III			
		187635-44	fireproofing	OMC				15	34	III			
		187636-44	fireproofing	OMC				8	34	III			
		187637-44	fireproofing	OMC				0	34	III			
		187638-44	fireproofing	OMC				12	34	III			
		187639-44	fireproofing	OMC				15	34	III			
		187640-44	fireproofing	OMC				10	34	III			
		187641-44	fireproofing	OMC				15	34	III			
		187642-44	fireproofing	OMC				10	34	III			
		187643-44	fireproofing	OMC				15	34	III			
		187645-44	fireproofing	OMC				10	34	III			
		187646-44	fireproofing	OMC				12	34	III			
		187647-44	fireproofing	OMC				25	34	III			
		187648-44	fireproofing	OMC				30	34	III			
		187649-44	fireproofing	OMC				25	34	III			
		187650-44	fireproofing	OMC				15	34	III			
		187651-44	fireproofing	OMC				8	34	III			

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		187634-44	fireproofing	OMC				15	53	II			
		187635-44	fireproofing	OMC				15	53	II			
		187636-44	fireproofing	OMC				8	53	II			
		187637-44	fireproofing	OMC				0	53	II			
		187638-44	fireproofing	OMC				12	53	II			
		187639-44	fireproofing	OMC				15	53	II			
		187640-44	fireproofing	OMC				10	53	II			
		187641-44	fireproofing	OMC				15	53	II			
		187642-44	fireproofing	OMC				10	53	II			
		187643-44	fireproofing	OMC				15	53	II			
		187645-44	fireproofing	OMC				10	53	II			
		187646-44	fireproofing	OMC				12	53	II			
		187647-44	fireproofing	OMC				25	53	II			
		187648-44	fireproofing	OMC				30	53	II			
		187649-44	fireproofing	OMC				25	53	II			
		187650-44	fireproofing	OMC				15	53	II			
		187651-44	fireproofing	OMC				8	53	II			
	The material is in fair condition with heavy overspray on the concrete walls and ceilings. These rooms are accessed infrequently by airport personnel.							AREA TOTAL			$21,450	$3,968	$25,418
51	PAN AM	New Addition-Outbound Level					AREA AVERAGE % ASB - 0%						
	stairwell 3938	187530-31	mjp on non-suspect pipe cover	OMA	2 4	in. O.D.	HWS/R	0					
		187531-31	mjp on non-suspect pipe cover	OMA				0					
		187532-31	mjp on non-suspect pipe cover	OMA				0					
								AREA TOTAL			$0	$0	$0
52	PAN AM	New Addition-4th Floor-Mechanical Room					AREA AVERAGE % ASB - 0%						
	throughout	187530-31	mjp on non-suspect pipe cover	OMA	48 8	in. O.D.	HWS/R	0					
	throughout	187530-31	mjp on non-suspect pipe cover	OMA	16 6	in. O.D.	HWS/R	0					
	throughout	187530-31	mjp on non-suspect pipe cover	OMA	357 4	in. O.D.	HWS/R	0					
		187531-31	mjp on non-suspect pipe cover	OMA				0					
		187532-31	mjp on non-suspect pipe cover	OMA				0					

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		throughout	187533-32	mjp on non-suspect pipe cover	OMA	84	8 in. O.D.	CW	0					
		throughout	187533-32	mjp on non-suspect pipe cover	OMA	16	14 in. O.D.	CW	0					
		throughout	187533-32	mjp on non-suspect pipe cover	OMA	32	12 in. O.D.	CW	0					
		throughout	187533-32	mjp on non-suspect pipe cover	OMA	28	10 in. O.D.	CW	0					
			187534-32	mjp on non-suspect pipe cover	OMA				0					
			187535-32	mjp on non-suspect pipe cover	OMA				0					
		throughout	187536-33	mjp on non-suspect pipe cover	OMA	33	4 in. O.D.	DW	0					
			187537-33	mjp on non-suspect pipe cover	OMA				0					
			187538-33	mjp on non-suspect pipe cover	OMA				0					
									AREA TOTAL			$0	$0	$0
53	PAN AM	New Addition-4th Floor-Mechanical Room							AREA AVERAGE % ASB -	7%				
		throughout ceiling beams	187539-34	fireproofing	OMC	8500	sq.ft.		10	54	II	$306,935	$56,780	$363,715
			187540-34	fireproofing	OMC				10	54	II			
			187541-34	fireproofing	OMC				10	54	II			
			187542-34	fireproofing	OMC				5	54	II			
			187543-34	fireproofing	OMC				0	54	II			
			187544-34	fireproofing	OMC				15	54	II			
			187545-34	fireproofing	OMC				0	54	II			
		The material is in fair condition on steel beams with overspray on the concrete and conduit. There are severe mechanical vibrations in this area and it is accessed regularly by maintenance personnel.							AREA TOTAL			$306,935	$56,780	$363,715
54	PAN AM	New Addition-4th Floor-Ceilings							AREA AVERAGE % ASB -	0%				
		hallways-throughout	187546-0	acoustical tile	OMG	2730	sq.ft.		0					
		in front of room 4248	187547-0	drop or lay-in panel	OMG	198	sq.ft.		0					
		room 4250W	187547-0	drop or lay-in panel	OMG	288	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
55	PAN AM	New Addition-4th Floor							AREA AVERAGE % ASB -	8%				

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		room 4712	187539-34	fireproofing	OMC	495	sq.ft.		10	55	II	$17,874	$3,307	$21,181
		room 4256W	187539-34	fireproofing	OMC	48	sq.ft.		10	55	II	$1,733	$321	$2,054
			187540-34	fireproofing	OMC				10	55	II			
			187541-34	fireproofing	OMC				10	55	II			
			187542-34	fireproofing	OMC				10	55	II			
			187543-34	fireproofing	OMC				5	55	II			
			187544-34	fireproofing	OMC				0	55	II			
			187545-34	fireproofing	OMC				15	55	II			
									0	55	II			
		This room is accessed infrequently. There is overspray on the ceilings.												
									AREA TOTAL			$19,607	$3,628	$23,235
56	PAN AM	New Addition-4th Floor							AREA AVERAGE % ASB - 0%					
		room 4712	187530-31	mjp on non-suspect pipe cover	OMA	98	4 in. O.D.	HWS/R	0					
			187531-31	mjp on non-suspect pipe cover	OMA				0					
			187532-31	mjp on non-suspect pipe cover	OMA				0					
		room 4712	187533-32	mjp on non-suspect pipe cover	OMA	22	6 in. O.D.	CW	0					
			187534-32	mjp on non-suspect pipe cover	OMA				0					
			187535-32	mjp on non-suspect pipe cover	OMA				0					
									0					
									AREA TOTAL			$0	$0	$0
57	PAN AM	New Addition-4th Floor-Clipper Club							AREA AVERAGE % ASB - 0%					
		above drop & semipermanent ceilings	187536-33	mjp on non-suspect pipe cover	OMA	42	4 in. O.D.	DW	0					
			187537-33	mjp on non-suspect pipe cover	OMA				0					
			187538-33	mjp on non-suspect pipe cover	OMA				0					
									AREA TOTAL			$0	$0	$0
58	PAN AM	New Addition-4th Floor							AREA AVERAGE % ASB - 0%					
		above drop & semipermanent ceilings	174696-23	mjp on non-suspect pipe cover	OMA	12	4 in. O.D.	TW	0					
			174697-23	mjp on non-suspect pipe cover	OMA				0					
			174698-23	mjp on non-suspect pipe cover	OMA				0					

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		above drop & semipermanent ceilings	187530-31	mjp on non-suspect pipe cover	OHA	18	8 in. O.D.	HWS/R	0					
			187531-31	mjp on non-suspect pipe cover	OHA				0					
			187532-31	mjp on non-suspect pipe cover	OHA				0					
		above drop & semipermanent ceilings	187536-33	mjp on non-suspect pipe cover	OHA	160	4 in. O.D.	DW	0					
			187537-33	mjp on non-suspect pipe cover	OHA				0					
			187538-33	mjp on non-suspect pipe cover	OHA				0					
									AREA TOTAL			$0	$0	$0
59	PAN AM	New Addition-4th Floor							AREA AVERAGE % ASB - 7%					
		above drop & semipermanent ceilings	187539-34	fireproofing	OHC	60650	sq.ft.		10	34	III	2,190,072	$405,142	2,595,214
			187540-34	fireproofing	OHC				10	34	III			
			187541-34	fireproofing	OHC				10	34	III			
			187542-34	fireproofing	OHC				5	34	III			
			187543-34	fireproofing	OHC				0	34	III			
			187544-34	fireproofing	OHC				15	34	III			
			187545-34	fireproofing	OHC				0	34	III			
		The material is in fair condition and sprayed-on steel beams with overspray on the concrete ceiling. The material quantities were estimated from available drawings. The actual amounts may vary. The areas under this material are offices and are used frequently.							AREA TOTAL			2,190,072	$405,142	2,595,214
60	PAN AM	New Addition-Penthouse-Intake Rooms							AREA AVERAGE % ASB - 1%					
		south west room	187603-0	fireproofing	OHC	600	sq.ft.		0					
		south east room	187606-0	fireproofing	OHC	600	sq.ft.		2	72	I	$14,202	$3,072	$17,274
		north & south center rooms	187607-0	fireproofing	OHC	200	sq.ft.		0					
		The material in these areas is fireproofing on structural steel. It is very friable and subject to wind erosion. It is located in the north and south rooms. The area is used for building air intake. The southeast and southwest rooms have very limited accessibility.							AREA TOTAL			$14,202	$3,072	$17,274
61	PAN AM	New Addition-Penthouse-Intake Rooms							AREA AVERAGE % ASB - 0%					

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		west room on structural steel	187601-0	fireproofing	OMC	1400	sq.ft.		0					
		east room on structural steel	187602-0	fireproofing	OMC				0					
			187604-0	fireproofing	OMC	1400	sq.ft.		0					
			187605-0	fireproofing	OMC				0					
									0					
										AREA TOTAL		$0	$0	$0
62	PAN AM	New Addition-Lower Link Bldg-Ceilings							AREA AVERAGE % ASB -	0%				
		throughout lower floor-ceiling	187657-0	acoustical tile	OMG	9880	sq.ft.		0					
										AREA TOTAL		$0	$0	$0
63	PAN AM	New Addition-Lower Link Building							AREA AVERAGE % ASB -	10%				
		throughout	174649-11	mjp on non-suspect pipe cover	OMA									
			174650-11	mjp on non-suspect pipe cover	OMA	102	4 in. O.D.	DW	20	16	IV	$3,856	$2,142	$5,998
		throughout	174651-11	mjp on non-suspect pipe cover	OMA				20	16	IV			
		throughout	187515-28	mjp on non-suspect pipe cover	OMA				20	16	IV			
			187515-28	mjp on non-suspect pipe cover	OMA	46	8 in. O.D.	HOS/R	0					
			187516-28	mjp on non-suspect pipe cover	OMA	30	4 in. O.D.	HWS/R	0					
			187517-28	mjp on non-suspect pipe cover	OMA				0					
									0					
										AREA TOTAL		$3,856	$2,142	$5,998
64	PAN AM	New Addition-Upper Link Bldg-Ceilings							AREA AVERAGE % ASB -	0%				
		throughout upper floor	187656-0	acoustical tile	OMG	6400	sq.ft.		0					
										AREA TOTAL		$0	$0	$0

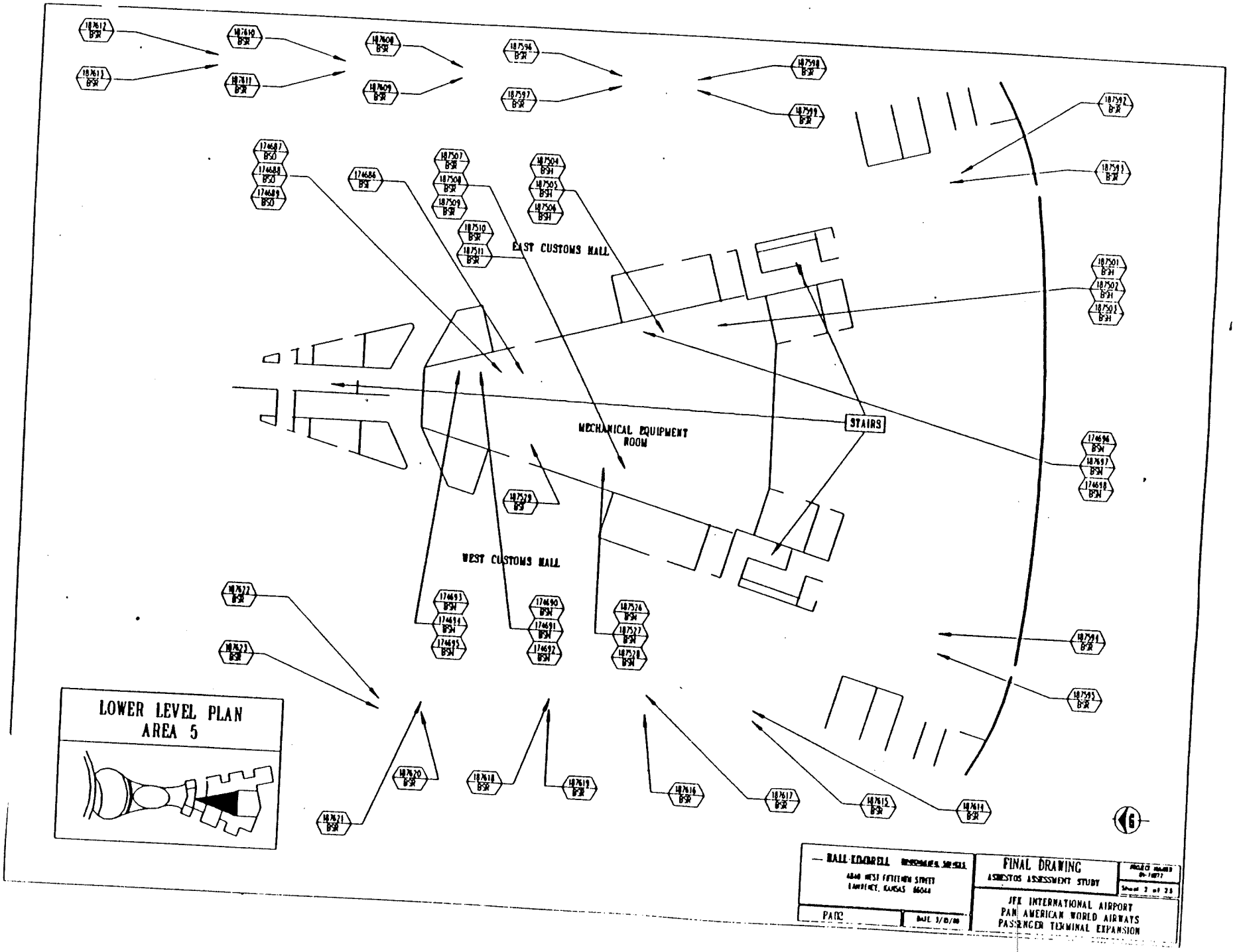
The material types and quantities were estimated from available, although incomplete drawings. The material is located above permanent and semipermanent ceilings and between pipe chases. The materials were inaccessible at the time of the survey.

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
65	PAN AM	New Addition-Upper Link Building					AREA AVERAGE % ASB - 4%							
	room 2219-ceiling		187568-40	fireproofing	OMC	300	sq.ft.		0	42	II	$10,833	$2,004	$12,837
			187569-40	fireproofing	OMC				15	42	II			
			187570-40	fireproofing	OMC				0	42	II			
			187571-40	fireproofing	OMC				0	42	II			
			187572-40	fireproofing	OMC				10	42	II			
			187573-40	fireproofing	OMC				15	42	II			
			187574-40	fireproofing	OMC				0	42	II			
			187575-40	fireproofing	OMC				0	42	II			
			187576-40	fireproofing	OMC				0	42	II			
			187577-40	fireproofing	OMC				0	42	II			
			187578-40	fireproofing	OMC				0	42	II			
			187579-40	fireproofing	OMC				15	42	II			
			187580-40	fireproofing	OMC				10	42	II			
			187581-40	fireproofing	OMC				0	42	II			
			187582-40	fireproofing	OMC				0	42	II			
			187583-40	fireproofing	OMC				0	42	II			
			187584-40	fireproofing	OMC				10	42	II			
			187585-40	fireproofing	OMC				15	42	II			
			187586-40	fireproofing	OMC				0	42	II			
			187587-40	fireproofing	OMC				0	42	II			
			187588-40	fireproofing	OMC				0	42	II			
			187589-40	fireproofing	OMC				0	42	II			
			187590-40	fireproofing	OMC				0	42	II			
		The material is in fair condition with much overspray on the concrete ceiling. This room is accessed infrequently.						AREA TOTAL				$10,833	$2,004	$12,837
66	PAN AM	New Addition-Upper Link Building					AREA AVERAGE % ASB - 10%							
	throughout		174649-11	mjp on non-suspect pipe cover	OMA	115	4 in. O.D.	DW	20	16	IV	$4,347	$2,415	$6,762
			174650-11	mjp on non-suspect pipe cover	OMA				20	16	IV			
			174651-11	mjp on non-suspect pipe cover	OMA				20	16	IV			
	throughout		187515-28	mjp on non-suspect pipe cover	OMA	12	8 in. O.D.	HWS/R	0					
	throughout		187515-28	mjp on non-suspect pipe cover	OMA	49	4 in. O.D.	HWS/R	0					
			187516-28	mjp on non-suspect pipe cover	OMA				0					

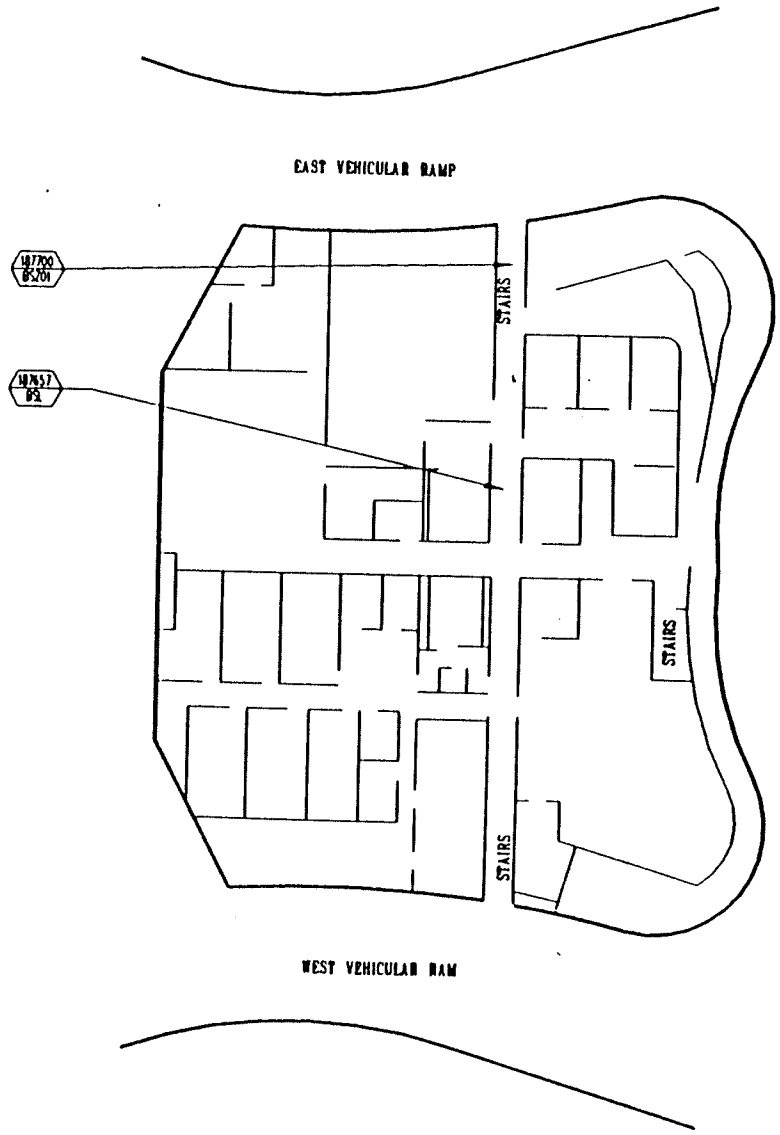
AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			187517-28	mjp on non-suspect pipe cover	OHA				0					
		The material types and quantities were estimated from available, although incomplete drawings. The material is located above permanent and semipermanent ceilings and between bathroom pipe chases. These areas were inaccessible at the time of the survey.									AREA TOTAL	$4,347	$2,415	$6,762
67	PAN AM	External Gate Jetways												
							AREA AVERAGE % ASB -		0%					
		external jetways around	187562-39	weatherproof coating	OHZ	36940	sq.ft.		0					
			187563-39	weatherproof coating	OHZ				0					
			187564-39	weatherproof coating	OHZ				0					
											AREA TOTAL	$0	$0	$0
								TENANT - PAN AM			TOTAL	32,904,466	6,658,026	39,562,492

AREA #	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
68	U.S. CUSTOMS — New Addition-Lower Level-Baggage Claim					AREA AVERAGE % ASB - 14%							
	above drop & semipermanent ceilings	187614-43	fireproofing	OMC	17400	sq.ft.		15	20	III	$628,314	$116,232	$744,546
		187615-43	fireproofing	OMC				15	20	III			
		187616-43	fireproofing	OMC				15	20	III			
		187617-43	fireproofing	OMC				12	20	III			
		187618-43	fireproofing	OMC				18	20	III			
		187619-43	fireproofing	OMC				18	20	III			
		187620-43	fireproofing	OMC				12	20	III			
		187621-43	fireproofing	OMC				15	20	III			
		187622-43	fireproofing	OMC				8	20	III			
		187623-43	fireproofing	OMC				15	20	III			
	The material quantities were estimated from available drawings where accuracy is unknown. The material is not encapsulated and is above metal panel ceilings in an area which is heavily accessed and has much mechanical vibrations from the baggage conveyors.						AREA TOTAL				$628,314	$116,232	$744,546
69	U.S. CUSTOMS — New Addition-Lower Level					AREA AVERAGE % ASB - 11%							
	ceiling over agent's cubicles	187592-41	fireproofing	OMC	3780	sq.ft.		15	46	II	$136,496	$25,250	$161,746
		187593-41	fireproofing	OMC				10	46	II			
		187594-41	fireproofing	OMC				10	46	II			
		187595-41	fireproofing	OMC				10	46	II			
	ceiling over baggage claim areas 5 & 6	187596-42	fireproofing	OMC	15156	sq.ft.		10	46	II	$547,283	$101,242	$648,525
		187597-42	fireproofing	OMC				15	46	II			
		187598-42	fireproofing	OMC				10	46	II			
		187599-42	fireproofing	OMC				10	46	II			
		187608-42	fireproofing	OMC				2	46	II			
		187609-42	fireproofing	OMC				4	46	II			
		187610-42	fireproofing	OMC				10	46	II			
		187611-42	fireproofing	OMC				10	46	II			
		187612-42	fireproofing	OMC				6	46	II			
		187613-42	fireproofing	OMC				10	46	II			
	ceiling over baggage claim areas 1 & 2	187614-43	fireproofing	OMC	14868	sq.ft.		15	46	II	$536,883	$99,318	$636,201
		187615-43	fireproofing	OMC				15	46	II			
		187616-43	fireproofing	OMC				15	46	II			
		187617-43	fireproofing	OMC				12	46	II			

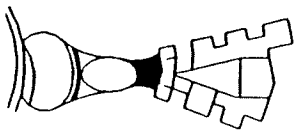
AREA	TENANT AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		187618-43	fireproofing	OMC				18	46	II			
		187619-43	fireproofing	OMC				18	46	II			
		187620-43	fireproofing	OMC				12	46	II			
		187621-43	fireproofing	OMC				15	46	II			
		187622-43	fireproofing	OMC				8	46	II			
		187623-43	fireproofing	OMC				15	46	II			
	The material is on the exposed ceilings over the baggage carousels and customs counters. The material is encapsulated with paint but is damaged and exposed in several areas. There are severe mechanical vibrations from baggage conveyors coming down through the ceiling to the carousels and the possibility of baggage contact damage exists. The material quantities were estimated from available, but incomplete drawings.							AREA TOTAL			1,220,662	$225,810	1,446,472
	TENANT - U.S. CUSTOMS							TOTAL			1,848,976	$342,042	2,191,018
	BUILDING TOTAL										34,840,106	7,016,100	41,856,206


EAST CUSTOMS HALL
MECHANICAL EQUIPMENT ROOM
STAIRS
WEST CUSTOMS HALL
LOWER LEVEL PLAN
AREA 5
FINAL DRAWING
ASBESTOS ASSESSMENT STUDY
JFK INTERNATIONAL AIRPORT
PAN AMERICAN WORLD AIRWAYS
PASSENGER TERMINAL EXPANSION
PAIC

P 702806



LOWER LEVEL PLAN
AREA 4



SECURITY AREA
PILOTS AND FLIGHT ATTENDENTS LOUNGE

HALL-KIMBRELL ENVIRONMENTAL SERVICES
4840 WEST FIFTEENTH STREET
LAWRENCE, KANSAS 66044

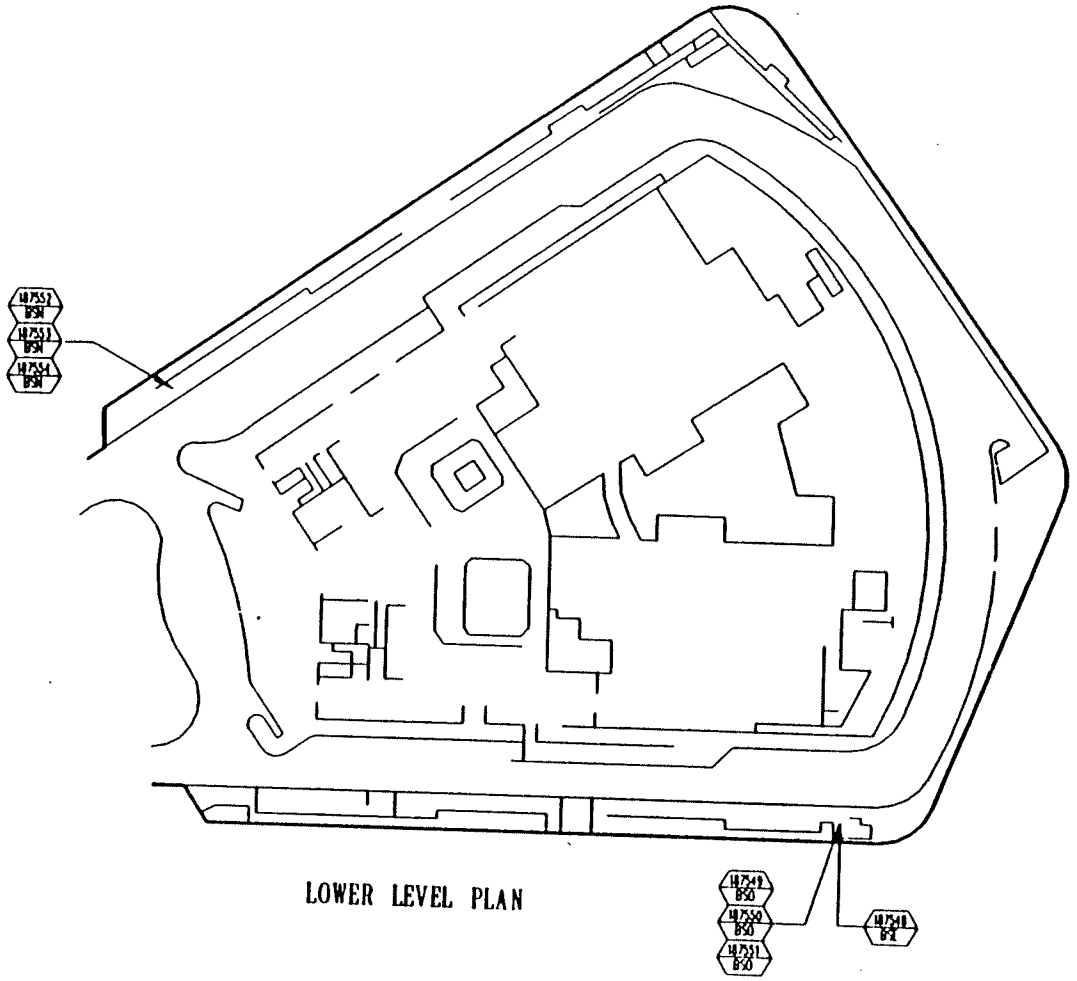
PA01 | DATE 5/15/88

FINAL DRAWING
ASBESTOS ASSESSMENT STUDY

PROJECT NUMBER
Sheet 1 of 23

JFK INTERNATIONAL AIRPORT
PAN AMERICAN WORLD AIRWAYS
PASSENGER TERMINAL EXPANSION

P 702807

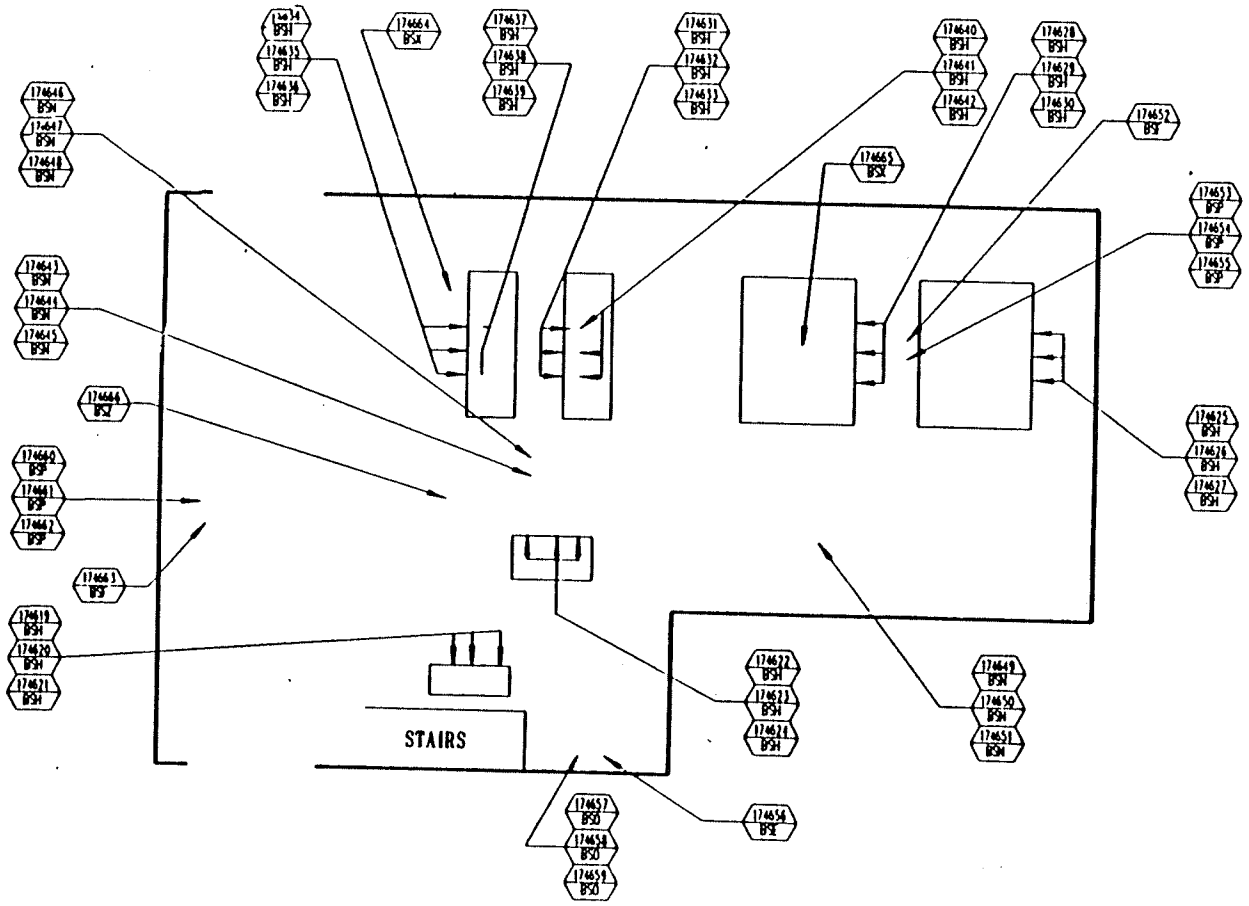


LOWER LEVEL PLAN

HALL-KIMBRELL ENVIRONMENTAL SERVICES 4840 WEST FIFTEENTH STREET LAWRENCE, KANSAS 66044	FIANL DRAWING ASBESTOS ASSESSMENT STUDY	PROJECT NUMBER Sheet 10 of 23
SCALE 1/16" = 1'	DATE 3/15/88	JFK INTERNATIONAL AIRPORT PAN AMERICAN WORLD AIRWAYS PASSENGER TERMINAL EXPANSION

PA19

P 702808



GROUND LEVEL
MECHANICAL ROOM #1

HALL KIMBRELL ENVIRONMENTAL SERVICES
4840 WEST FIFTEENTH STREET
LAWRENCE, KANSAS 66044

PA23

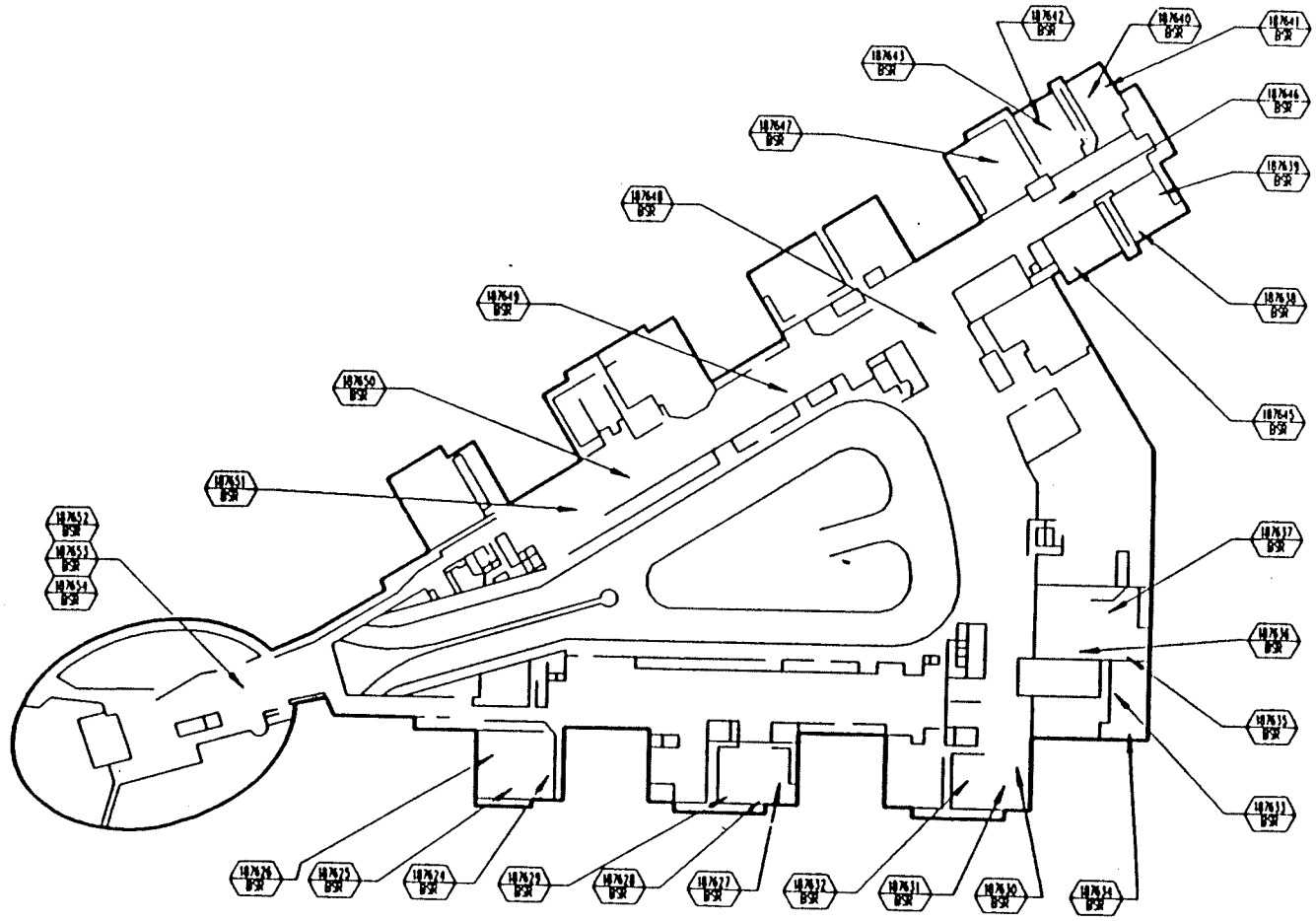
DATE 3/15/88

FINAL DRAWING
ASBESTOS ASSESSMENT STUDY

PROJECT NUMBER
Sheet 23 of 23

JFK INTERNATIONAL AIRPORT
PAN AMERICAN WORLD AIRWAYS
PASSENGER TERMINAL EXPANSION

P 702809



CONCOURSE LEVEL PLAN

HALL-KIMBRELL ENVIRONMENTAL SERVICES
4840 WEST FIFTEENTH STREET
LAWRENCE, KANSAS 66044

SCALE: 1/8" = 1'

DATE 3/15/88

FINAL DRAWING
ASBESTOS ASSESSMENT STUDY

PROJECT NUMBER 01-20877

Sheet 18 of 23

JFK INTERNATIONAL AIRPORT
PAN AMERICAN WORLD AIRWAYS
PASSENGER TERMINAL EXPANSION

PA18

P 702810

THE PORT AUTHORITY OF NY & NJ

One World Trade Center, 68N
New York, N.Y. 10048

Office of Senior
Litigation Counsel

Milton H. Pachter
Senior Litigation Counsel
(212) 435-6815

July 21, 1994

Defense Counsel in Port Authority v.
Allied; 91 Civ. 0310 (CLB)

Last year I distributed to counsel updates to the initial bulk sampling surveys for facilities at issue in the suit. Since then, the Asbestos Litigation Task Force has taken additional bulk samples in WTC Buildings 1 and 2 and at the LGA CTB. Copies of the sampling results are enclosed in this mailing, to counsel interested in those buildings -- to supplement the bulk sampling results for those buildings mailed in June 1993.

We enclose as well, to parties named for those buildings, Longo reports for products not at issue at JFK IAB (Buildings 051, 052), JFK 053 and JFK 060.

Very truly yours,

Ezra I. Bialik
Office of Senior Litigation
Counsel - 68 North
(212) 435-6818

THE PORT AUTHORITY OF NY & NJ MEMORANDUM

TO: David Platt
FROM: Frank Pergola
DATE: August 07, 1992

SUBJECT: ANALYSES OF POSSIBLE ASBESTOS CONTAINING MATERIALS

Enclosed please find bulk samples of material which are suspected to contain asbestos. The priority for analysis of these samples is as follows:

Sample Number	Date Results Needed By
ALTF-1108	August 11, 1992
ALTF-1113	August 11, 1992

Please provide me with a copy of the results when your analysis is complete. If you have any questions or anticipate any problems in meeting this request, please give me a call at (212) 435-6090.

FAX # (212) 435-6151

Frank Pergola

P 702812

Port Authority of NY&NJ

SURVEY CODE #: _____

Asbestos Management & Compliance Division

ASBESTOS BULK SAMPLING

FACILITY: JFK Int'l Airport AREA: South Concourse Level

LOCATION: Gate 8 BUILDING #: 53 FLOOR: 3rd

SAMPLE TYPE: REQUIRED DATA: (If Unrelated, Then Enter: N/A)

BULK ..... [X] - Contract Number: n/A

Survey ..... [ ] Job Number: n/A Date Sample Taken: 8/5/92

Serial ..... [ ] Nature of Request: To determine whether or not asbestos is present

SAMPLE NUMBER:	SAMPLE DESCRIPTION:
ALTF-1108	Cementitious fireproofing collected from a 16"x6" I-beam located 2C' north of LL-1377-JFK & 3' from East wall in Gate 8, formerly LL-1932-JFK
ALTF-1109	Cementitious fireproofing collected from a 12"x4" I-beam located 8' from west wall above the telephones & 40' from S. wall in Gate 8, formerly LL-1933-JFK

P 702813

ASBESTOS MANAGEMENT AND COMPLIANCE DIVISION REPRESENTATIVE(S): Keith Murphy, Gilbert GeSeon

FIRM: PA's ALTF

Jean M. Koch
ANALYZED BY:

August 10, 199
DATE:

LOGGED IN

LOGGED OUT - TEM

LOGGED OUT - PLM

AUG 7 P2:58

92 AUG 11 AM:13

SAMPLE NUMBER	NON-ASBESTOS COMPONENTS	LAYERS	PER LAYER	TOTAL
ALTF 1108	VERM/MICA, QUARTZ,	L1=		CHRYSOTILE (25%)
PLM# 80TC	BINDER	L2=		
TEM#	[X] Drying Oven [ ] 9 Hour Ashing [ ] HCl [ ] Dispersion [ ] QUAL TEM [ ] QUAN TEM [ ] STRAT PLOM [ ]			
ALTF 1109	VERM/MICA, QUARTZ,	L1=		CHRYSOTILE (25%)
PLM# 54051	BINDER	L2=		
TEM#	[X] Drying Oven [ ] 9 Hour Ashing [ ] HCl [ ] Dispersion [ ] QUAL TEM [ ] QUAN TEM [ ] STRAT PLOM [ ]			
		L1=		
PLM#		L2=		
TEM#	[ ] Drying Oven [ ] 9 Hour Ashing [ ] HCl [ ] Dispersion [ ] QUAL TEM [ ] QUAN TEM [ ] STRAT PLOM [ ]			
		L1=		
PLM#		L2=		
TEM#	[ ] Drying Oven [ ] 9 Hour Ashing [ ] HCl [ ] Dispersion [ ] QUAL TEM [ ] QUAN TEM [ ] STRAT PLOM [ ]			
		L1=		
PLM#		L2=		
TEM#	[ ] Drying Oven [ ] 9 Hour Ashing [ ] HCl [ ] Dispersion [ ] QUAL TEM [ ] QUAN TEM [ ] STRAT PLOM [ ]			
		L1=		
PLM#		L2=		
TEM#	[ ] Drying Oven [ ] 9 Hour Ashing [ ] HCl [ ] Dispersion [ ] QUAL TEM [ ] QUAN TEM [ ] STRAT PLOM [ ]			
		L1=		
PLM#		L2=		
TEM#	[ ] Drying Oven [ ] 9 Hour Ashing [ ] HCl [ ] Dispersion [ ] QUAL TEM [ ] QUAN TEM [ ] STRAT PLOM [ ]			
		L1=		
PLM#		L2=		
TEM#	[ ] Drying Oven [ ] 9 Hour Ashing [ ] HCl [ ] Dispersion [ ] QUAL TEM [ ] QUAN TEM [ ] STRAT PLOM [ ]			
		L1=		
PLM#		L2=		
TEM#	[ ] Drying Oven [ ] 9 Hour Ashing [ ] HCl [ ] Dispersion [ ] QUAL TEM [ ] QUAN TEM [ ] STRAT PLOM [ ]			

No Asbestos Detected * = Further Analysis Advised TAD = Trace Asbestos Detected SAD = Significant Asbestos Detected

REVIEWER: _____
SUPERVISOR, ASBESTOS LABORATORY SERVICES

P 702814

(PLM-2 v2.0 Wed 1 Apr 92)

THE PORT AUTHORITY OF NY & NJ MEMORANDUM

TO: David Platt
FROM: Frank Pergola
DATE: December 16, 1991

SUBJECT: ANALYSES OF POSSIBLE ASBESTOS CONTAINING MATERIALS

Enclosed please find bulk samples of material which are suspected to contain asbestos. The priority for analysis of these samples is as follows:

Sample Number	Date Results Needed By
ALTF-817	December 30, 1991
ALTF-821	December 30, 1991

Please provide me with a copy of the results when your analysis is complete. If you have any questions or anticipate any problems in meeting this request, please give me a call at (212) 435-6090.

FAX # (212) 435-6151

Frank Pergola
Frank Pergola

P 702815

7/90

Port Authority of NY&NJ
Asbestos Management & Compliance Division
ASBESTOS BULK SAMPLING

SURVEY CODE #: N/A

FACILITY: John F. Kennedy Int'l Airport AREA: Apron level / South end of building

LOCATION: Various rooms on the apron level South end of the building BUILDING #: 53 FLOOR: Apron level

SAMPLE TYPE: REQUIRED DATA: (If Unrelated, Then Enter: N/A)

ALTF ..... [X] Contract Number: N/A

Resurvey ..... [ ] Job Number: N/A Date Sample Taken: 12/16/91

Special ..... [ ] Nature of Request: to determine the percentage of asbestos present

SAMPLE NUMBER:	SAMPLE DESCRIPTION:
ALTF-817	~~Hard~~ (FD) cementitous fireproofing material collected from a beam in the Delta maintenance lounge room.
ALTF-818	Cementitous fireproofing material collected from the tool shed room from the bottom of a beam along the South wall.
ALTF-819	Cementitous fireproofing material collected from the side of a beam located along the South wall of the tool shed room.
ALTF-820	Cementitous fireproofing material collected from a beam located on the West wall of the cabin service and storage supply ra
ALTF-821	Cementitous fireproofing material collected from a beam located along the North wall of vacant office area, rm. # 2748
	Looked Like A patch of Respray per Mike Anton.

P 702816

ASBESTOS MANAGEMENT AND COMPLIANCE DIVISION REPRESENTATIVE(S): Mike Anton, Sten Evenhouse

Port Authority of NY & NJ
Asbestos Management Division

ASBESTOS BULK SAMPLING

Analyzed By: Jean M. Koch Date: Jan. 2, 1992

SAMPLE NUMBER	NON ASBESTOS COMPONENTS	LAYERS	PER LAYER	TOTAL
ALTF-817	Cellulose, binder	L1=		Chrysotile (35%)
	vesniculite, quarty	L2=		
818	Cellulose, binder	L1=		NAD
	vesniculite, quarty	L2=		
819	Cellulose, binder	L1=		Chrysotile (35%)
	vesniculite, quarty	L2=		
820	Cellulose, binder	L1=		Chrysotile (35%)
	vesniculite, quarty	L2=		
821	Cellulose, binder	L1=		Chrysotile (35%)
✓	vesniculite, quarty	L2=		
		L1=		
		L2=		
		L1=		
		L2=		
		L1=		
		L2=		
		L1=		
		L2=		
		L1=		
		L2=		
		L1=		
		L2=		
		L1=		
		L2=		
		L1=		
		L2=		

NAD = No Asbestos Detected • = Further Analysis Advised 1 = Qualitative TEM 2 = Quantitative TEM

REVIEWER:
Supervisor, Asbestos Laboratory Services: [signature]

P 702817

(PLM-2 v1.4 Wed 13 Mar 91)

THE PORT AUTHORITY OF NY & NJ

MEMORANDUM

TO: David Platt
FROM: Frank Pergola
DATE: November 01, 1991

SUBJECT: ANALYSES OF POSSIBLE ASBESTOS CONTAINING MATERIALS

Enclosed please find bulk samples of material which are suspected to contain asbestos. The priority for analysis of these samples is as follows:

Sample Number	Date Results Needed By
ALTF - 784	November 15, 1991
-785	
-786	
-787	
-788	
-789	
ALTF - 790	November 15, 1991

Please provide me with a copy of the results when your analysis is complete. If you have any questions or anticipate any problems in meeting this request, please give me a call at (212) 435-6090.

FAX # (212) 435-6151

Frank Pergola
Frank Pergola

P 702818

1/90

- Port Authority of NY&NJ SURVEY CODE #: N/A

Asbestos Management & Compliance Division
ASBESTOS BULK SAMPLING

AC: John F. Kennedy Int'l Airport AREA: N/A

OCATION: 2nd Fl NER #2, third floor gates #6 & 10 BUILDING #: 53 FLOOR: 2nd 3rd

AMPLE TYPE:
LTF ..... [X]
esurvey ..... [ ]
pecial ..... [ ]

REQUIRED DATA: (If Unrelated, Then Enter: N/A)
Contract Number: N/A
Job Number: N/A Date Sample Taken: 11/01/91
Nature of Request: to determine the percentage of asbestos present.

SAMPLE NUMBER:	SAMPLE DESCRIPTION:
ALTF-784	cementitous material collected from the 2nd fl. MER-#2 taken from a beam above the door. corresponding Lit.# LL-1353-JFK
ALTF-785	cementitous material collected from the 3rd fl. gate #6 10' from the West end. corresponding Lit.# LL-1621-JFK
ALTF-786	cementitous material collected from the 2nd fl. West baggage make-up area from a beam above conveyor #3. Lit.# LL-1622-JFK
ALTF-787	cementitous material collected from the SW corner of the 2nd floor near the Cargo/Mail area. Litigation# LL-1623-JFK
ALTF-788	cementitous material collected from a beam on the East wall above the battery recharger. (2nd fl.) Litigation #LL-1624-JFK
ALTF-789	cementitous material collected from a beam on the 2nd floor between baggage conveyors 7+8. Litigation# LL-1625-JFK
ALTF-790	cementitous material collected from 2nd fl. East wall Northern end near coveyor #12 from a beam. Litigation # LL-1626-JFK

P 702819

BESTOS MANAGEMENT AND COMPLIANCE DIVISION REPRESENTATIVE(S): Anthony Wilmoth Frantz Dambreville

& CO / PA CONSULTANT STEN Even house / Hygienetics FIRM: AMD.

Port Authority of NY & NJ
Asbestos Management Division

ASBESTOS BULK SAMPLING

Analyzed By: Jean M. Koch Date: Nov. 7, 1991

SAMPLE NUMBER	NON ASBESTOS COMPONENTS	LAYERS	PER LAYER	TOTAL
ALTF 784	Cellulose, vermi/mica binder, quartz	L1=		Chrysotile (25%)
		L2=		
℄ 785	Cellulose, vermi/mica binder, quartz	L1=		Chrysotile (30%)
		L2=		
786	Cellulose, vermi/mica binder, quartz	L1=		Chrysotile (20%)
		L2=		
787	Cellulose, vermi/mica binder, quartz	L1=		Chrysotile (35%)
		L2=		
℄ 788	Cellulose, vermi/mica binder, quartz	L1=		NAD
		L2=		
789	Cellulose, vermi/mica binder, quartz	L1=		Chrysotile (30%)
		L2=		
℄ 790	~~Mineral wool~~	L1=		~~Chrysotile (45%)~~
	~~$CaCO_3$~~, quartz	L2=		NAD
	cellulose, Binder	L1=		
	Vermiculite	L2=		
		L1=		
		L2=		
		L1=		
		L2=		
		L1=		
		L2=		
		L1=		
		L2=		
		L1=		
		L2=		

P 702820

NAD = No Asbestos Detected • = Further Analysis Advised 1 = Qualitative TEM 2 = Quantitative TEM

REVIEWER:
Supervisor, Asbestos Laboratory Services: N. Manohar Rao

DRAFT COPY ISSUED 05/15/92

PORT AUTHORITY OF NY & NJ
ASBESTOS MANAGEMENT DIVISION
SAMPLE LOCATIONS

REPORT # 372
SURVEY # 001

FACILITY: JOHN F. KENNEDY INTERNATIONAL AIRPORT
LOCATION: TERMINAL "A" DEPARTURE ROADWAYS
AREA DESCRIPTION: PAN AM WORLD PORT, 2ND OVERPASS ROADWAY

BUILDING: 53
FLOOR: GROUND

SAMPLE NUMBER	LOCATION	RESULT
JFK-4857	GRAY AND BROWN SPRAYED ON FIREPROOFING TAKEN FROM UNDERSIDE OF 2ND WALKWAY OVERPASS DIRECTLY ABOVE CENTER OF ROADWAY	10% CHRYSOTILE ASBESTOS SAMPLE DATE: 09/17/91
JFK-4858	GRAY AND BROWN SPRAYED ON FIREPROOFING TAKEN FROM UNDERSIDE OF 2ND WALKWAY OVERPASS LOCATED ABOVE CENTER OF ROADWAY	10% CHRYSOTILE ASBESTOS SAMPLE DATE: 09/17/91
JFK-4859	GRAY AND BROWN SPRAYED ON FIREPROOFING TAKEN FROM UNDERSIDE OF 2ND WALKWAY OVERPASS LOCATED ABOVE CENTER OF ROADWAY	10% CHRYSOTILE ASBESTOS SAMPLE DATE: 09/17/91
JFK-4860	GRAY AND BROWN SPRAYED ON FIREPROOFING TAKEN FROM UNDERSIDE OF 2ND WALKWAY OVERPASS LOCATED 3' WEST ABOVE CENTER OF ROADWAY	10% CHRYSOTILE ASBESTOS SAMPLE DATE: 09/17/91
JFK-4861	HARD GRAYISH BLACK MATERIAL TAKEN FROM UNDERSIDE OF 2ND WALKWAY OVERPASS LOCATED ABOVE CENTER OF ROADWAY	NON ASBESTOS SAMPLE DATE: 09/17/91
JFK-4862	BLACK AND PINK PAPER AND FIBEROUS MATERIAL TAKEN FROM UNDERSIDE OF 2ND WALKWAY OVERPASS LOCATED ABOVE CENTER OF ROADWAY	NON ASBESTOS SAMPLE DATE: 09/17/91

DRAFT COPY ISSUED 05/15/92

PORT AUTHORITY OF NY & NJ
ASBESTOS MANAGEMENT DIVISION
SAMPLE LOCATIONS

REPORT # 374
SURVEY #

FACILITY: JOHN F. KENNEDY INTERNATIONAL AIRPORT
LOCATION: I.A.B. & P.A.A TERMINAL "A"
AREA DESCRIPTION: FUEL LINES (UNDERGROUND)

BUILDING: 53
FLOOR: RUNWAY

SAMPLE NUMBER	LOCATION	RESULT
JFK-4964	BLACK FIBROUS MATERIAL COLLECTED FROM AN UNDERGROUND FUEL LINE LOCATED BETWEEN IAB & BUILDING # 53	30% CHRYSOTILE ASBESTOS SAMPLE DATE: 10/09/91
JFK-4965	CARDBOARD AND BLACK FIBROUS MATERIAL COLLECTED FROM AN UNDERGROUND FUEL LINE LOCATED BETWEEN IAB & BUILDING # 53	30% CHRYSOTILE ASBESTOS SAMPLE DATE: 10/09/91
JFK-4966	CARDBOARD AND BLACK FIBROUS MATERIAL COLLECTED FROM AN UNDERGROUND FUEL LINE LOCATED BETWEEN IAB AND BUILDING # 53	30% CHRYSOTILE ASBESTOS SAMPLE DATE: 10/09/91

DRAFT COPY ISSUED 05/15/92

PORT AUTHORITY OF NY & NJ
ASBESTOS MANAGEMENT DIVISION
SAMPLE LOCATIONS

REPORT # 400
SURVEY # 001

FACILITY: JOHN F. KENNEDY INTERNATIONAL AIRPORT
LOCATION: UNDERSIDE OF BRIDGES
AREA DESCRIPTION: CONNECTING BRIDGES OF TERMINAL "A"

BUILDING: 53
FLOOR: ROADWAY

SAMPLE NUMBER	LOCATION	RESULT
JFK-5213	CONCRETE SAMPLE COLLECTED FROM UNDERSIDE OF CONNECTING BRIDGE SERVING GATE # 1 OF PAN-AM TERMINAL "A".	NON ASBESTOS SAMPLE DATE: 10/31/91
JFK-5214	CONCRETE SAMPLE COLLECTED FROM UNDERSIDE OF CONNECTING BRIDGE SERVING GATE # 3 OF PAN-AM TERMINAL "A".	1-3% CHRYSOTILE ASBESTOS SAMPLE DATE: 10/31/91
JFK-5215	CONCRETE SAMPLE COLLECTED FROM UNDERSIDE OF CONNECTING "WEST" BRIDGE.	NON ASBESTOS SAMPLE DATE: 10/31/91
JFK-5216	CONCRETE SAMPLE COLLECTED FROM UNDERSIDE OF CONNECTING "EAST" BRIDGE.	NON ASBESTOS SAMPLE DATE: 10/31/91
JFK-5217	CONCRETE SAMPLE COLLECTED FROM UNDERSIDE OF CONNECTING BRIDGE SERVING GATE # 17 OF PAN-AM TERMINAL "A".	1-3% CHRYSOTILE ASBESTOS SAMPLE DATE: 10/31/91
JFK-5218	CONCRETE SAMPLE COLLECTED FROM UNDERSIDE OF CONNECTING BRIDGE SERVING GATE #19 OF PAN-AM TERMINAL "A".	1-3% CHRYSOTILE ASBESTOS SAMPLE DATE: 10/31/91

ORIGINAL

Port Authority of N.Y and N.J.
Litigation Sampling Program

JOB NUMBER N/A

Sample Area Data Sheet

Facility: JFK Intl Airport Building: Delta Airlines

Building No: #53 Floor: 3rd Floor Sample Size 4@3, site

Description of Sampling Area: Gate Area #8 above drop ceiling

Sample Numbers:

LL- 1932-JFK-A,B,C,D	LL-	LL-	LL-
LL- 1933-JFK-A,B,C,D	LL-	LL-	LL-
LL-	LL-	LL-	LL-
LL-	LL-	LL-	LL-
LL-	LL-	LL-	LL-
LL-	LL-	LL-	LL-

Form of Asbestos Material

- ____ Sprayed-On
- ✓ Troweled-On/Cementitious
- ____ Plaster
- ____ Acoustical Plaster
- ____ Air Cell
- ____ Molded Sections/Pads
- ____ VAT
- ____ Ceiling Tile
- ____ Other:

Location of Asbestos Material

- ✓ Support Beams/Columns
- ____ Concrete Slab/Metal Decking
- ____ Cable
- ____ Duct/Breeching
- ____ Floors
- ____ Heating/Cooling Equiptment
- ____ Ceilings
- ____ Piping/Fittings
- ____ Other:

Comments: (Indicate any unique characteristics of the material which may help identify the manufacturer.)

Sample taken by: Gilbert Gedeon, Keith Murphy Date: 8/5/92

Persons Present Gilbert Gedeon, Keith Murphy

Photographs Taken By: Gilbert Gedeon, Keith Murphy

P 702824

Name: Gilbert Gedeon Signature Gilbert Gedeon 8/12/92

SURVEYOR Robert Foster

ORIGINAL

JOB NUMBER N/A

FACILITY JFK Intl Airport

LE NUMBER	DESCRIPTION OF SAMPLING LOCATION
LL-1932-JFK	Cementitious fireproofing collected from a 16" x 6" I-beam. Sample located 20' from South wall and 3' from East wall of gate 8, 3rd floor.
LL-1933-JFK	Cementitious fireproofing collected from a 12" x 4" I-beam. Sample located 40' from South wall and 8' from West wall of gate 8, 3rd floor. (adjacent to public telephones).

P 702825

ORIGINAL

Port Authority of N.Y and N.J.
Litigation Sampling Program

JOB NUMBER TP-150

Sample Area Data Sheet

Facility: JFK INT'L AIRPORT Building: DELTA AIRLINE

Building No: 53 Floor: 2nd & 4TH Floor Sample Size 4oz Vial

Description of Sampling Area: 2nd Floor Mechanical Shop AREA, 4TH floor OFFICE AREA.

Sample Numbers:

LL-1868-JFK-ABCV	LL-	LL-	LL-
LL-1869-JFK-ABCV	LL-	LL-	LL-
LL-	LL-	LL-	LL-
LL-	LL-	LL-	LL-
LL-	LL-	LL-	LL-
LL-	LL-	LL-	LL-

Form of Asbestos Material

- X Sprayed-On
- X Troweled-On/Cementitious
- ____ Plaster
- ____ Acoustical Plaster
- ____ Air Cell
- ____ Molded Sections/Pads
- ____ VAT
- ____ Ceiling Tile
- ____ Other:

Location of Asbestos Material

- X Support Beams/Columns
- ____ Concrete Slab/Metal Decking
- ____ Cable
- ____ Duct/Breeching
- ____ Floors
- ____ Heating/Cooling Equiptment
- ____ Ceilings
- ____ Piping/Fittings
- ____ Other:

Comments: (Indicate any unique characteristics of the material which may help identify the manufacturer.)

Sample taken by: Michael ANTON GILBERT GEDEON Date: 3/16/92

Persons Present M. ANTON, G. GEDEON

M. ANTON, G. GEDEON

Photographs Taken By: P 702826

Name: Michael ANTON Signature Michael Anton 3/16/92

DATE

SURVEYOR M. ANTON

JOB NUMBER TOP-150

ORIGINAL

FACILITY JFK-BLDG #53

E NUMBER	DESCRIPTION OF SAMPLING LOCATION
LL-1868-JFK.	Cementitious fireproofing was taken from side of support Beam. Located in the Mechanical tool Shop Room, 2nd floor along South wall. 13' above floor level
LL-1869-JFK.	CEMENTITIOUS fireproofing was taken from BOTTOM of Support Beam. Located on the 4TH floor LOCKER Room OF ANA AIRLINE OFFICE AREA. Along East wall, 13' ABOVE floor level.

P 702827

ORIGINAL

Port Authority of N.Y and N.J.
Litigation Sampling Program

JOB NUMBER 70P-150

Sample Area Data Sheet

Facility: JFK INT'L AIRPORT Building: DELTA AIRLINES

Building No: 53 Floor: ~~2ND FLOOR~~ 3RD FLOOR Sample Size 4 02 CUPS, VIAL

Description of Sampling Area: CONCOURSE LEVEL ABOVE DROP CEILING BY GATE 24-26 ENTRANCE.

Sample Numbers:

LL-791 -JFK-ABCXV.	LL-	LL-	LL-
LL-	LL-	LL-	LL-
LL-	LL-	LL-	LL-
LL-	LL-	LL-	LL-
LL-	LL-	LL-	LL-
LL-	LL-	LL-	LL-

Form of Asbestos Material	Location of Asbestos Material
___ Sprayed-On	X Support Beams/Columns
X ~~Troweled-On~~/Cementitious	___ Concrete Slab/Metal Decking
___ Plaster	___ Cable
___ Acoustical Plaster	___ Duct/Breeching
___ Air Cell	___ Floors
___ Molded Sections/Pads	___ Heating/Cooling Equiptment
___ VAT	___ Ceilings
___ Ceiling Tile	___ Piping/Fittings
___ Other:	___ Other:

Comments: (Indicate any unique characteristics of the material which may help identify the manufacturer.)

Sample taken by: MICHAEL ANTON, GILBERT GEDEON Date: 1/28/92

Persons Present M. ANTON, G. GEDEON

Photographs Taken By: M. ANTON, G. GEDEON

P 702828

Name: MICHAEL ANTON Signature Michael Anton 1/28/92

SURVEYOR M. ANTON, G. GEDEON

JOB NUMBER TOP-152

ORIGINAL

FACILITY JFK - BLDG #53

SAMPLE NUMBER	DESCRIPTION OF SAMPLING LOCATION
LL-1797-JFK	SPRAYED-ON CEMENTITIOUS FIREPROOFING WAS TAKEN
"	FROM THE BOTTOM OF SUPPORT BEAM NEAR 2ND COLUM.
	ON THE CONCOURSE LEVEL BY GATE # 24-26 ENTRANCE.

P 702829

Port Authority of N.Y and N.J.
Litigation Sampling Program

ORIGINAL

JOB NUMBER_____

Sample Area Data Sheet

Facility: JFK INT'L AIRPORT Building: PAN AM

Building No: 53 Floor: FIRST Sample Size 4oz, VIAL

Description of Sampling Area: East / West side electrical closet, West Customs HALL

Sample Numbers:

LL-1615-JFK-A,B,C, X V	LL-_____	LL-_____
LL-1616-JFK-A,B,C	LL-_____	LL-_____
LL-1617-JFK-A,B,C	LL-_____	LL-_____
LL-1618-JFK-A,B,C	LL-_____	LL-_____
LL-1619-JFK-A,B,C	LL-_____	LL-_____
LL-_____	LL-_____	LL-_____

Form of Asbestos Material

- ___ Sprayed-On
- ✓ Troweled-On/Cementitious
- ___ Plaster
- ___ Acoustical Plaster
- ___ Air Cell
- ___ Molded Sections/Pads
- ___ VAT
- ___ Ceiling Tile
- ___ Other:

Location of Asbestos Material

- ✓ Support Beams/Columns
- ___ Concrete Slab/Metal Decking
- ___ Cable
- ___ Duct/Breeching
- ___ Floors
- ___ Heating/Cooling Equiptment
- ___ Ceilings
- ___ Piping/Fittings
- ___ Other:

Comments: (Indicate any unique characteristics of the material which may help identify the manufacturer.)

Sample taken by: F. DAMBREVILLE, A. WILMOTH Date: 8/26/91

Persons Present F. Dambreville, A. Wilmoth

Photographs Taken By: F. Dambreville, A. Wilmoth

P 702830

Name: ANTHONY WILMOTH signature Anthony Wilmoth 8/28/91 DATE

SURVEYOR _____

ORIGINAL

JOB NUMBER _____

FACILITY JFK, PAN Am BLDG 53

PLE NUMBER	DESCRIPTION OF SAMPLING LOCATION
LL-1615-JFK	Cementitious insulation material collected from South-west corner of west lobby electrical closet.
LL-1616-JFK	Cementitious insulation material collected from North-east corner of east arrival lobby electrical closet.
LL-1617-JFK	Cementitious insulation material collected from the west customs hall located above baggage claim # 1
LL-1618-JFK	Cementitious insulation material collected from the domestic claim area located above baggage claim # 3
LL-1619-JFK	Cementitious insulation material collected from the crew briefing office and lounge area located in the valve room L-1 South-west corner.

P 702831

Port Authority of N.Y and N.J.
Litigation Sampling Program

JOB NUMBER _____

ORIGINAL

Sample Area Data Sheet

Facility: JFK INTL. AIRPORT Building: PAN AM

Building No: 53 Floor: FIRST Sample Size 40z, VIAL

Description of Sampling Area: MEN #1, U.S. CUSTOMS AREA

Sample Numbers:

LL-1368-JFK-A,B,C,X,U	LL-1374-JFK-A,B,C	LL-	LL-
LL-1369-JFK-A,B,C	LL-	LL-	LL-
LL-1370-JFK-A,B,C	LL-	LL-	LL-
LL-1371-JFK-A,B,C	LL-	LL-	LL-
LL-1372-JFK-A,B,C	LL-	LL-	LL-
LL-1373-JFK-A,B,C	LL-	LL-	LL-

Form of Asbestos Material

- ✓ Sprayed-On
- ✓ ~~Troweled-On~~/Cementitious
- ___ Plaster
- ___ Acoustical Plaster
- ___ Air Cell
- ___ Molded Sections/Pads
- ___ VAT
- ___ Ceiling Tile
- ___ Other:

Location of Asbestos Material

- ✓ Support Beams/Columns
- ___ Concrete Slab/Metal Decking
- ___ Cable
- ___ Duct/Breeching
- ___ Floors
- ___ Heating/Cooling Equiptment
- ___ Ceilings
- ___ Piping/Fittings
- ___ Other:

Comments: (Indicate any unique characteristics of the material which may help identify the manufacturer.)

Sample taken by: F. DAMBREVILLE, A. WILMOTH Date: 4/10/91

Persons Present F. DAMBREVILLE, A. WILMOTH

Photographs Taken By: A. WILMOTH, F. DAMBREVILLE

P 702832

Name: FRANTZ DAMBREVILLE Signature Frantz Dambreville 4/11/91 DATE

Port Authority of New York and New Jersey
ASBESTOS BULK SAMPLES

ORIGINAL

Facility: JFK INTL. AIRPORT PAN AM TERMINAL A BLDG. #53

SAMPLE NUMBER:	LOCATION
LL-1368-JFK	CEMENTITIOUS INSULATION TAKEN FROM A BEAM LOCATED IN THE U.S. CUSTOMS AREA, ABOVE CARROUSEL NUMBER 6
LL-1369-JFK	CEMENTITIOUS INSULATION TAKEN FROM A BEAM LOCATED IN THE U.S. CUSTOMS AREA, ABOVE CARROUSEL NUMBER 5
LL-1370-JFK	CEMENTITIOUS INSULATION TAKEN FROM A BEAM LOCATED IN THE MECHANICAL EQUIPMENT ROOM, ABOVE THE EXIT DOOR LEADING TO THE CARROUSELS #1 AND #2
LL-1371-JFK	CEMENTITIOUS INSULATION TAKEN FROM A BEAM LOCATED IN THE MECHANICAL EQUIPMENT ROOM, IN BETWEEN THE PUMPS P6 AND P7
LL-1372-JFK	CEMENTITIOUS INSULATION TAKEN FROM A BEAM LOCATED IN THE MECHANICAL EQUIPMENT ROOM, BY THE METALLIC STAIRS LEADING TO THE SECOND FLOOR MER.
LL-1373-JFK	CEMENTITIOUS INSULATION TAKEN FROM A BEAM LOCATED IN THE MECHANICAL EQUIPMENT ROOM, BY AC UNIT #1
LL-1374-JFK	CEMENTITIOUS INSULATION TAKEN FROM A BEAM LOCATED IN THE MECHANICAL EQUIPMENT ROOM, THE BEAM WAS 3 FEET TO THE EXIT DOOR LEADING TO THE CARROUSELS #5 AND #6

P 702833

ORIGINAL

Port Authority of N.Y and N.J.
Litigation Sampling Program

JOB NUMBER_____

Sample Area Data Sheet

Facility: JFK INT'L AIRPORT Building: PAN AM

Building No: 53 Floor: Third Sample Size 4oz, VIAL

Description of Sampling Area: GATE #6, GATE 10

Sample Numbers:

LL- 1620-JFK-A,B,C	LL-_____	LL-_____	LL-_____
LL- 1621-JFK-A,B,C	LL-_____	LL-_____	LL-_____
LL-_____	LL-_____	LL-_____	LL-_____
LL-_____	LL-_____	LL-_____	LL-_____
LL-_____	LL-_____	LL-_____	LL-_____
LL-_____	LL-_____	LL-_____	LL-_____

Form of Asbestos Material

- ✓ Sprayed-On
- ✓ Troweled-On/Cementitious
- ____ Plaster
- ____ Acoustical Plaster
- ____ Air Cell
- ____ Molded Sections/Pads
- ____ VAT
- ____ Ceiling Tile
- ____ Other:

Location of Asbestos Material

- ✓ Support Beams/Columns
- ____ Concrete Slab/Metal Decking
- ____ Cable
- ____ Duct/Breeching
- ____ Floors
- ____ Heating/Cooling Equiptment
- ____ Ceilings
- ____ Piping/Fittings
- ____ Other:

Comments: (Indicate any unique characteristics of the material which may help identify the manufacturer.)

Sample taken by: F. DAMBERVILLE, A. WILMOTH Date: 8/26/91

Persons Present F. Damberville, A. Wilmoth P 702834

Photographs Taken By: F. Damberville, A. Wilmoth

Name: ANTHONY WILMOTH Signature Anthony Wilmoth 8/28/91 DATE

SURVEYOR _____

JOB NUMBER _____

FACILITY JFK - PAN AM : BLDG. # 53

E NUMBER	DESCRIPTION OF SAMPLING LOCATION
L-1620-JFK	CEMENTITIOUS INSULATION MATERIAL COLLECTED FROM GATE NUMBER 10, LOCATED IN THE SOUTH-EAST CORNER
L-1621-JFK	CEMENTITIOUS INSULATION MATERIAL COLLECTED FROM GATE NUMBER 6, 7 FEET FROM WEST WALL AND 10 FEET SOUTH FROM COLUMN.

P 702835

ORIGINAL

Port Authority of N.Y and N.J.
Litigation Sampling Program

JOB NUMBER Top 150

Sample Area Data Sheet

Facility: John F Kennedy Internat'l Airport Building: PAN Am

Building No: 53 Floor: 3rd Floor Departure Sample Size 4oz, Vials

Description of Sampling Area: 3rd Floor Departure level

Sample Numbers:

LL-1375-JFK-A,B,C,X,V	LL-1381-A.B.C	LL-	LL-
LL-1376-JFK-A.B.C	LL-	LL-	LL-
LL-1377-JFK-A,B,C	LL-	LL-	LL-
LL-1378-JFK-A,B,C	LL-	LL-	LL-
LL-1379-JFK-A,B,C	LL-	LL-	LL-
LL-1380-JFK-A,B,C	LL-	LL-	LL-

Form of Asbestos Material

- ___ Sprayed-On
- ✓ ~~Troweled-On~~/Cementitious
- ___ Plaster
- ___ Acoustical Plaster
- ___ Air Cell
- ___ Molded Sections/Pads
- ___ VAT
- ___ Ceiling Tile
- ___ Other:

Location of Asbestos Material

- ✓ Support Beams/Columns
- ___ Concrete Slab/Metal Decking
- ___ Cable
- ___ Duct/Breeching
- ___ Floors
- ___ Heating/Cooling Equiptment
- ___ Ceilings
- ___ Piping/Fittings
- ___ Other:

Comments: (Indicate any unique characteristics of the material which may help identify the manufacturer.)

P 702836

Sample taken by: Anthony Wilmoth, Frantz Dambreville Date: 4-15-91

Persons Present Anthony Wilmoth, Frantz Dambreville

Photographs Taken By: Anthony Wilmoth, Frantz Dambreville

Name: ANTHONY Wilmoth Signature Anthony Wilmoth 4/17/91 DATE

SURVEYOR_____ JOB NUMBER_____

FACILITY JFK - BLDG #5
PAN AM.

LE NUMBER	DESCRIPTION OF SAMPLING LOCATION
L-1375-JFK	CEMENTITIOUS INSULATION MATERIAL COLLECTED FROM CALIFORNIA LOUNGE / GATE #7. SAMPLE WAS TAKEN IN THE SOUTH-EAST CORNER APPROXIMATELY 4 FEET FROM SOUTH WA
L-1376-JFK	CEMENTITIOUS INSULATION MATERIAL COLLECTED FROM CALIFORNIA LOUNGE / GATE #7. SAMPLE WAS TAKEN IN THE NORTH-WEST CORNER APPROXIMATELY 10 FEET FROM WINDOW
L-1377-JFK	CEMENTITIOUS INSULATION MATERIAL COLLECTED FROM GATE # SAMPLE WAS TAKEN IN THE WEST CORNER, APPROXIMATELY 4 FEET FROM LIQUID CRYSTAL DISPLAY #1
L-1378-JFK	CEMENTITIOUS INSULATION MATERIAL COLLECTED FROM GATE # 9. SAMPLE WAS TAKEN IN THE EAST CORNER, APPROXIMATE 5 FEET FROM LIQUID CRYSTAL DISPLAY #5
LL-1379-JFK	CEMENTITIOUS INSULATION MATERIAL, COLLECTED FROM GATE # 17. SAMPLE WAS TAKEN IN THE WEST CORNER, APPROXIMATELY 4 FEET FROM FRONT DESK P 702837 -
L1-1380-JFK	CEMENTITIOUS INSULATION MATERIAL COLLECTED FROM GATE #17. SAMPLE WAS TAKEN FROM CENTER OF ROOM
L-1381-JFK	CEMENTITIOUS INSULATION MATERIAL COLLECTED FROM GATE

SURVEYOR_____ JOB NUMBER_____

FACILITY JFK - BLDG #53
PAN AM

NUMBER	DESCRIPTION OF SAMPLING LOCATION
	#12. SAMPLE WAS TAKEN FROM THE NORTH EAST CORNER

P 702838

ORIGINAL

Port Authority of N.Y and N.J.
Litigation Sampling Program

Sample Area Data Sheet

JOB NUMBER _____

cility: JFK INTL. AIRPORT Building: PAN AM

Building No: 53 Floor: 4TH Sample Size 4oz, VIAL

Description of Sampling Area: MECHANICAL EQUIPMENT ROOM, EMPTY OFFICE AREA, HALLWAY IN FRONT OF THE MECHANICAL ROOM

Sample Numbers:

LL-1346-JFK-A,B,C, LL-1352-JFK-A,B,C	LL-_____	LL-_____	LL-_____
LL-1347-JFK-A,B,C	LL-_____	LL-_____	LL-_____
LL-1348-JFK-A,B,C	LL-_____	LL-_____	LL-_____
LL-1349-JFK-A,B,C	LL-_____	LL-_____	LL-_____
LL-1350-JFK-A,B,C	LL-_____	LL-_____	LL-_____
LL-1351-JFK-A,B,C	LL-_____	LL-_____	LL-_____

Form of Asbestos Material

- ✓ Sprayed-On
- ✓ ~~Troweled-On~~/Cementitious
- ___ Plaster
- ___ Acoustical Plaster
- ___ Air Cell
- ___ Molded Sections/Pads
- ___ VAT
- ___ Ceiling Tile
- ___ Other:

Location of Asbestos Material

- ✓ Support Beams/Columns
- ___ Concrete Slab/Metal Decking
- ___ Cable
- ___ Duct/Breeching
- ___ Floors
- ___ Heating/Cooling Equiptment
- ___ Ceilings
- ___ Piping/Fittings
- ___ Other:

Comments: (Indicate any unique characteristics of the material which may help identify the manufacturer.)

Sample taken by: F. DAMBREVILLE, A. WILMOTH Date: 4/3/91

Persons Present F. DAMBREVILLE, A. WILMOTH

P 702839

Photographs Taken By: A. WILMOTH, F. DAMBREVILLE

Name: FRANTZ DAMBREVILLE Signature Frantz Dambreville 4/4/91 DATE

SURVEYOR _____ JOB NUMBER _____

FACILITY JFK- BLDG. #53
PAN AM

E NUMBER	DESCRIPTION OF SAMPLING LOCATION
L-1346-JFK	CEMENTITIOUS INSULATION TAKEN FROM A BEAM LOCATED IN MECHANICAL EQUIPMENT ROOM NEXT TO A HVAC UNIT
L-1347-JFK	CEMENTITIOUS INSULATION TAKEN FROM A BEAM LOCATED IN MECHANICAL EQUIPMENT ROOM, 2 FEET FROM THE WEST WALL
L-1348-JFK	CEMENTITIOUS INSULATION TAKEN FROM A BEAM LOCATED IN MECHANICAL EQUIPMENT ROOM, 1 FOOT FROM WEST WALL
L-1349-JFK	CEMENTITIOUS INSULATION TAKEN FROM A BEAM LOCATED IN MECHANICAL EQUIPMENT ROOM, BEHIND HVAC UNIT
L-1350-JFK	CEMENTITIOUS INSULATION TAKEN FROM A BEAM LOCATED IN AN EMPTY OFFICE AREA OF THE FOURTH FLOOR
L-1351-JFK	CEMENTITIOUS INSULATION TAKEN FROM A BEAM LOCATED IN HALLWAY AREA OF FOURTH FLOOR AND IN FRONT OF THE HVAC ROOM
L-1352-JFK	CEMENTITIOUS INSULATION TAKEN FROM A BEAM LOCATED IN MECHANICAL EQUIPMENT ROOM, BY THE ENTRANCE DOOR

P 702840

Port Authority of N.Y and N.J.
Litigation Sampling Program

ORIGINAL

JOB NUMBER_____

Sample Area Data Sheet

Facility: JFK INT'L AIRPORT Building: PAN AM

Building No: 53 Floor: SECOND Sample Size 4oz, VIAL

Description of Sampling Area: _____

Sample Numbers:

LL-1622-JFK-A,B,C,X,V	LL-_____	LL-_____	LL-_____
LL-1623-JFK-A,B,C	LL-_____	LL-_____	LL-_____
LL-1624-JFK-A,B,C	LL-_____	LL-_____	LL-_____
LL-1625-JFK-A,B,C	LL-_____	LL-_____	LL-_____
LL-1626-JFK-A,B,C	LL-_____	LL-_____	LL-_____
LL-_____	LL-_____	LL-_____	LL-_____

Form of Asbestos Material

- ✓ Sprayed-On
- ____ Troweled-On/Cementitious ✓
- ____ Plaster
- ____ Acoustical Plaster
- ____ Air Cell
- ____ Molded Sections/Pads
- ____ VAT
- ____ Ceiling Tile
- ____ Other:

Location of Asbestos Material

- ✓ Support Beams/Columns
- ____ Concrete Slab/Metal Decking
- ____ Cable
- ____ Duct/Breeching
- ____ Floors
- ____ Heating/Cooling Equiptment
- ____ Ceilings
- ____ Piping/Fittings
- ____ Other:

Comments: (Indicate any unique characteristics of the material which may help identify the manufacturer.)

Sample taken by: F. DAMBERVILLE, A. WILMOTT Date: 8/27/91

Persons Present F. Damberville, A. Wilmoth

P 702841

Photographs Taken By: F. Damberville A. Wilmoth

Name: ANTHONY WILMOTT Signature Anthony Wilmoth 8/28/91 DATE

SURVEYOR_____ JOB NUMBER_____

FACILITY JFK - PAN AM BLDG. #53

.E NUMBER	DESCRIPTION OF SAMPLING LOCATION
LL-1622-JFK	CEMENTITIOUS INSULATION MATERIAL COLLECTED FROM THE NORTH-WEST CORNER ABOVE CONVEYOR NUMBER THREE (HORIZONTAL BEAM)
LL-1623-JFK	CEMENTITIOUS INSULATION MATERIAL COLLECTED FROM THE SOUTH-WEST CORNER ABOVE ELEVATOR MACHINE ROOM
LL-1624-JFK	CEMENTITIOUS INSULATION MATERIAL COLLECTED FROM THE EAST WALL ABOVE THE BATTERY RECHARGER
L-1625-JFK	CEMENTITIOUS INSULATION MATERIAL COLLECTED FROM A HORIZONTAL BEAM BETWEEN CONVEYOR 7 AND 8 ON A CATWALK
L-1626-JFK	CEMENTITIOUS INSULATION MATERIAL COLLECTED FROM EAST WALL, NORTHERN END NEAR CONVEYOR #12, HORIZONTAL BEAM.

P 702842

Port Authority of N.Y and N.J.
Litigation Sampling Program

ORIGINAL

JOB NUMBER Top 150

Sample Area Data Sheet

JFK International Airport Building: Terminal B / PAN AM

Building No: 53 Floor: 2nd Floor / MER Sample Size 402, VIALS

Description of Sampling Area: 2nd Floor Mechanical equipment room #2

Sample Numbers:

LL-1353-JFK-A,B,C,X,V	LL-1359-JFK-A,B,C	LL-_____	LL-_____
LL-1354-JFK-A,B,C	LL-_____	LL-_____	LL-_____
LL-1355-JFK-A,B,C	LL-_____	LL-_____	LL-_____
LL-1356-JFK-A,B,C	LL-_____	LL-_____	LL-_____
LL-1357-JFK-A,B,C	LL-_____	LL-_____	LL-_____
LL-1358-JFK-A,B,C	LL-_____	LL-_____	LL-_____

Form of Asbestos Material

- ✓ Sprayed-On
- ✓ ~~Troweled-On~~/Cementitious
- ___ Plaster
- ___ Acoustical Plaster
- ___ Air Cell
- ___ Molded Sections/Pads
- ___ VAT
- ___ Ceiling Tile
- ___ Other:

Location of Asbestos Material

- ✓ Support Beams/Columns
- ___ Concrete Slab/Metal Decking
- ___ Cable
- ___ Duct/Breeching
- ___ Floors
- ___ Heating/Cooling Equiptment
- ___ Ceilings
- ___ Piping/Fittings
- ___ Other:

Comments: (Indicate any unique characteristics of the material which may help identify the manufacturer.)

Sample taken by: Anthony Wilmoth, Frantz Dambreville Date: 4/8/91

Persons Present Anthony Wilmoth, Frantz Dambreville

P 702843

Photographs Taken By: Anthony Wilmoth, Frantz Dambreville

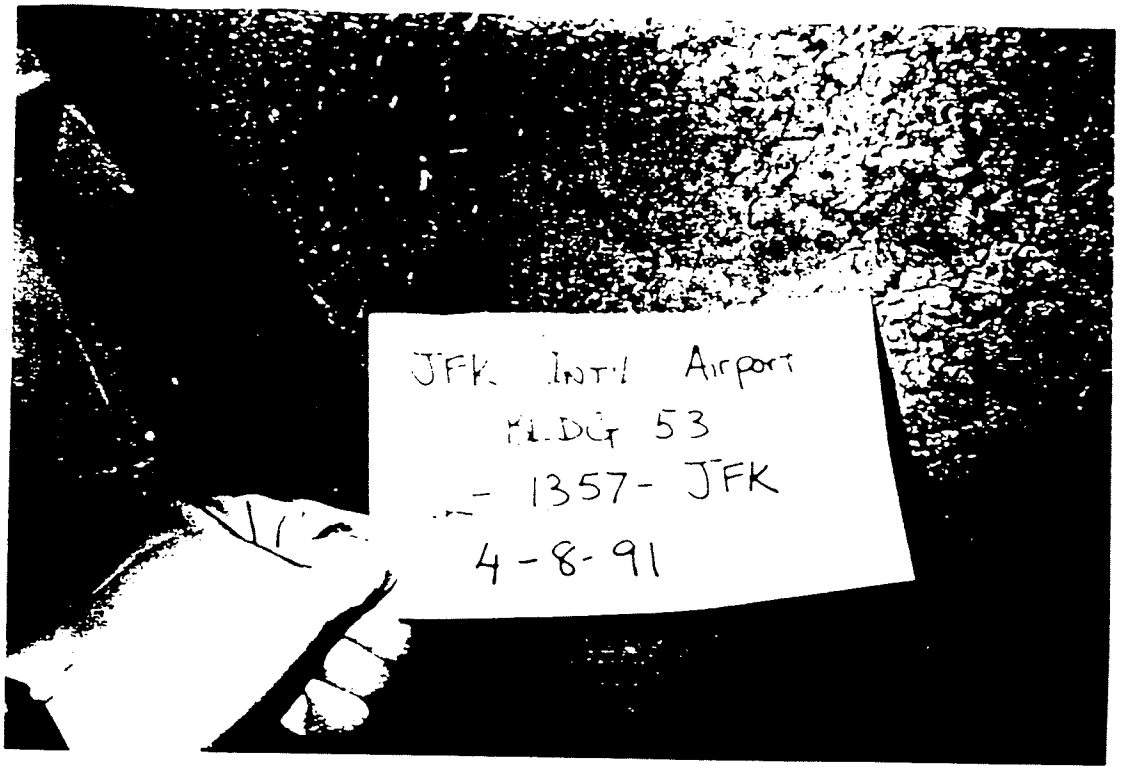
Name: ANTHONY WILMOTH Signature _____ 4/11/91 DATE

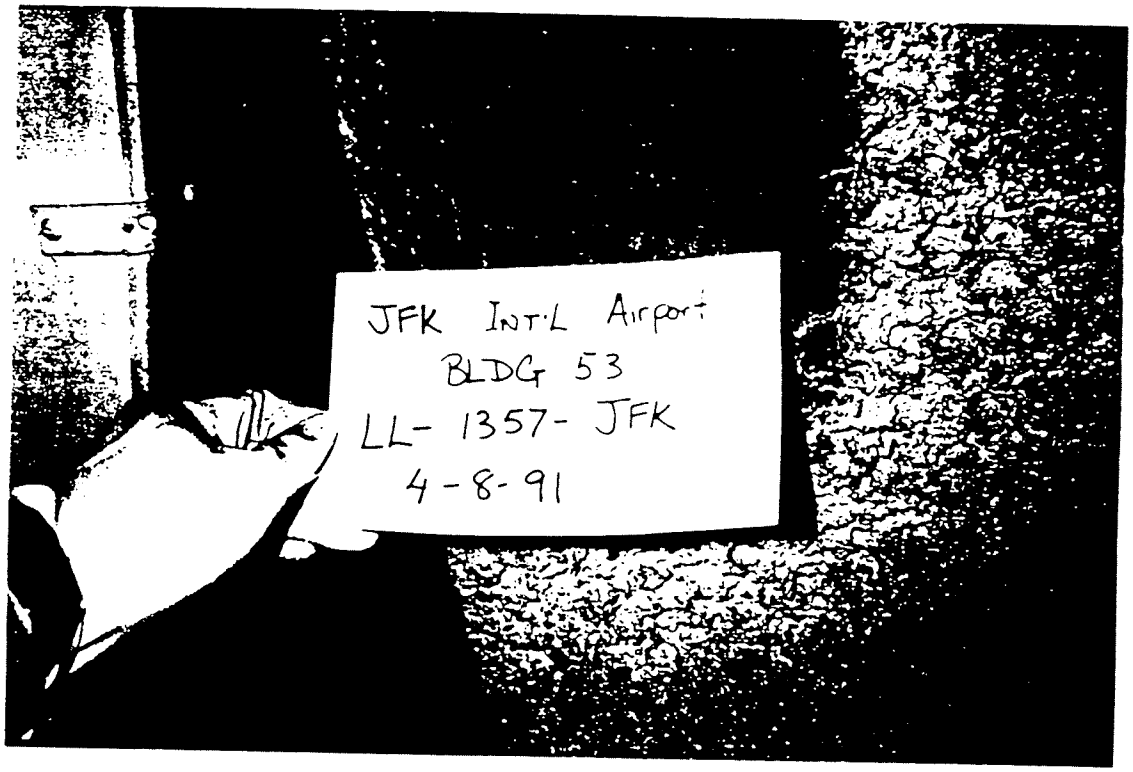
SURVEYOR_____ JOB NUMBER_____

FACILITY JFK - BLDG #53
PAN - AM

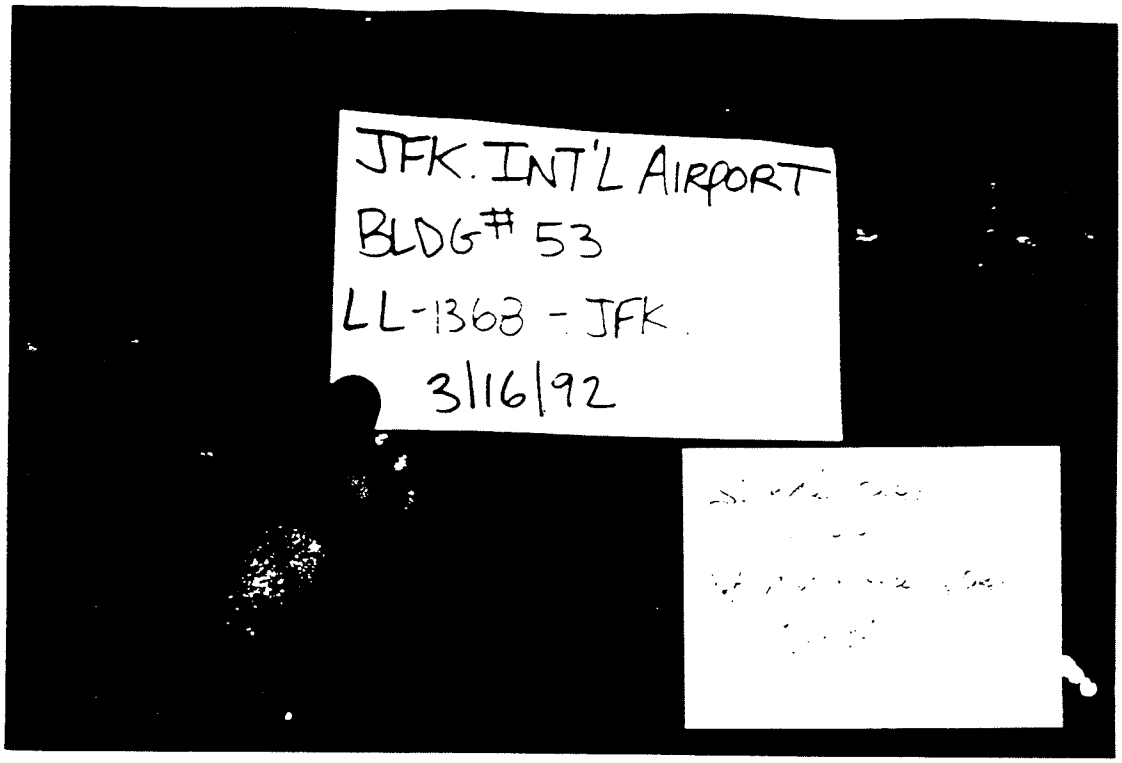
E NUMBER	DESCRIPTION OF SAMPLING LOCATION
L-1353-JFK	CEMENTITIOUS SAMPLE WAS TAKEN FROM THE SECOND FLOOR MER #7 ABOVE THE DOOR ON THE LEFT. (FROM A BEAM)
L-1354-JFK	CEMENTITIOUS SAMPLE WAS TAKEN FROM THE SECOND FLOOR MER #7, NEXT TO AC UNIT. (FROM A BEAM)
L-1355-JFK	CEMENTITIOUS SAMPLE WAS TAKEN FROM THE SECOND FLOOR MER #7, FROM A BEAM IN THE AC/ REPAIR SHOP.
L-1356-JFK	CEMENTITIOUS SAMPLE WAS TAKEN FROM THE SECOND FLOOR MER #17 FROM A BEAM ABOVE AC UNIT
L-1357-JFK	CEMENTITIOUS SAMPLE WAS TAKEN FROM THE SECOND FLOOR MER #7, FROM A BEAM NEXT TO THE DUCT RUN AND 3 FEET FROM SOUTH WALL.
L-1358-JFK	CEMENTITIOUS SAMPLE WAS TAKEN FROM THE SECOND FLOOR MER #7 FROM A BEAM ABOVE AC UNIT.
L-1359-JFK	CEMENTITIOUS SAMPLE WAS TAKEN FROM THE SECOND FLOOR MER #7, FROM A BEAM 15 FEET HORIZONTAL FROM WORK SHOP ENTRANCE.

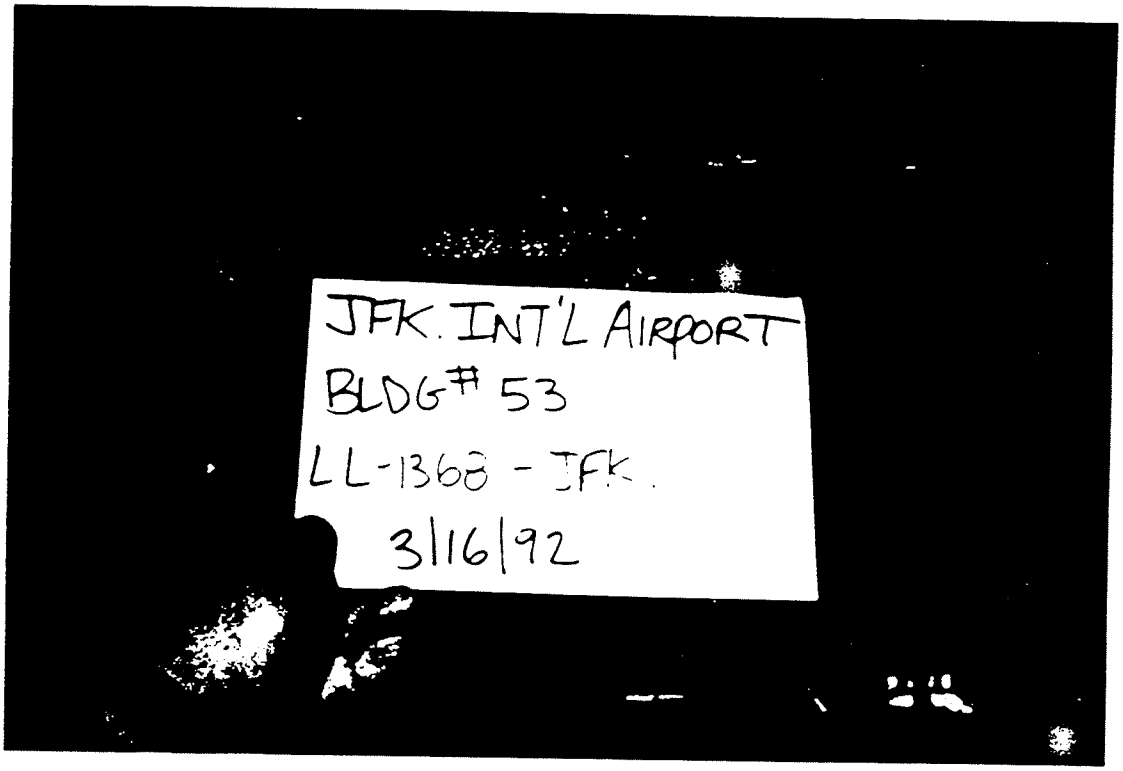
P 702844


JFK Int'l Airport
BLDG 53
LL- 1357- JFK
4-8-91

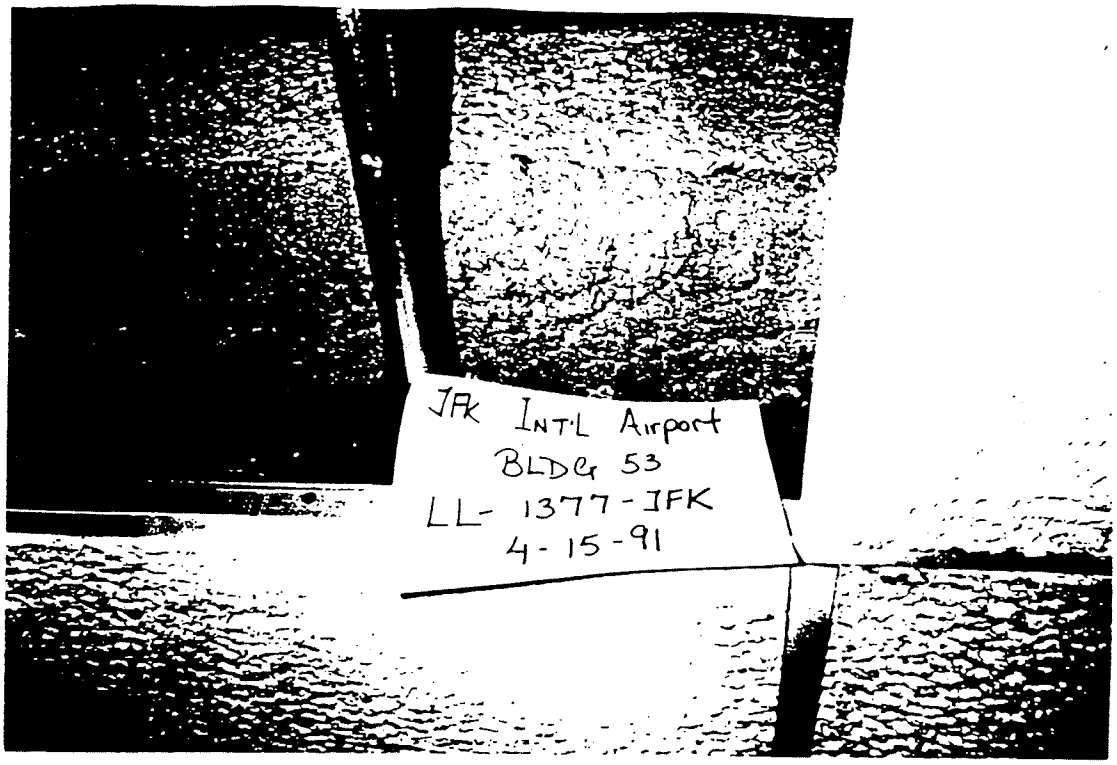

JFK Int'L Airport
BLDG 53
LL- 1357- JFK
4-8-91

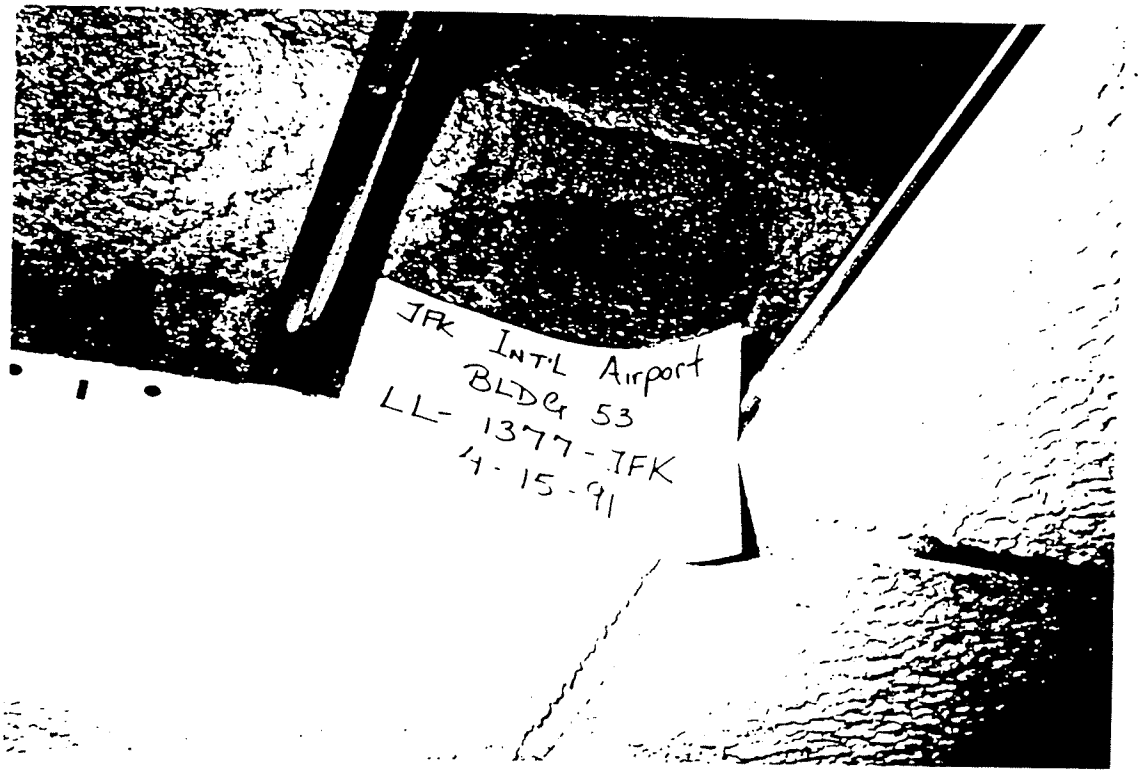
P 702845


JFK. INT'L AIRPORT
BLDG# 53
LL-1368 - JFK.
3/16/92

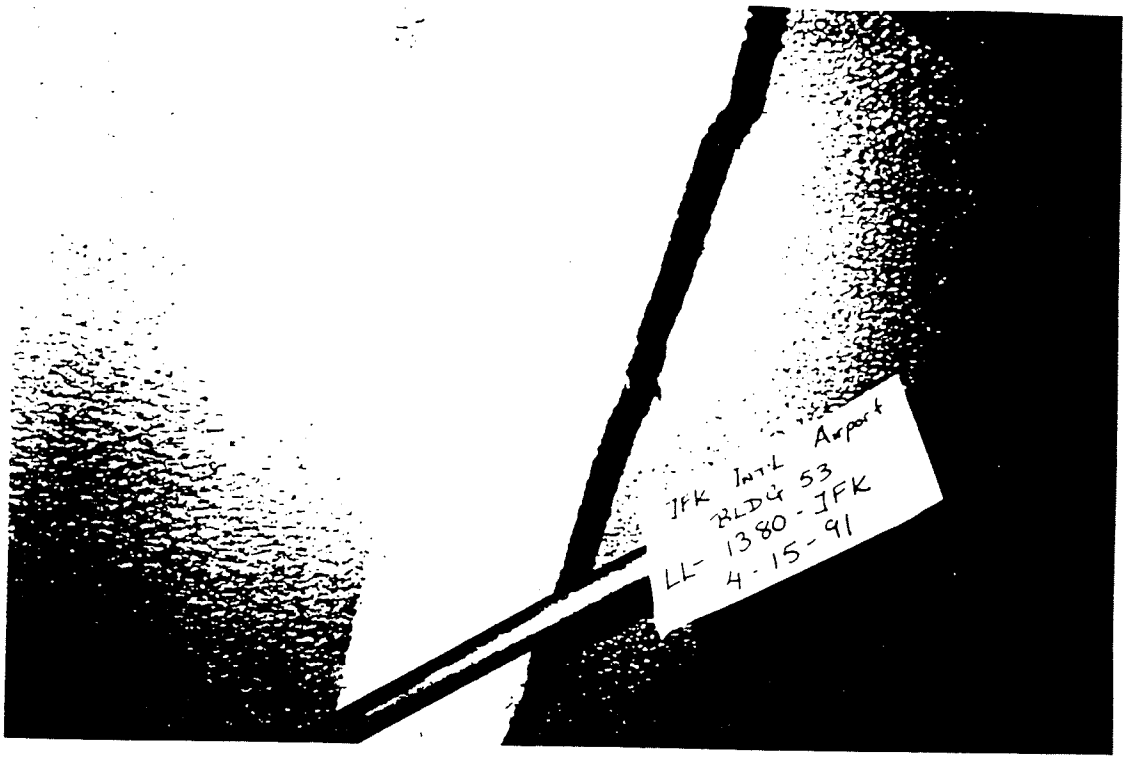

JFK. INT'L AIRPORT
BLDG# 53
LL-1368 - JFK.
3/16/92

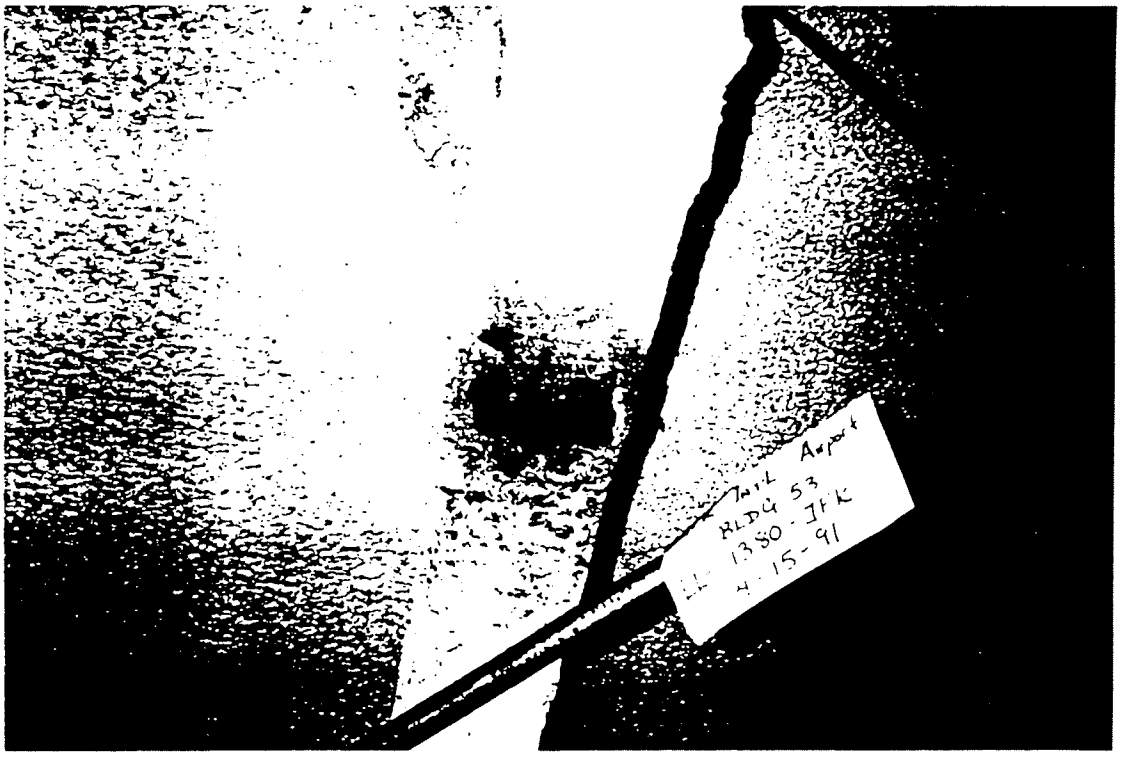
P 702846


JFK Int'l Airport
Bldg 53
LL- 1377 - JFK
4 - 15 - 91

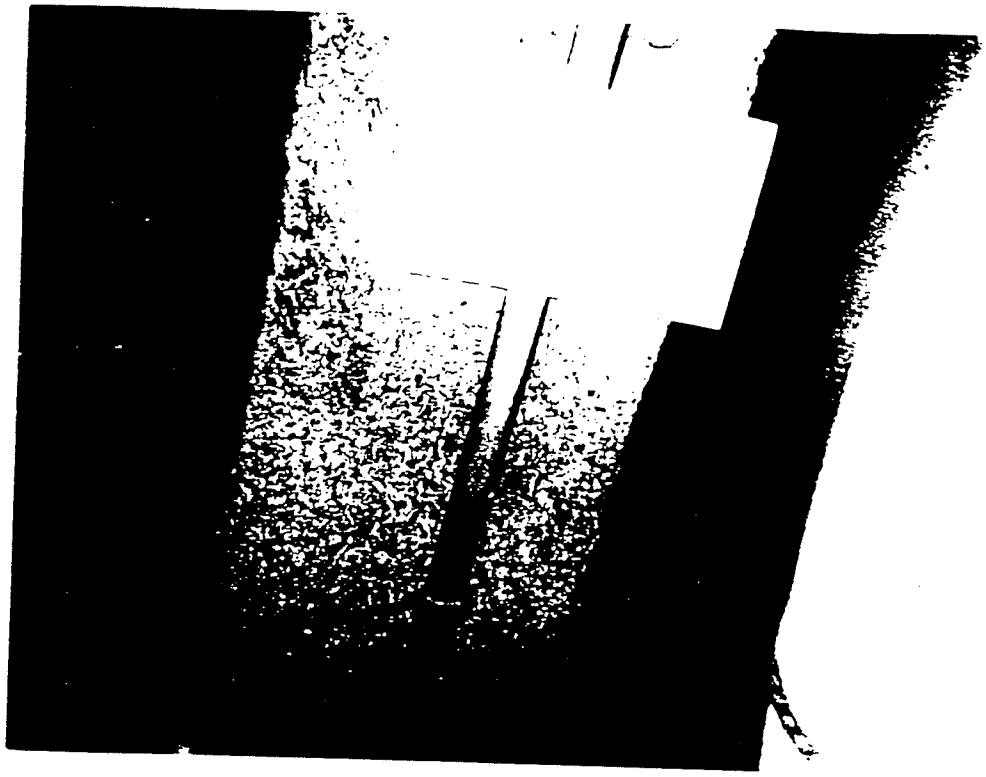

JFK Int'l Airport
Bldg 53
LL- 1377 - JFK
4 - 15 - 91

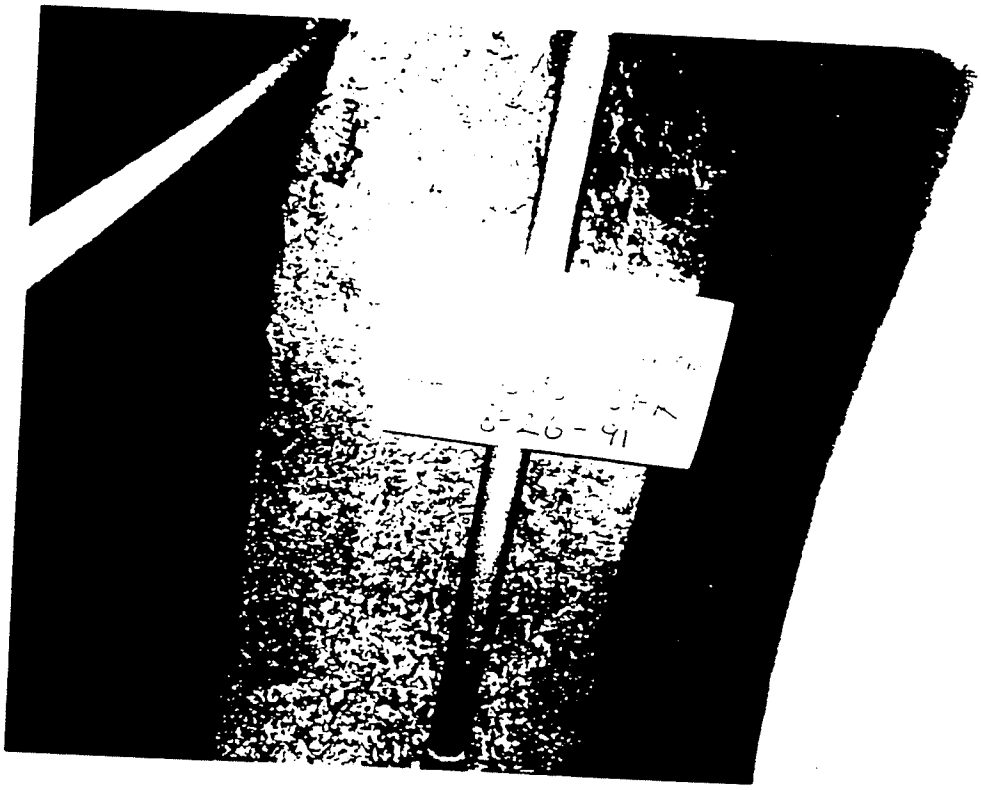
P 702847


JFK Int'l Airport
BLDG 53
LL- 1380 - JFK
4 - 15 - 91

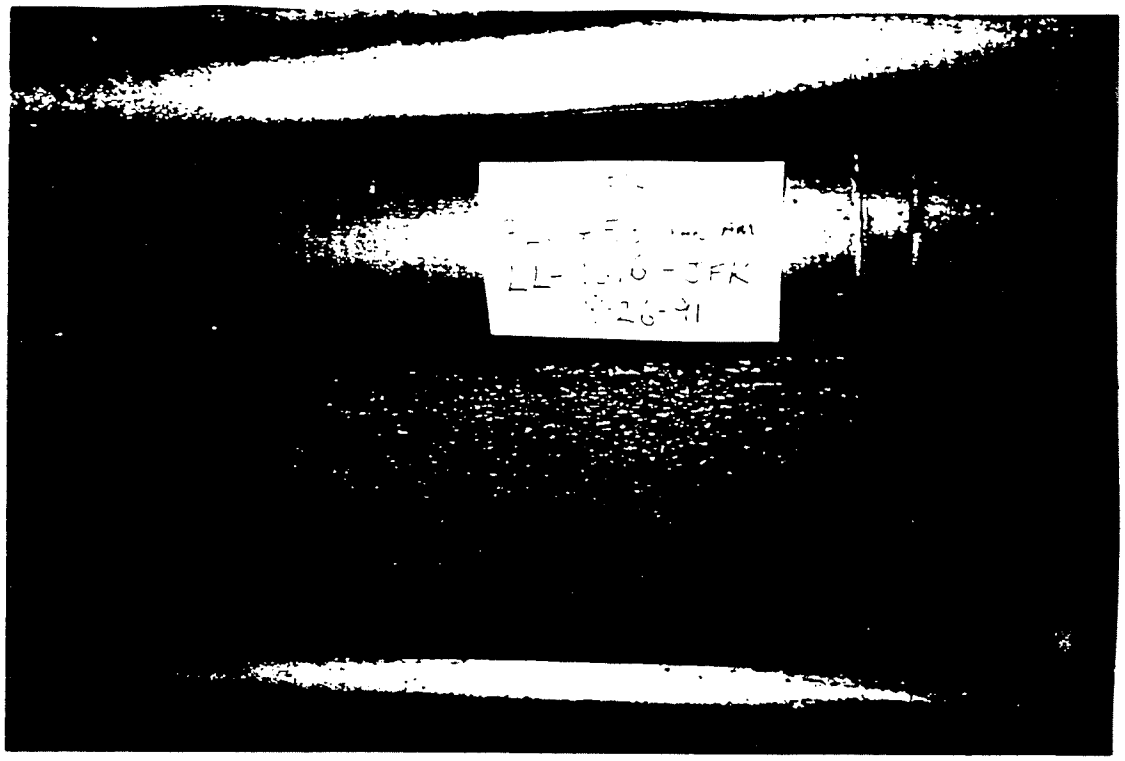

Int'l Airport
BLDG 53
1380 - JFK
4 - 15 - 91

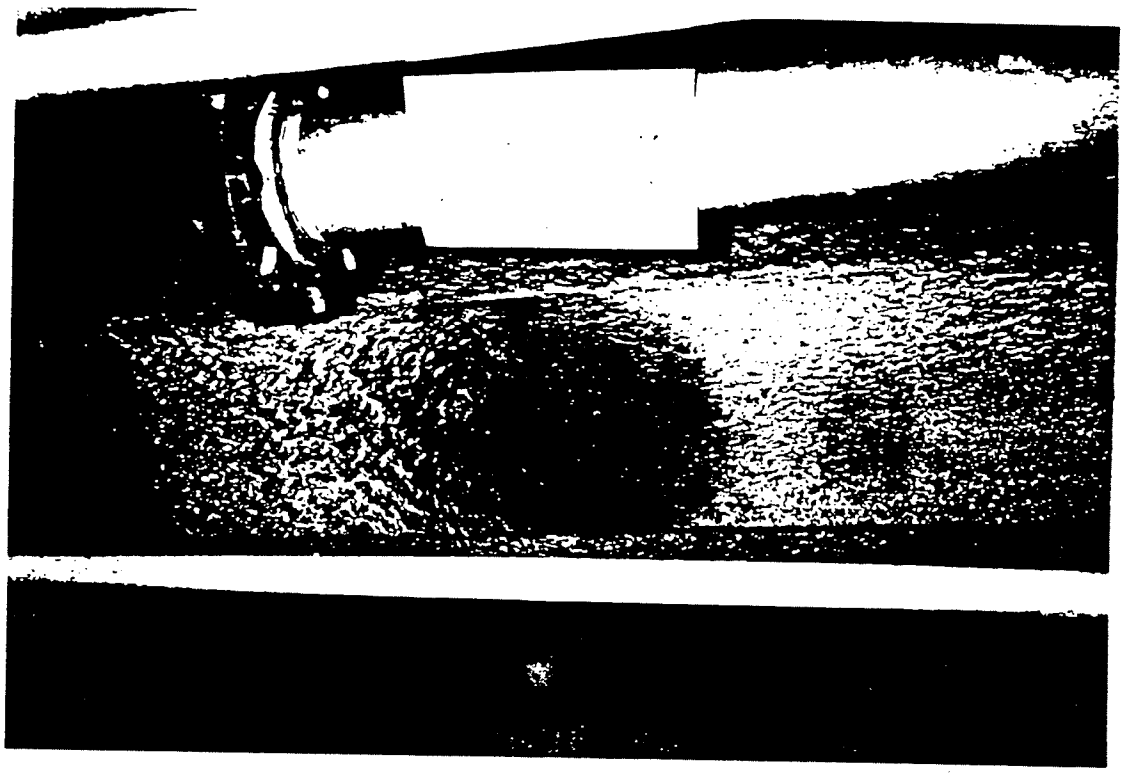
P 702848



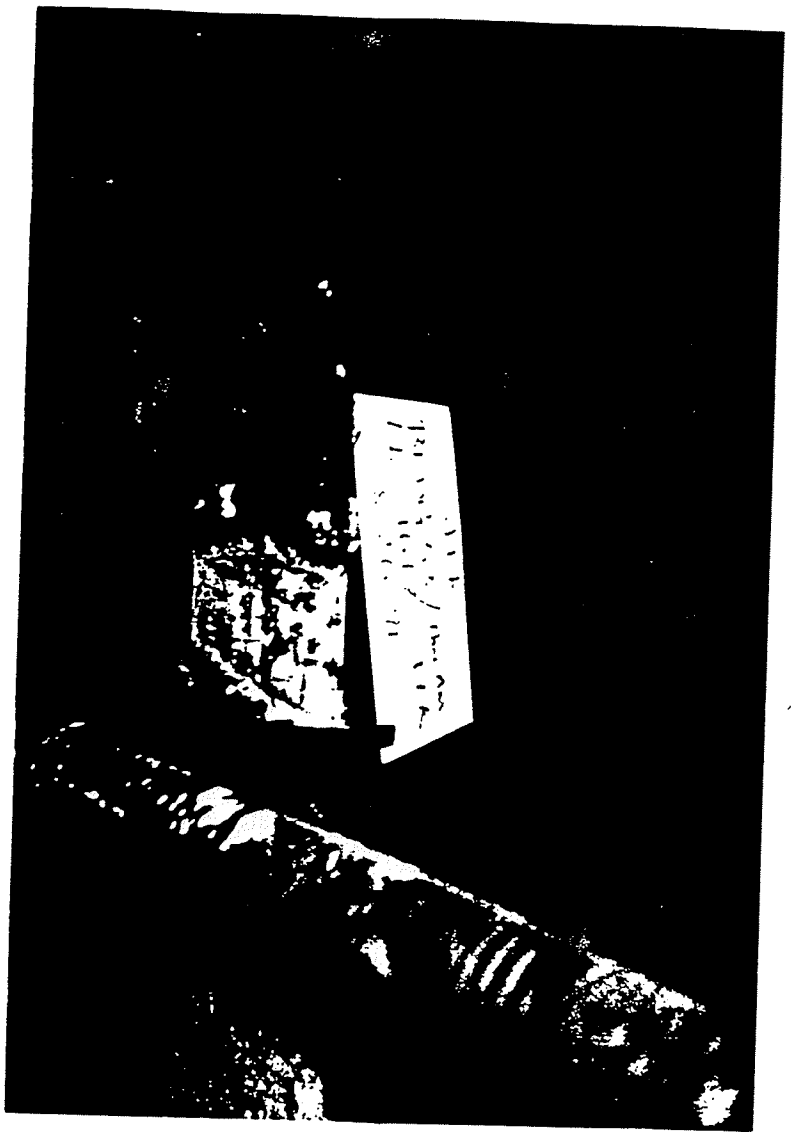


P 702849

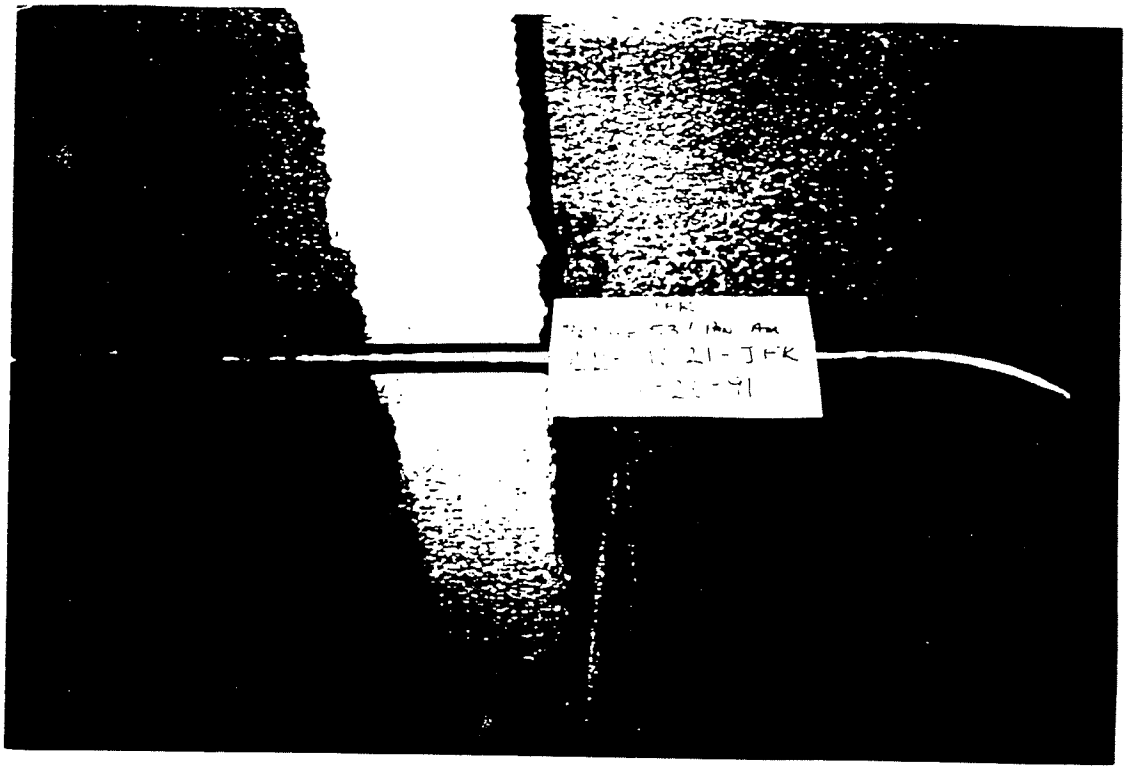


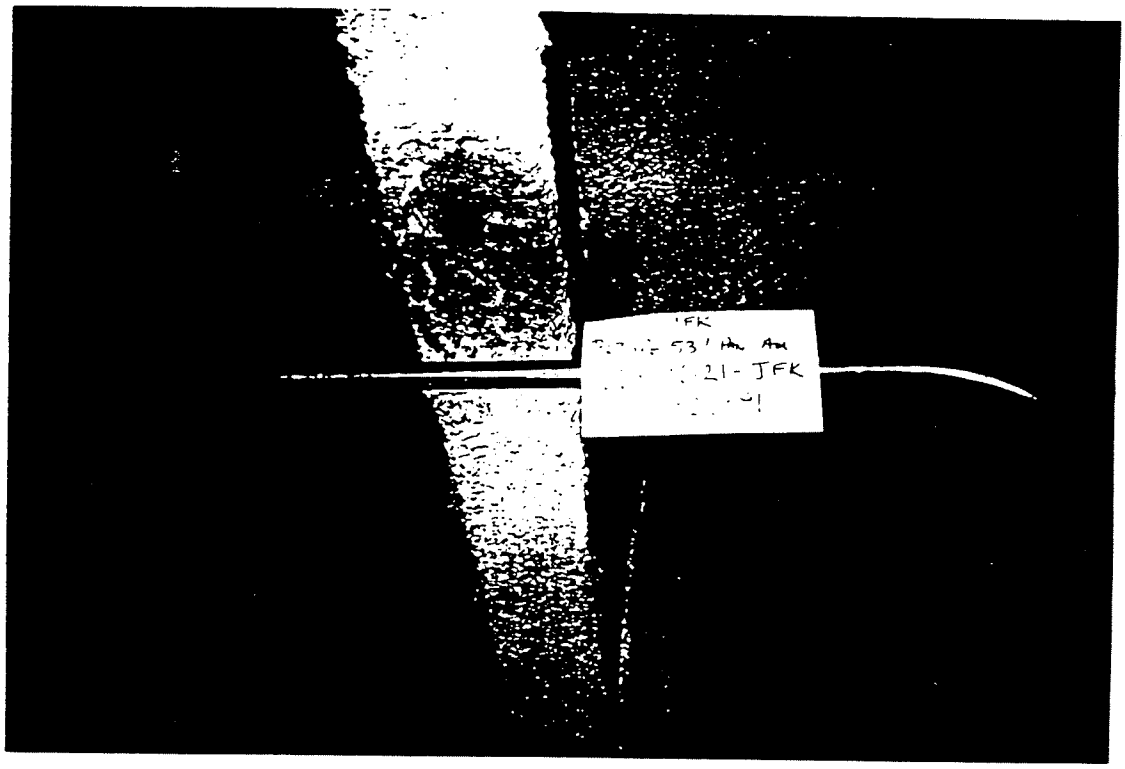


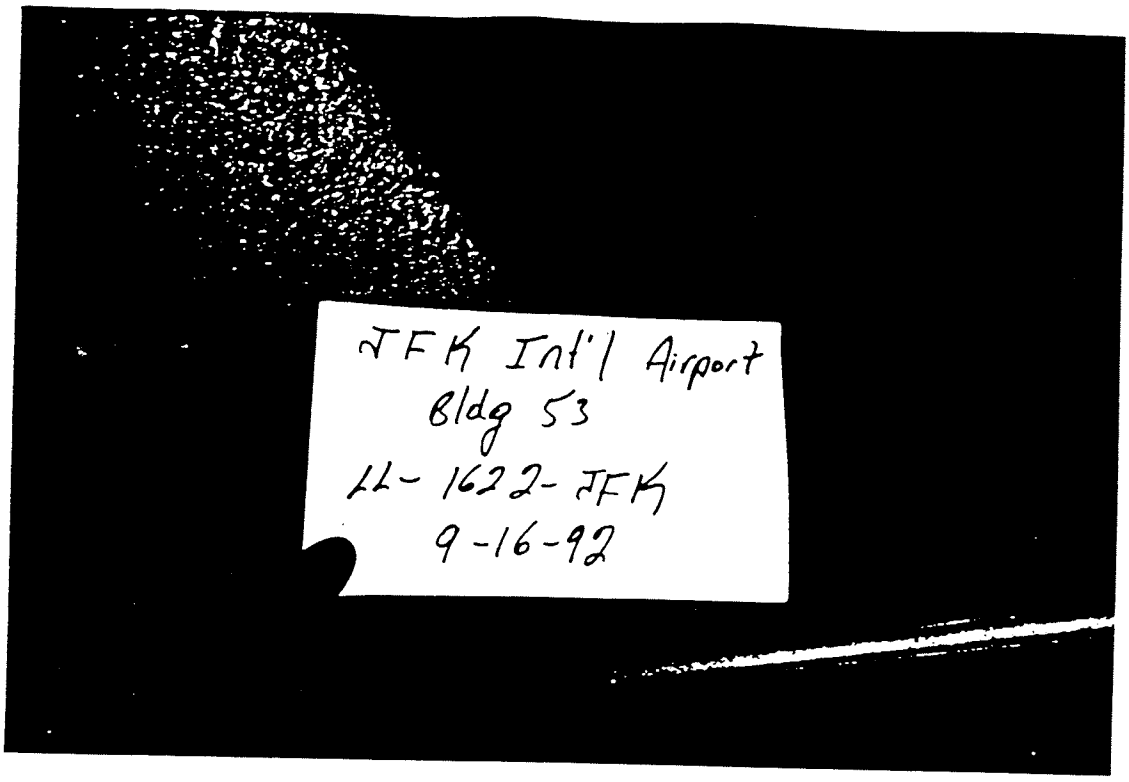
P 702850

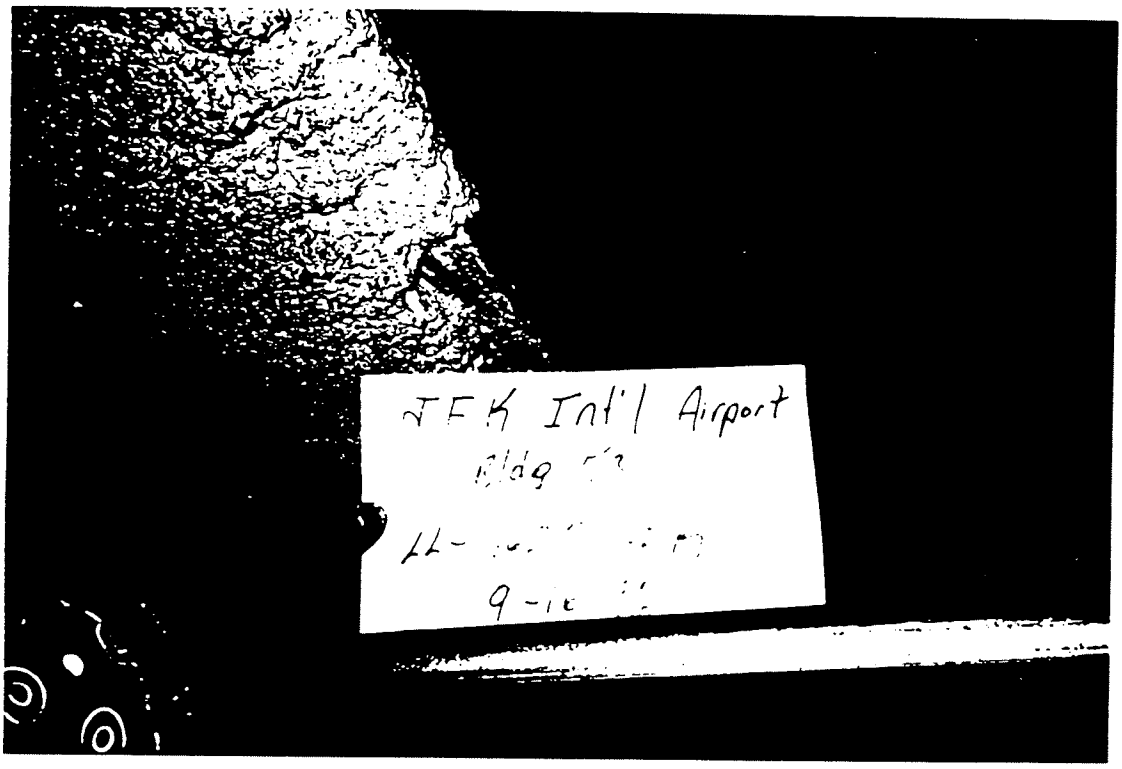


P 702851

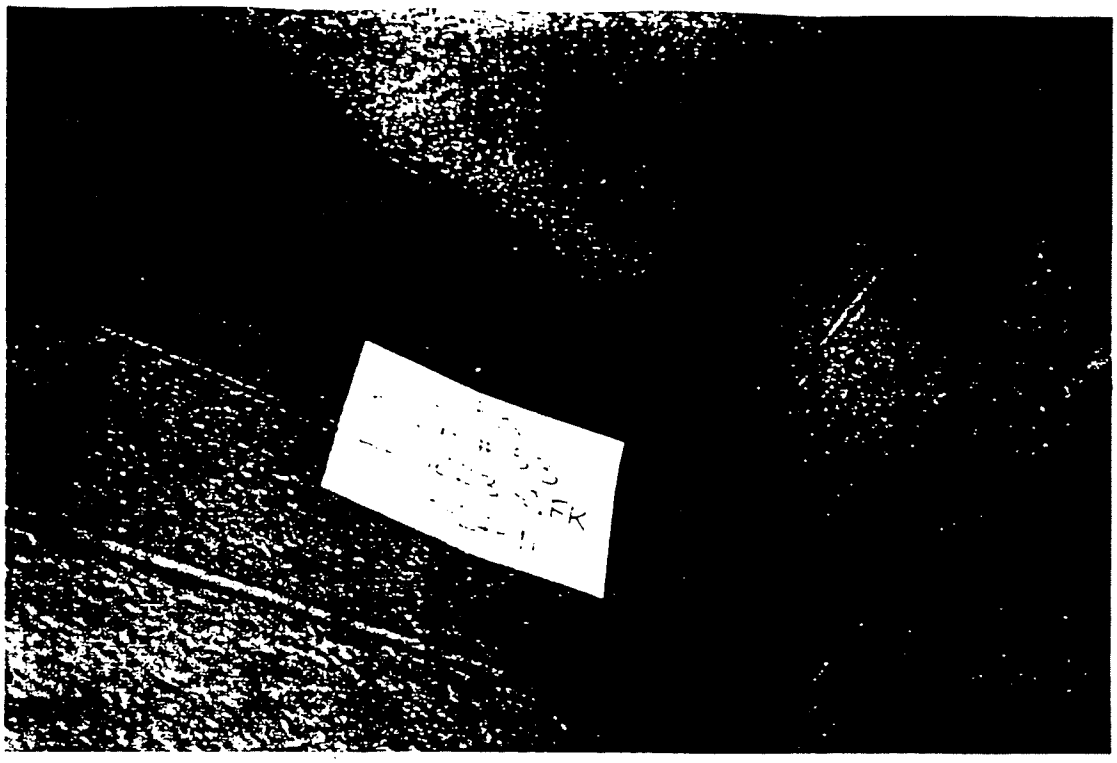


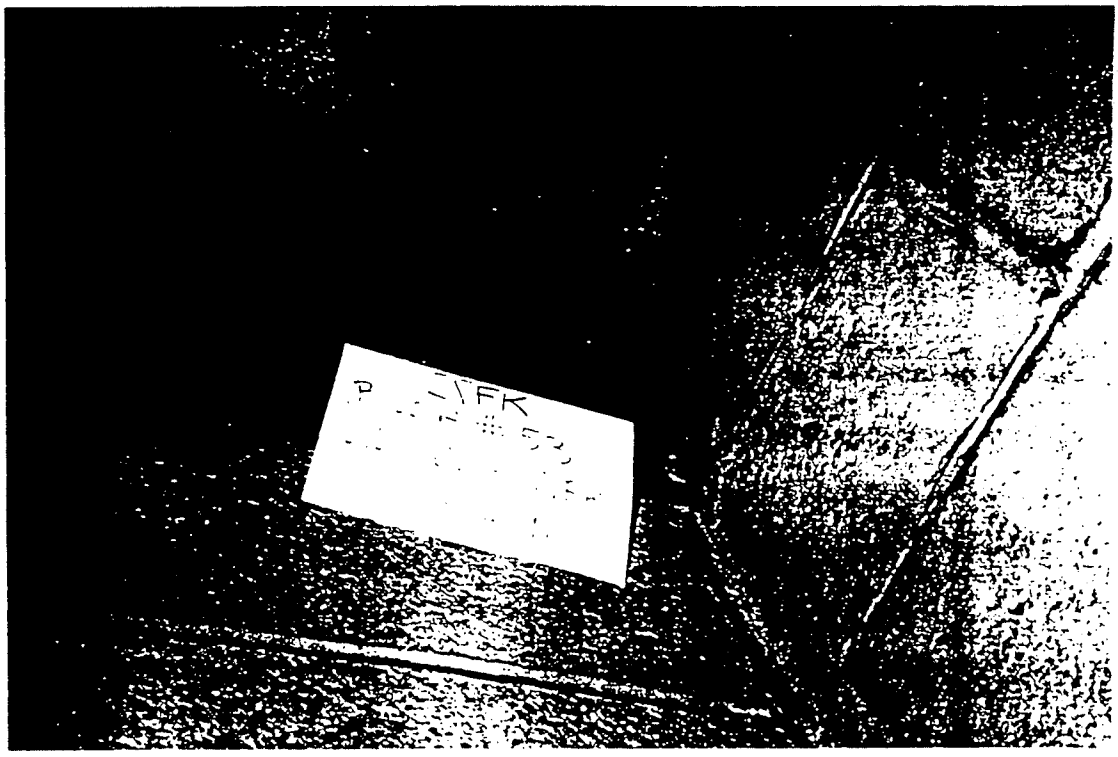


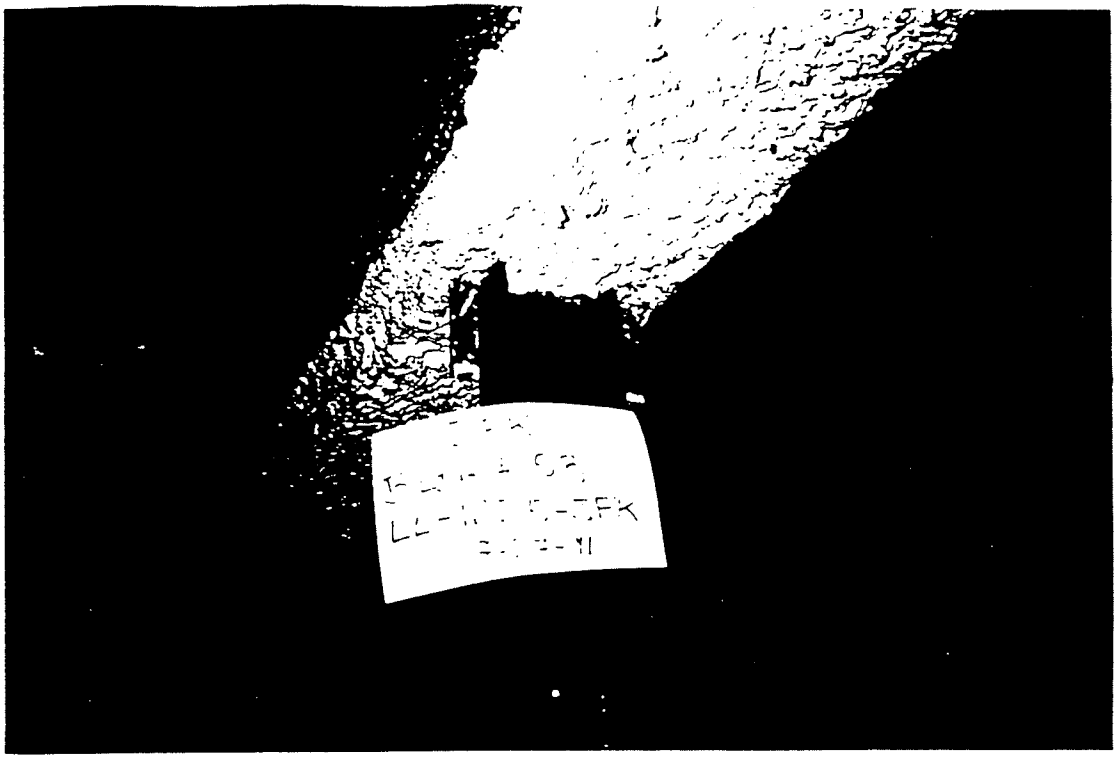




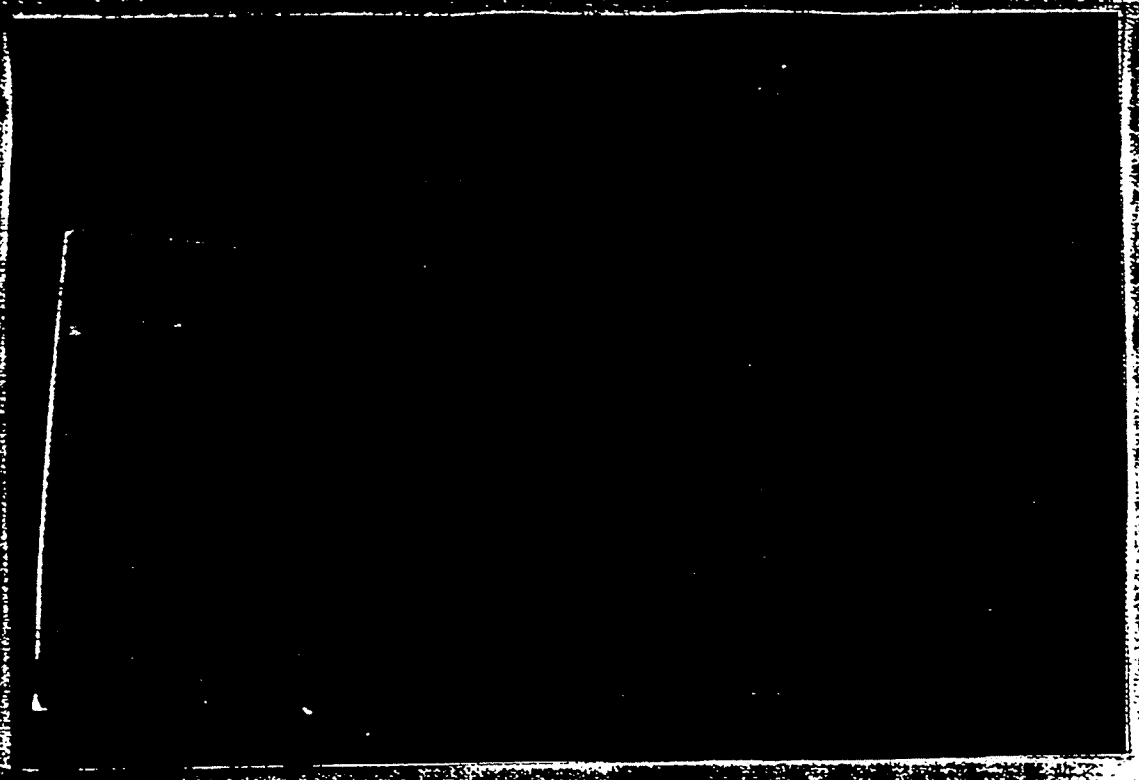
P 702853

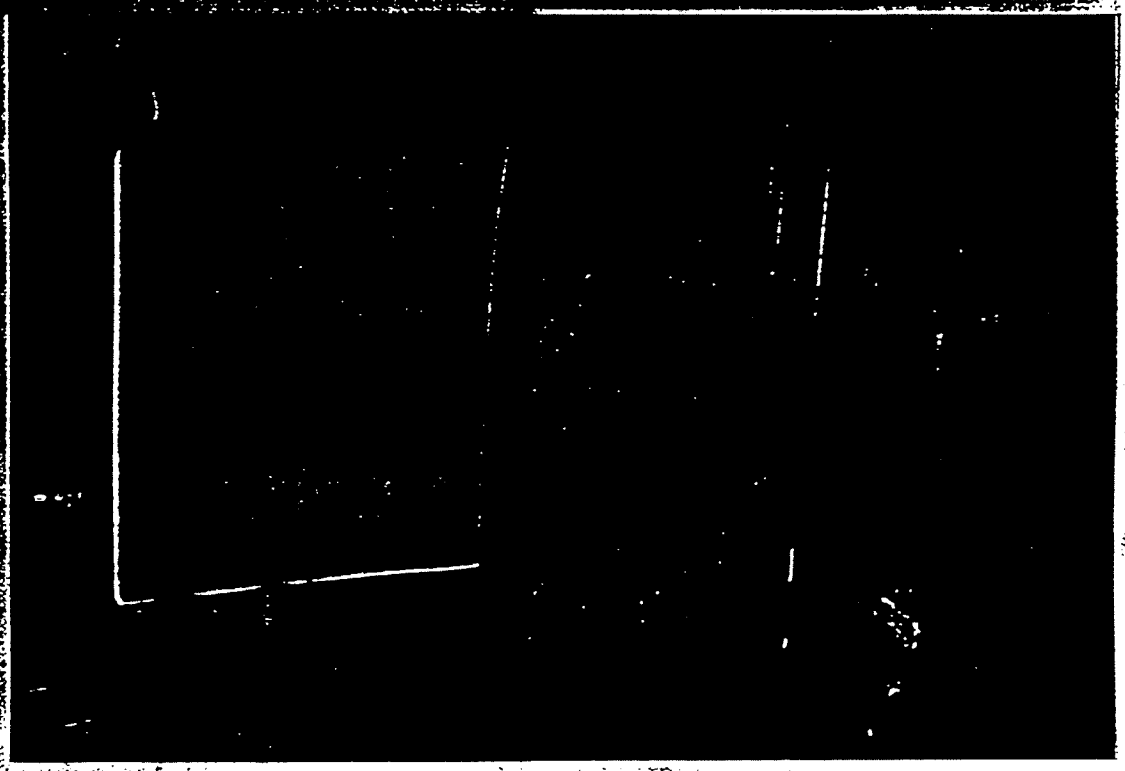






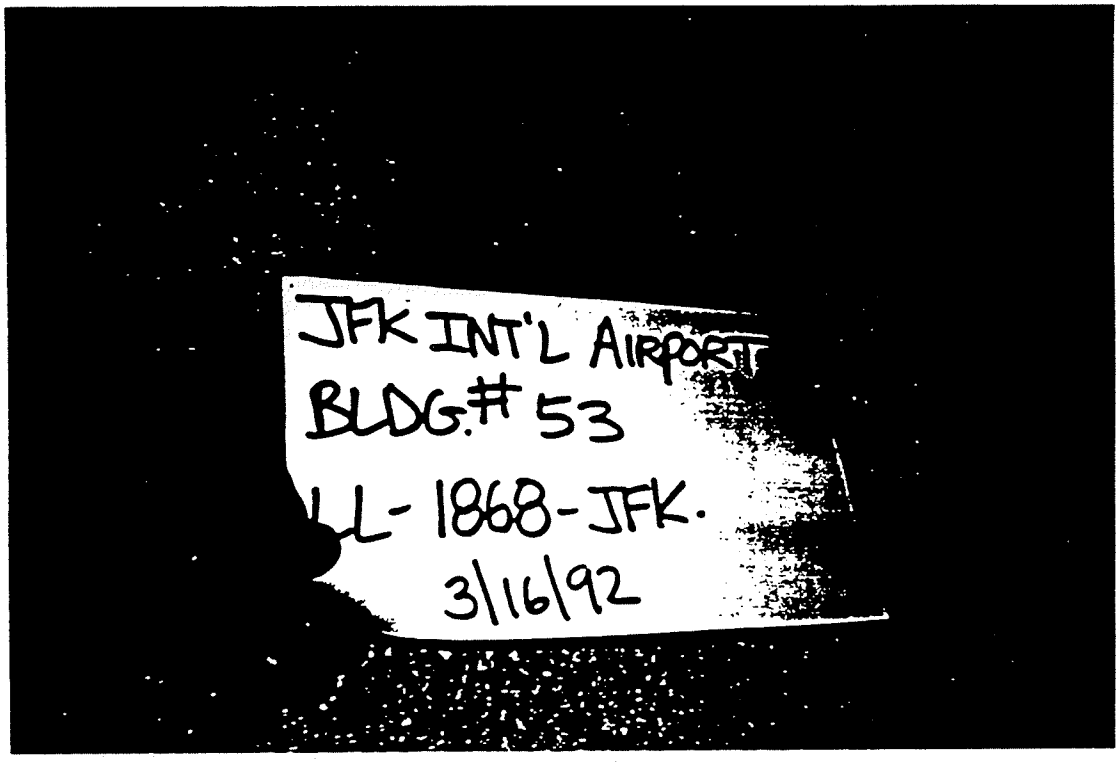
P 702855



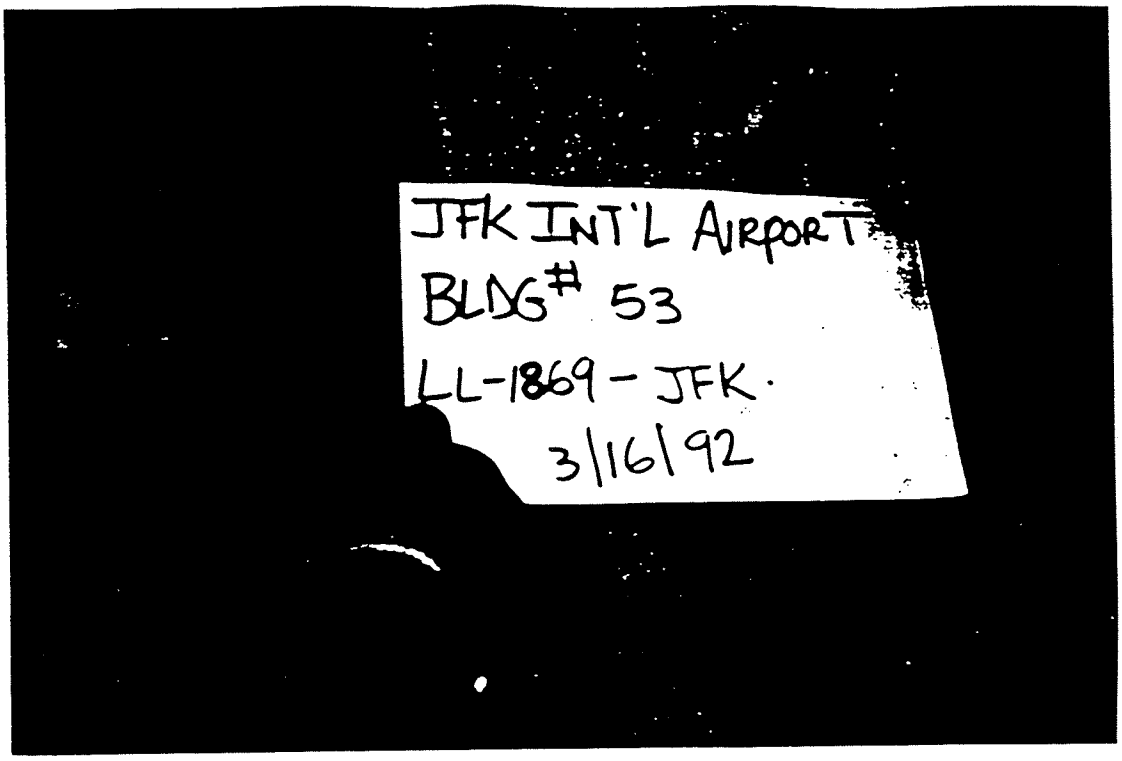


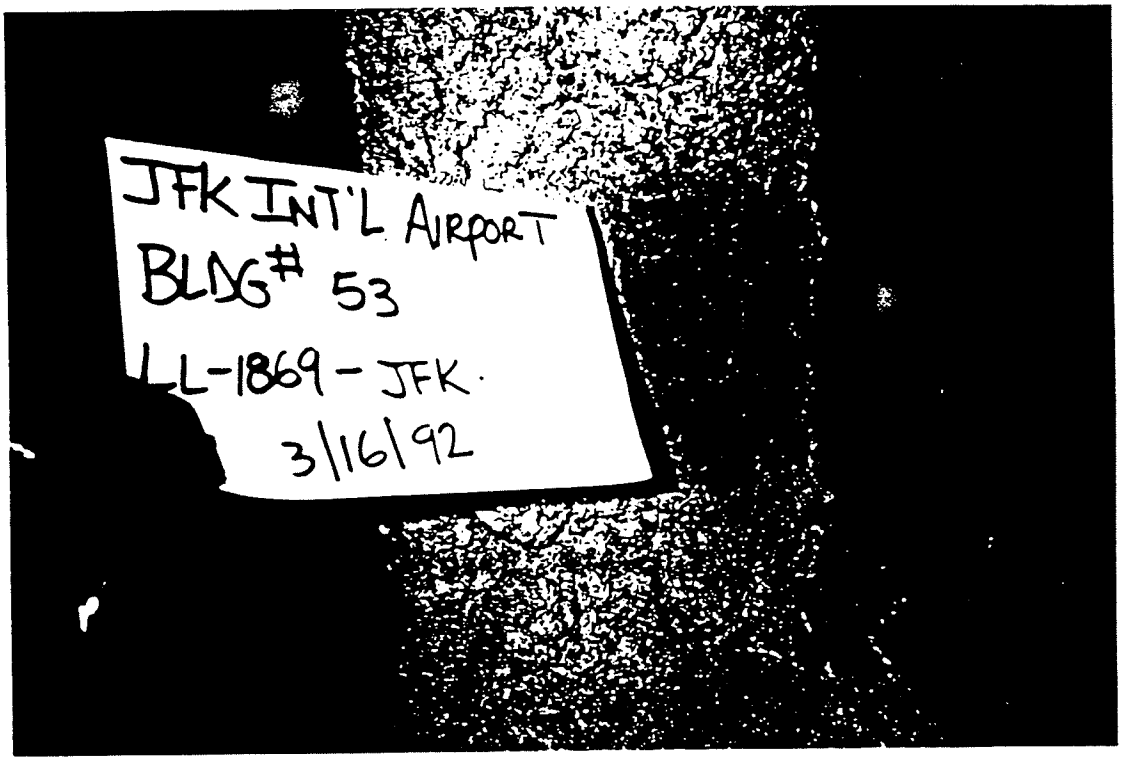
P 702856

JFK INT'L AIRPORT
BLDG.# 53
LL-1868-JFK.
3/16/92

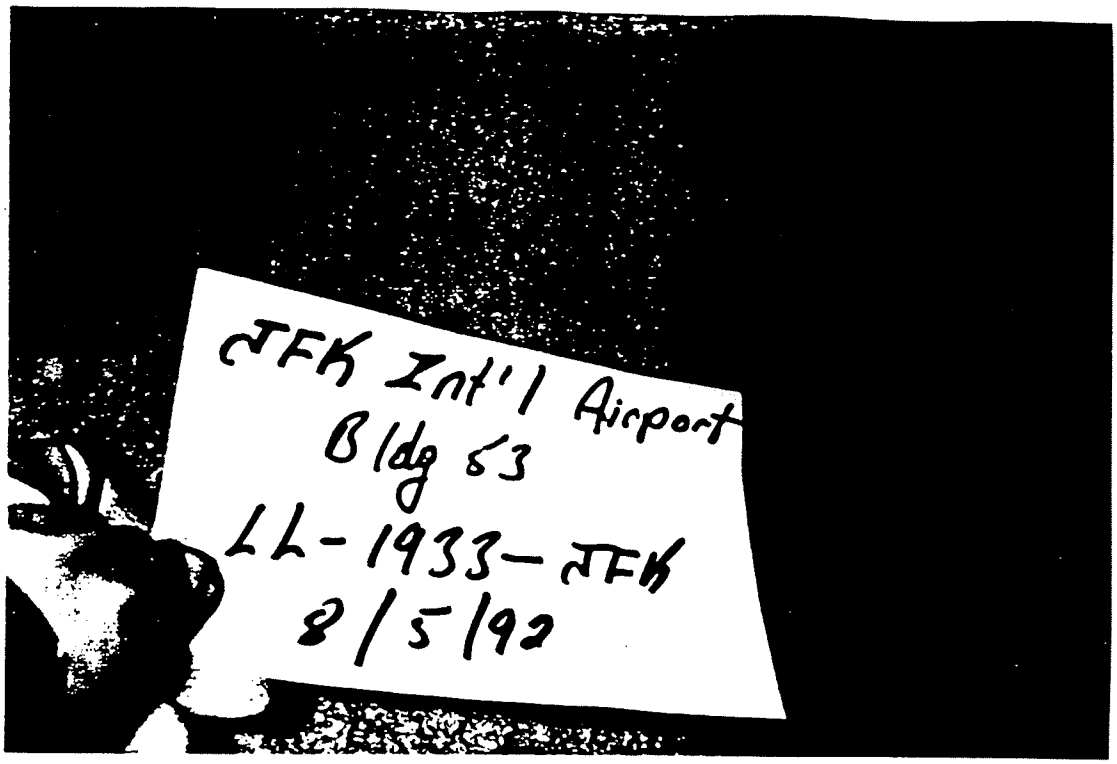

JFK INT'L AIRPORT
BLDG.# 53
LL-1868-JFK.
3/16/92

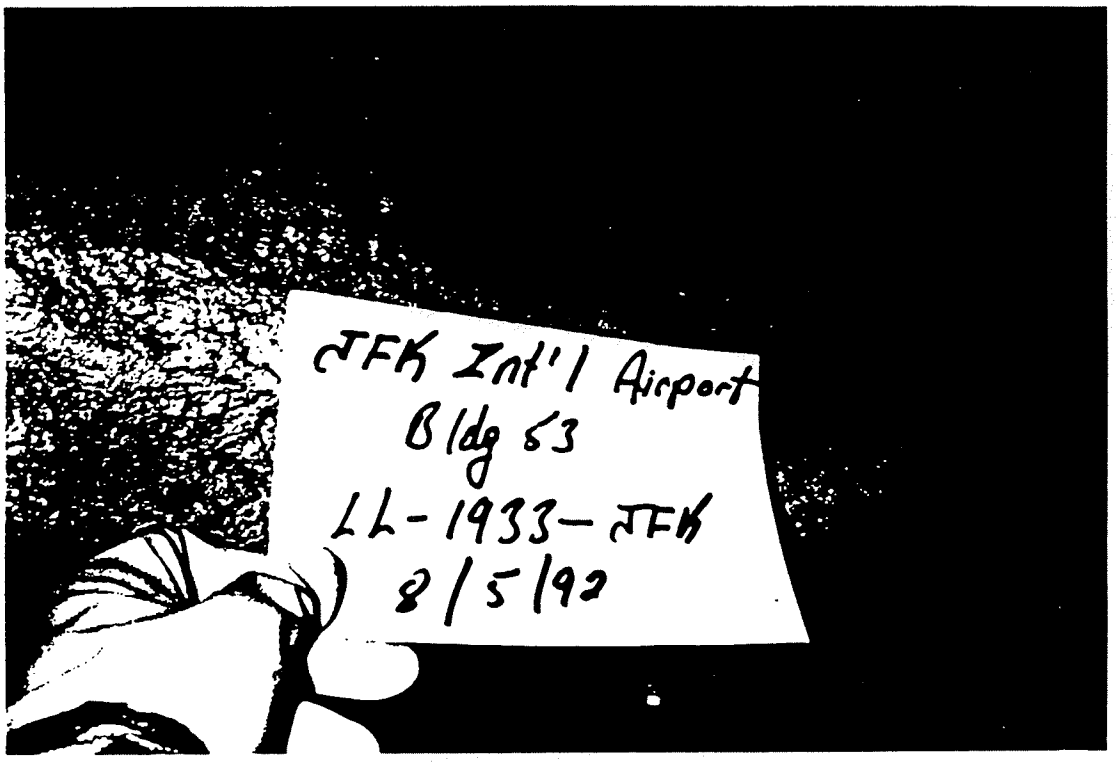
P 702857


JFK INT'L AIRPORT
BLDG# 53
LL-1869 - JFK.
3/16/92

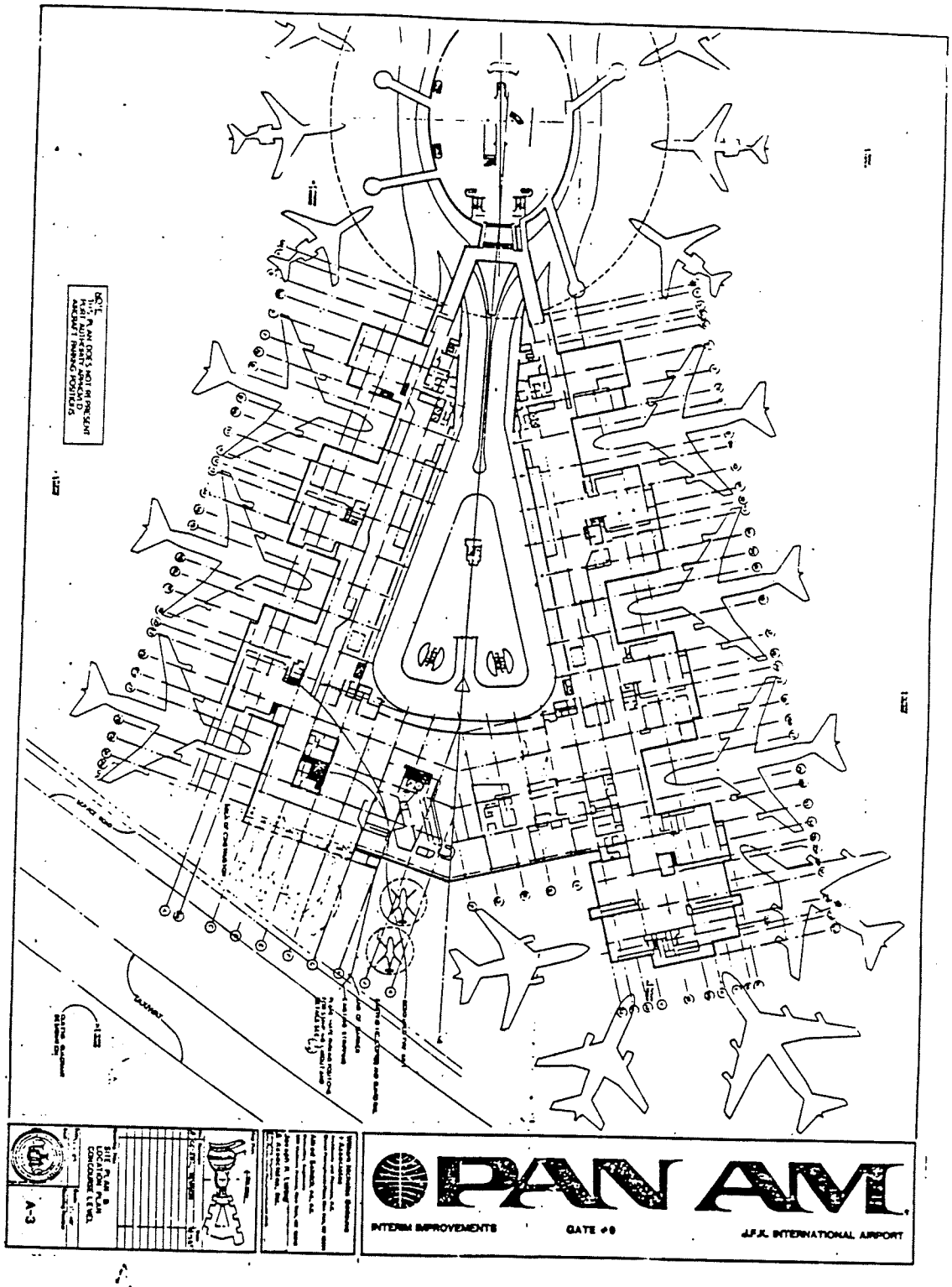

JFK INT'L AIRPORT
BLDG# 53
LL-1869 - JFK.
3/16/92

P 702858


JFK Int'l Airport
Bldg 63
LL-1933-JFK
8/5/92


JFK Int'l Airport
Bldg 63
LL-1933-JFK
8/5/92

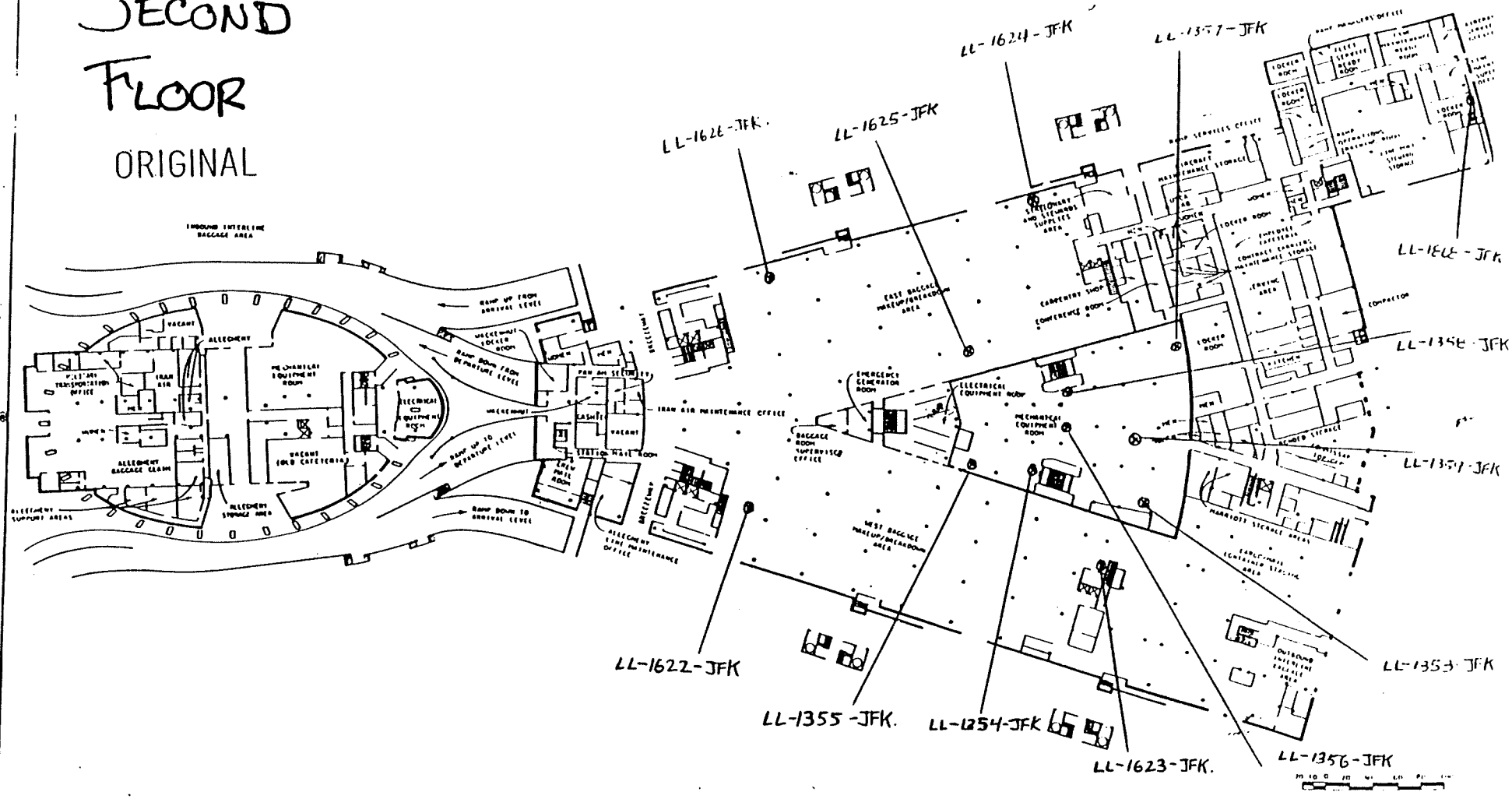
P 702859


PAN AM
INTERIM IMPROVEMENTS
GATE #9
J.F.K. INTERNATIONAL AIRPORT
A-3

P 702860

SECOND FLOOR

ORIGINAL



PAN AMERICAN WORLD AIRWAYS, INC. AIRLINE MASTER PLAN JOHN F KENNEDY INTERNATIONAL AIRPORT NEW YORK, N.Y.	NORTH	PASSENGER TERMINAL FACILITY APRON LEVEL - BUILDING 53 (EXISTING)	PREPARED BY PAN AMERICAN TECHNICAL SERVICES, INC. 1325 N Atlantic Ave Cocoa Beach, Florida 32931

NO. | DATE | DESCRIPTION

ENGINEER | APPROVED
DRAWN | APPROVED
SUBMITTED | APPROVED

DWG 3-

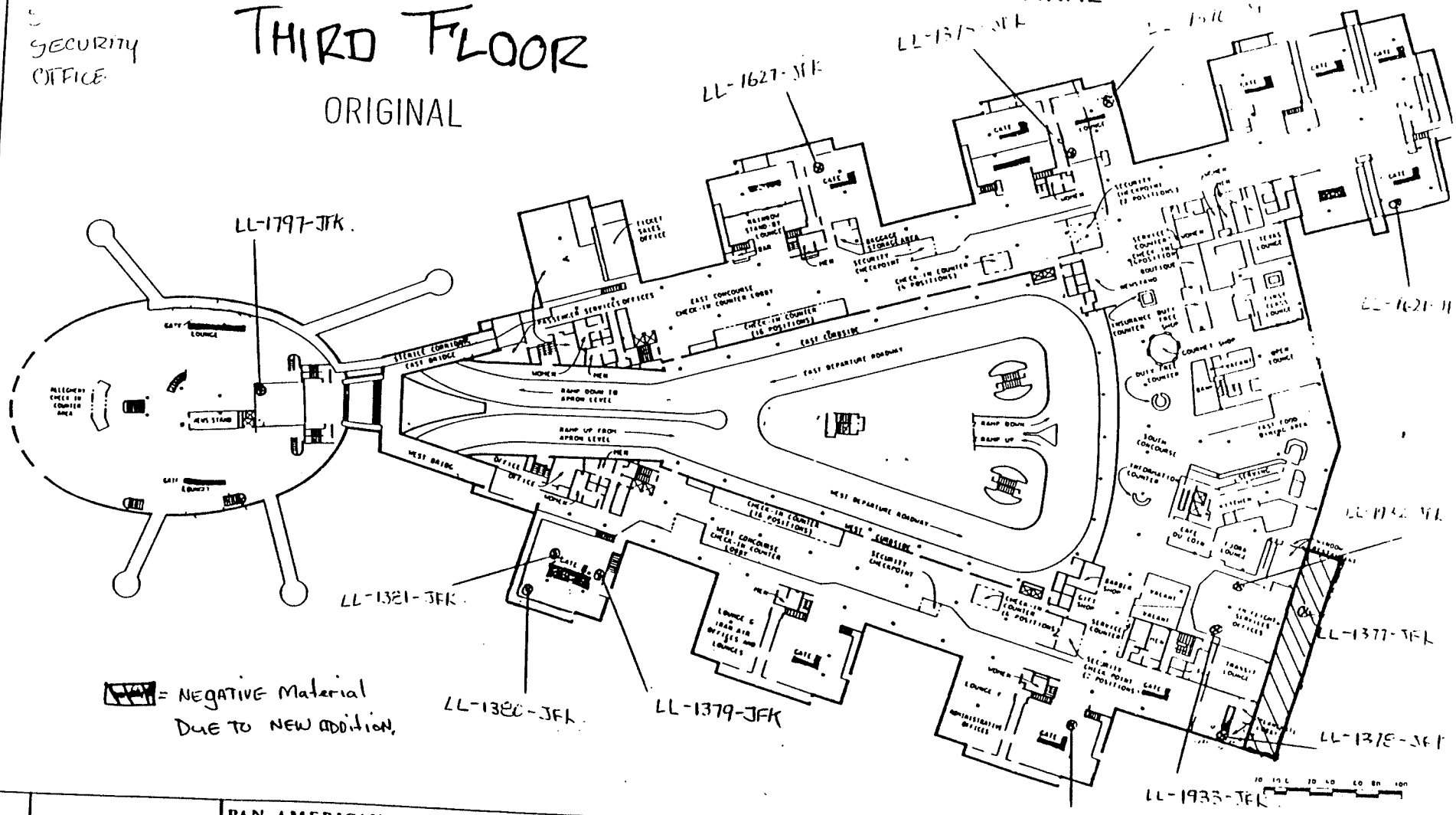
P 702861

SECURITY OFFICE

THIRD FLOOR

ORIGINAL

ORIGINAL



PAN AMERICAN WORLD AIRWAYS, INC.
AIRLINE MASTER PLAN

JOHN F KENNEDY INTERNATIONAL AIRPORT NEW YORK, N.Y.

PASSENGER TERMINAL FACILITY
CONCOURSE LEVEL
BUILDING 53 (EXISTING)

PREPARED BY:
PAN AMERICAN TECHNICAL SERVICES, INC.
1325 N Atlantic Ave Cocoa Beach, Florida 32931

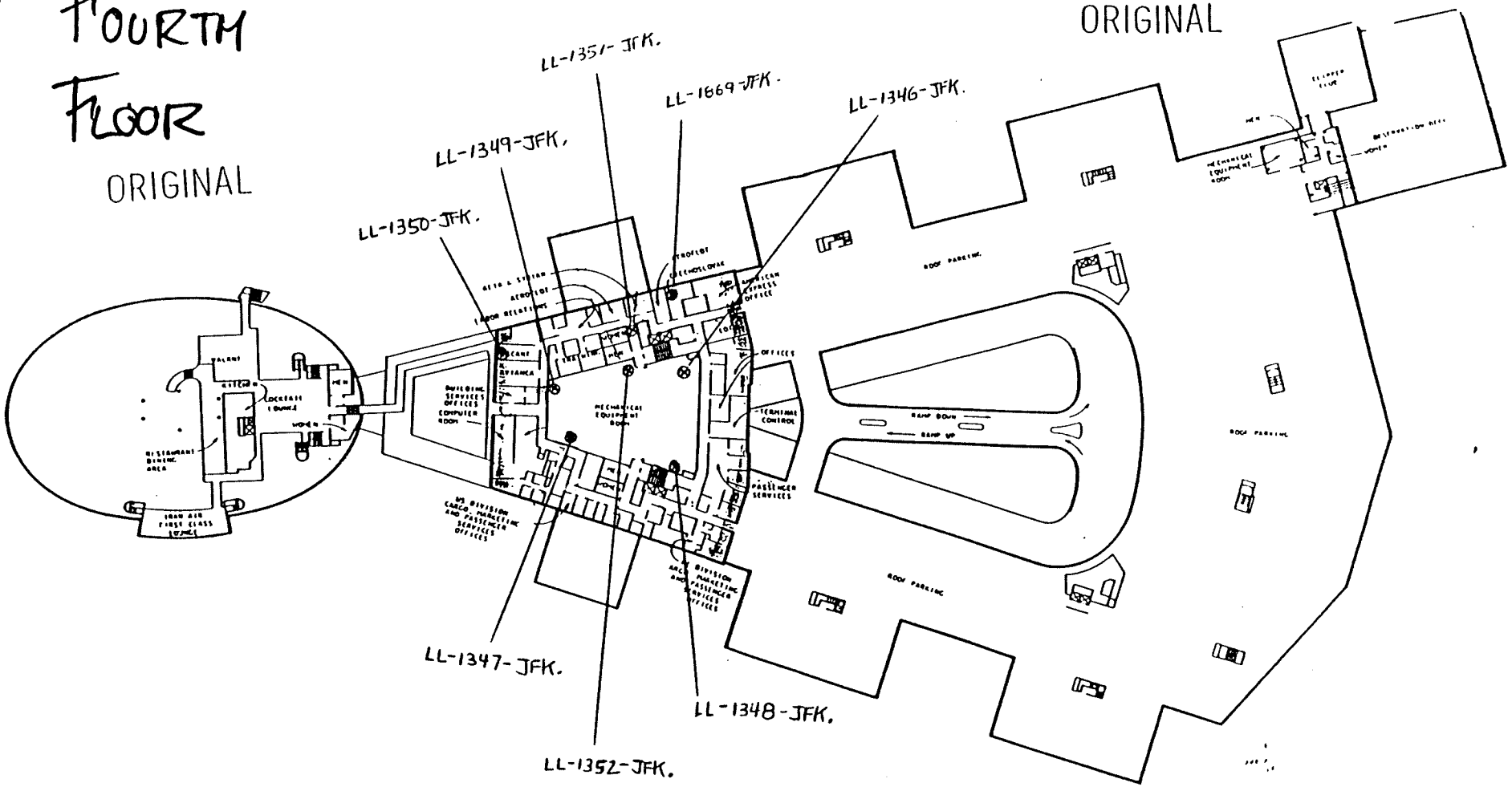
DWG 3

P 702862

FOURTH FLOOR

ORIGINAL

ORIGINAL



PAN AMERICAN WORLD AIRWAYS, INC.
AIRLINE MASTER PLAN

JOHN F. KENNEDY INTERNATIONAL AIRPORT NEW YORK, N.Y.

PASSENGER TERMINAL FACILITY
ROOF / MEZZANINE LEVEL
BUILDING 53 (EXISTING)

PREPARED BY
PAN AMERICAN TECHNICAL SERVICES, INC.
1325 N. Atlantic Ave. Cocoa Beach, Florida 32931

DWG
3-1

P 702863

MATERIALS
ANALYTICAL
SERVICES

September 21, 1992

Mr. Kevin Bleach
The Port Authority of New York & New Jersey
One World Trade Center, 37E
New York, NY 10048

RE: JFK Airport Facility/Building 53

Dear Mr. Bleach:

We have completed our bulk analysis for the two non-asbestos containing fireproofing samples that we received from the above referenced project.

Our analysis shows that sample # LL-1377-JFK-B was consistent with W.R. Grace's Monokote-5 and sample # LL-1609-JFK-C was consistent with W.R. Grace's Monokote-4.

If you have any questions about our report, please do not hesitate to give me a call.

Sincerely,

William E. Longo, Ph.D.
President

WEL:lcj

P 702864

gh Office:
4418 Blue Ridge Road • Suite 105
Raleigh, North Carolina 27607
(919) 881-7708 • FAX (919) 881-8227

Atlanta Office:
3597 Parkway Lane • Suite 250
Norcross, Georgia 30092
(404) 448-3200 • FAX (404) 368-8256

MATERIALS ANALYTICAL SERVICES

MAS CHAIN-OF-CUSTODY

Client: PORT AUTHORITY OF NY & NJ

Contact: KEVIN BLEACH

Phone #: (212) 435-6145

Mas Job #: M8219

Date Recd: 4/2/92

Client PO: JFK AIRPORT FACILITY/BUILDING 53

BULK SAMPLE ANALYSIS

SAMPLE NUMBER(S)

1) LL-1347-JFK-C	11) LL-1621-JFK-C
2) " 57 " B	12) " 2 "
3) " 68 " B	13) " 3 " B
4) " 76 "	14) " 5 C
5) " 77 "	15) " 1797 " X
6) " 80 " C	16) " 1868 " A
7) " 1615-JFK-A	17) " 9 "
8) " 6 B	18)
9) " 7 " C	19)
10) " 9 "	20)

Samples Relinquished By: KEVIN BLEACH

Samples Recd. By: [signature] Time: 2:00 PM

Condition of Samples: O.K.

Client Docs: 4 COVER LETTER (ORIG. IN M8181), 17 COC, UPS

Init File Rev: _____

Sample Prep by: _____ Date: _____

Sample Analysis: _____ Date: _____

Report(s) Sent: _____ Date: _____

Sample(s) Ret. By: _____ Date: _____

3597 Parkway Lane • Suite 250
Norcross, Georgia 30092
(404) 448-3200 FAX (404) 368-8256

P 702865

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

Project # - Spl #: M8219-5 Date: 23APR92

Project Name: PORT AUTHORITY of NY & NJ Analyst: SFB

Sample Identification: JFK Airport Facility / Building 53
LL-1377-JFK-B

Gross Visual Description: lt. brown with straight rods, golden flakes, ribbony fibers, and fine grain matrix. No Paint Observed.

Optical Data for Asbestos Identification

Morphology			
Pleochroism			
Refractive Index			
Sign of Elongation			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS:	Est. Vol. %
Chrysotile	NAD
Amosite	
Crocidolite	
Tremolite/Actinolite	
thophyllite	

OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool	
Fibrous glass	9
Cellulose	10
Synthetic	
Other	

NON-FIBROUS COMPONENTS:	
Perlite	
Vermiculite	
Other	22
Binders	59

Gypsum, fine grain aggregate

EFFERVESCENCE: Moderate

COMMENTS: Ribbony cellulose Observed. Woody shreds not Observed.

P 702866

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

Project # - Spl #: M8219-10 Date: 24APR92

Project Name: PORT AUTHORITY of NY & NJ Analyst: SFB

Sample Identification: JFK Airport Facility / Building 53
LL-1619-JFK-C

Gross Visual Description: Lt. Brown with golden flakes, fine grain matrix, and occasional ribbony fibers. No Paint Observed.

Optical Data for Asbestos Identification

Morphology	↓		
Pleochroism			
Refractive Index			
Sign of Elongation			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS:	Est. Vol. %
Chrysotile	NAO
Amosite	
Crocidolite	
Tremolite/Actinolite	
Anthophyllite	

OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool	
Fibrous glass	
Cellulose	2
Synthetic	
Other	

NON-FIBROUS COMPONENTS:	
Perlite	
Vermiculite	33
Other	
Binders	65

Gypsum, some carbonate, fine grain aggregate.

EFFERVESCENCE: low to moderate

COMMENTS: No Starch Observed.

P 702867

Box # ALTF-

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler A. Wilmoth Sample Number LL-1377-JFK-B Date Sample Taken 4.15.91

Building Number/Name 53 Facility JFK

Sample delivered and secured within sample storage room by: [signature] date/time 4.15.91/1400

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: C. Rodriguez date/time 4-16-91 0300

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Mailed to Analytical Laboratory by: [signature] date/time 4/1/92 1630

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY!

Sample Received by Analytical Laboratory: [signature] date/time 4-2-92 2PM
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

P 702868

MTC STORAGE ROOM

Box # ALTF- 134

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler F. DAMBREVILLE Sample Number LL-1619-JFK-C Date Sample Taken 8/28/91

Building Number/Name #53 Facility JFK

Sample delivered and secured within sample storage room by: F. Dambreville date/time 8/27/91 0400

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: Kevin Rhode date/time 8/30/91, 4pm

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Mailed to Analytical Laboratory by: Kevin Rhode 4/1/92 16 date/time _____

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY!

Sample Received by Analytical Laboratory Jane K. Ku IMAS 4-2- date/time 21
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

P 702869

WTC STORAGE ROOM

MATERIALS ANALYTICAL SERVICES

MAS CHAIN-OF-CUSTODY

Client: PORT AUTHORITY OF NY & NJ

Contact: KEVIN BLEACH

Phone #: (212) 435-6145

Mas Job #: M8219

Date Recd: 4/2/92

Client PO: JFK AIRPORT FACILITY/BUILDING 53

BULK SAMPLE ANALYSIS

SAMPLE NUMBER(S)

1) LL-1347-JFK-C
2) " 57 " B
3) " 68 " B
4) " 76 "
5) " 77 "
6) " 80 " C
7) " 1615-JFK-A
8) " 6 B
9) " 7 " C
10) " 9 "
11) LL-1621-JFK-C
12) " 2 "
13) " 3 " B
14) " 5 C
15) " 1797 " X
16) " 1868 " A
17) " 9 "
18)
19)
20)

Samples Relinquished By: KEVIN BLEACH

Samples Recd. By: [signature]

Time: 2:00 PM

Condition of Samples: O.K.

Client Docs: 4 COVER LETTER (ORIG. IN M8181), 17 COC, UPS

Init File Rev:

Sample Prep by: Date:

Sample Analysis: Date:

Report(s) Sent: Date:

Sample(s) Ret. By: Date:

P 702870

3597 Parkway Lane • Suite 250
Norcross, Georgia 30092
(404) 448-3200 FAX (404) 368-8256

MATERIALS ANALYTICAL SERVICES

MAS CHAIN-OF-CUSTODY

Client: PORT AUTHORITY OF NY & NJ

Contact: KEVIN BLEACH

Phone #: (212) 435-6145

Mas Job #: M9084

Date Recd: 8/19/92

Client PO: JFK AIRPORT FACILITY/BLDG 53

BULK SAMPLE ANALYSIS

SAMPLE NUMBER(S)

1) LL-1933-JFK-A
2)
3)
4)
5)
6)
7)
8)
9)
10)
11)
12)
13)
14)
15)
16)
17)
18)
19)
20)

Samples Relinquished By: KEVIN BLEACH

Samples Recd. By: Jane K. Lee Time: 2:00 PM

Condition of Samples: O.K.

Client Docs: 2 COVER LETTER (ORIG. IN M9065), 1 COC, UPS

Init File Rev:

Sample Prep by: Date:

Sample Analysis: Date:

Report(s) Sent: Date:

Sample(s) Ret. By: Date:

P 702871

igh Office:
Blue Ridge Road • Suite 105
igh, North Carolina 27607
) 881-7708 • FAX (919) 881-8227

Atlanta Office:
3597 Parkway Lane • Suite 250
Norcross, Georgia 30092
(404) 448-3200 • FAX (404) 368-8256

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

iect # - Spl #: M8219-1 Date: 23APR92

.oject Name: PORT AUTHORITY of NY & NJ Analyst: SB

ample Identification: JFK Airport Facility / Building 53
LL-1347-JFK-C

ross Visual Description: Lt brown with golden flakes, wavy white fibers/ nodules, fine grain matrix. No Paint Observed.

Optical Data for Asbestos Identification

Morphology	Wavy			
Pleochroism	None Obs.			
Refractive Index	1.545/1.555			
Sign of Elongation	+			
Extinction	//			
Birefringence	Low			
Melt	—			
Fiber Name	Chrysotile			

ASBESTOS MINERALS: Est. Vol. %

Chrysotile	11
Amosite	
Tidolite	
nolite/Actinolite	
nthophyllite	

OTHER FIBROUS COMPONENTS:

Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Other	

NON-FIBROUS COMPONENTS:

Perlite	
Vermiculite	42
Other	
Binders	47

Gypsum, Fine grain aggregate.

EFFERVESCENCE: low (isolated)

MENTS: No Starch Observed

P 702872

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

oject # - Spl #: MB219-2 Date: 23APR92

roject Name: PORT AUTHORITY of NY & NJ Analyst: SFB

Sample Identification: JFK Airport Facility / Building 53

LL-1357-JFK-B

Gross Visual Description: Lt. Brown with golden flakes, wavery white fibers / bundles, fine grain aggregate. No Paint Observed.

Optical Data for Asbestos Identification

Morphology	Wavery		
Pleochroism	None to.		
Refractive Index	1.545 | 1.555		
Sign of Elongation	+		
Extinction	//		
Birefringence	low		
Melt			
Fiber Name	Chrysotile		

ASBESTOS MINERALS: Est. Vol. %

Chrysotile	10
Amosite	
Crocidolite	
Tremolite/Actinolite	
Anthophyllite	

OTHER FIBROUS COMPONENTS:

Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Other	

NON-FIBROUS COMPONENTS:

Perlite	
Vermiculite	
Other	34
Binders	56

Gypsum, fine grain aggregate

EFFERVESCENCE: weak (isolated)

COMMENTS: No Starch Observed.

P 702873

:plicate_____ Replicate ✓

MATERIALS ANALYTICAL SERVICES, INC.

BULK (PLM) QUALITY CONTROL ANALYSIS SHEET

:ct # - Spl #: M8219-2 Date: 30 July 92

: Analyst: SMF

: Analyst's Signature: [signature]

:oss Visual Description: lt. brown with golden flakes, veiny white fibers/bundles, fine grain aggregate. No Paint Ob.

Optical Data for Asbestos Identification

Morphology	Wavy		
Pleochroism	None Ob		
Refractive Index	1.545-1.554		
Sign of Elongation	+		
Extinction	P		
Birefringence	Low		
Melt			
Fiber Name	Chrysotile		

;BESTOS MINERALS: **Est. Vol. %**

ırysotile	9
:te	
.dolite	
:emolite/Actinolite	
ıthophyllite	

:HER FIBROUS COMPONENTS:

ineral/Rock wool	
ibrous glass	
ellulose	
/nthetic	
:her	

)N-FIBROUS COMPONENTS:

erlite	
ermiculite	41
:her	
inders	50

Gypsum, fine grain aggregate 50 J

FFERVESCENCE: None Ob

:NTS: No Starch Ob

P 702874

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

oject # - Spl #: M8219-3 Date: 23APR92

Project Name: PORT AUTHORITY of NY & NJ Analyst: SFB

Sample Identification: JFK Airport Facility / Building 53
LL-1368-JFK-B

Gross Visual Description: lt. Brown with golden flakes, wavey white fibers / bundles. Fine grain matrix. No Paint Observed. Surface Staining (Orangeish) Ob.

Optical Data for Asbestos Identification

Morphology	Wavey		
Pleochroism	None ob		
Refractive Index	1.545±1.555±		
Sign of Elongation	+		
Extinction	//		
Birefringence	low		
Melt	—		
Fiber Name	Chrysotile		

ASBESTOS MINERALS: Est. Vol. %

Chrysotile	9
Amosite	
Crocidolite	
Tremolite/Actinolite	
Anthophyllite	

OTHER FIBROUS COMPONENTS:

Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Other	

NON-FIBROUS COMPONENTS:

Perlite	
Vermiculite	34
Other	
Binders	47

Gypsum, Fine grain aggregate with localized Carbonates

EFFERVESCENCE: low to moderate

COMMENTS: No Starch observed.

P 702875

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

›ject # - Spl #: MR219-4 Date: 23APR92

Project Name: PORT AUTHORITY of NY & NJ Analyst: SFB

Sample Identification: JFK Airport Facility / Building 53

LL-1376-JFK-B

Gross Visual Description: Lt. brown with wavy white fibers / bundles, golden flakes, fine grain matrix. No Paint Observed.

Optical Data for Asbestos Identification

Morphology	Wavy		
Pleochroism	None Obs.		
Refractive Index	1.545/1.555		
Sign of Elongation	+		
Extinction	//		
Birefringence	low		
Melt			
Fiber Name	Chrysotile		

ASBESTOS MINERALS: **Est. Vol. %**

Chrysotile	11
›osite	
›cidolite	
__emolite/Actinolite	
Anthophyllite	

OTHER FIBROUS COMPONENTS:

Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Other	

NON-FIBROUS COMPONENTS:

Perlite	
Vermiculite	38
Other	
Binders	51

· Gypsum, fine grain aggregate.

EFFERVESCENCE: Weak + Isolated.

MMENTS: No Starch Observed.

P 702876

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

oject # - Spl #: M8219-6 Date: 23 APR 92

..oject Name: PORT AUTHORITY of NY & NJ Analyst: SF

Sample Identification: JFK Airport Facility / Building 53

LL-1380-JFK-6

Gross Visual Description: lt. brown with golden flakes, wavery white fibers/bundles, ~~gold~~ fine grain matrix. No Paint Observed.

Optical Data for Asbestos Identification

Morphology	Wavery			
Pleochroism	None ob.			
Refractive Index	1.54 < RI < 1.555			
Sign of Elongation	+			
Extinction	//			
Birefringence	low			
Melt	—			
Fiber Name	Chrysotile			

ASBESTOS MINERALS:	Est. Vol. %
Chrysotile	8
Amosite	
Crocidolite	
Tremolite/Actinolite	
Anthophyllite	

OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Other	

NON-FIBROUS COMPONENTS:	
Perlite	
Vermiculite	35
Other	
Binders	57

Gypsum, fine grain aggregate.

EFFERVESCENCE: low; isolated + spots.

COMMENTS: No Starch Observed

P 702877

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

oject # - Spl #: MR219-7 Date: 23APR92

rroject Name: PORT AUTHORITY of NY & NJ Analyst: SF

Sample Identification: JFK Airport Facility / Building 53
LL-1615-JFK-A

Gross Visual Description: Lt. brown with golden flakes, wavy white fibers / bundles, fine grain matrix. No Paint Observed.

Optical Data for Asbestos Identification

Morphology	Wavy			
Pleochroism	None ob.			
Refractive Index	1.545±1.555			
Sign of Elongation	+			
Extinction	//			
Birefringence	low			
Melt	—			
Fiber Name	Chrysotile			

ASBESTOS MINERALS:	Est. Vol. %
Chrysotile	10
Amosite	
Crocidolite	
Tremolite/Actinolite	
Anthophyllite	

OTHER FIBROUS COMPONENTS:

Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Other	

NON-FIBROUS COMPONENTS:

Perlite	
Vermiculite	35
Other	
Binders	55

Gypsum, occasional Carbonates, and fine grain aggregate.

EFFERVESCENCE: low to Moderate. localized.

COMMENTS: No Starch Observed.

P 702878

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

oject # - Spl #: M8219-8

Date: 24APR92

roject Name: PORT AUTHORITY of NY & NJ

Analyst: SFB

Sample Identification: JFK Airport Facility / Building 53

LL-1616-JFK-B

Gross Visual Description: lt. brown with golden flakes, wavy white fibers / bundles, fine grain matrix. No Paint Observed.

Optical Data for Asbestos Identification

Morphology	Wavy			
Pleochroism	None Ob.			
Refractive Index	1.54 1.55			
Sign of Elongation	+			
Extinction	∥			
Birefringence	low			
Melt	—			
Fiber Name	Chrysotile			

ASBESTOS MINERALS:

	Est. Vol. %
Chrysotile	8
Amosite	
Crocidolite	
Tremolite/Actinolite	
Anthophyllite	

OTHER FIBROUS COMPONENTS:

Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Other	

NON-FIBROUS COMPONENTS:

Perlite	
Vermiculite	
Other	38
Binders	54

Gypsum, fine grain aggregate.

EFFERVESCENCE: low (isolated)

COMMENTS: No Starch Observed. Rusty flakes ob.

P 702879

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

Project # - Spl #: M8219-9

Date: 24APR92

Project Name: PORT AUTHORITY of NY & NJ

Analyst: SFB

Sample Identification: JFK Airport Facility / Building 53

LL-~~1607~~ 1617 SFB JFK-C

Gross Visual Description: lt brown with golden flakes, wavery white fibers/bundles, fine grain matrix. Painted Black.

Optical Data for Asbestos Identification

Morphology	Wavery		
Pleochroism	None Ob.		
Refractive Index	1.545-1.555		
Sign of Elongation	+		
Extinction	∥		
Birefringence	low		
Melt	—		
Fiber Name	Chrysotile		

ASBESTOS MINERALS: Est. Vol. %

Chrysotile	8
Amosite	
Crocidolite	
Tremolite/Actinolite	
Anthophyllite	

OTHER FIBROUS COMPONENTS:

Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Other	

NON-FIBROUS COMPONENTS:

Perlite	
Vermiculite	37
Other	
Binders	55

Gypsum, occasional Carbonate, fine grain aggregate.

EFFERVESCENCE: low to moderate.

COMMENTS: No Starch Observed.

P 702880

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

ject # - Spl #: M8219-11

Date: 24APR92

Project Name: PORT AUTHORITY of NY & NJ

Analyst: SF

Sample Identification: JFK Airport Facility / Building 53

LL-1621-JFK-c

Gross Visual Description: Lt. brown with golden flakes, wavy white fibers/ bundles, fine grain matrix. No Paint Observed.

Optical Data for Asbestos Identification

Morphology	Wavery		
Pleochroism	None Ob.		
Refractive Index	1.54 1.55		
Sign of Elongation	+		
Extinction	||		
Birefringence	low		
Melt			
Fiber Name	Chrysotile		

ASBESTOS MINERALS:

	Est. Vol. %
Chrysotile	9
[illegible]osite	
cidolite	
molite/Actinolite	
Anthophyllite	

OTHER FIBROUS COMPONENTS:

Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Other	

NON-FIBROUS COMPONENTS:

Perlite	
Vermiculite	
Other	42
Binders	49

Gypsum, fine grain aggregate.

EFFERVESCENCE: low (isolated)

COMMENTS: No Starch Observed

P 702881

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

Project # - Spl #: M8219-12 Date: 24APR92

Project Name: PORT AUTHORITY of NY & NJ Analyst: SFB

Sample Identification: JFK Airport Facility / Building 53
LL-1622-JFK-C

Gross Visual Description: lt. Brown with golden flakes, wavy, white fiber bundles, fine grain matrix. No Paint Observed.

Optical Data for Asbestos Identification

Morphology	Wavy		
Pleochroism	None Obs.		
Refractive Index	1.545-1.555		
Sign of Elongation	+		
Extinction	//		
Birefringence	low		
Melt			
Fiber Name	Chrysotile		

ASBESTOS MINERALS: **Est. Vol. %**

Chrysotile	11
Amosite	
Crocidolite	
Tremolite/Actinolite	
Anthophyllite	

OTHER FIBROUS COMPONENTS:

Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Other	

NON-FIBROUS COMPONENTS:

Perlite	
Vermiculite	39
Other	
Binders	50

Gypsum, fine grain aggregate.

EFFERVESCENCE: weak (isolated)

COMMENTS: No Steels Observed.

P 702882

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

ject # - Spl #: M8219-13 Date: 24APR92

Project Name: PORT AUTHORITY of NY & NJ Analyst: SF

Sample Identification: JFK Airport Facility / Building 53

LL-1623-JFK-B

Gross Visual Description: Lt. Brown with golden flakes, wavy white fibers / bundles, fine grain matrix. No Paint Observed.

Optical Data for Asbestos Identification

Morphology	Wavy		
Pleochroism	Non Oh,O		
Refractive Index	1.545±1.555±		
Sign of Elongation	+		
Extinction	∧		
Birefringence	low		
Melt	—		
Fiber Name	Chrysotile		

ASBESTOS MINERALS:	Est. Vol. %
Chrysotile	9
...site	
...cidolite	
...emolite/Actinolite	
Anthophyllite	

OTHER FIBROUS COMPONENTS:

Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Other	

NON-FIBROUS COMPONENTS:

Perlite	
Vermiculite	31
Other	
Binders	60

Gypsum, fine grain aggregate

EFFERVESCENCE: low (isolated)

IMENTS: No Starch Observed.

P 702883

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

ɔject # - Spl #: M8219-14 Date: 24APR92

Project Name: PORT AUTHORITY of NY & NJ Analyst: SF

Sample Identification: JFK Airport Facility / Building 53

LL-1625-JFK-C

Gross Visual Description: lt. brown with golden flakes, wavey white fibers / bundles, fine grain matrix. No Paint Observed.

Optical Data for Asbestos Identification

Morphology	Wavey		
Pleochroism	None Ob.		
Refractive Index	1.54511.55516		
Sign of Elongation	+		
Extinction	∥		
Birefringence	low		
Melt			
Fiber Name	Chrysotile		

ASBESTOS MINERALS:	Est. Vol. %
Chrysotile	8
·osite	
ɔcidolite	
emolite/Actinolite	
Anthophyllite	

OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Other	

NON-FIBROUS COMPONENTS:	
Perlite	
Vermiculite	40
Other	
Binders	52

Gypsum, fine grain aggregate.

EFFERVESCENCE: low + isolated.

MMENTS: No Starch Observed.

P 702884

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

)ject # - Spl #: M8219-15 Date: 24APR92

Project Name: PORT AUTHORITY of NY & NJ Analyst: SB

Sample Identification: JFK Airport Facility / Building 53

LL-1797-JFK-X

Gross Visual Description: lt. brown with golden flakes, wavy white fibers / boulder, fine grain matrix. Painted Black.

Optical Data for Asbestos Identification

Morphology	Wavy		
Pleochroism	None Ob.		
Refractive Index	1.545 || 555 ⊥		
Sign of Elongation	+		
Extinction	||		
Birefringence	low		
Melt	—		
Fiber Name	Chrysotile		

ASBESTOS MINERALS: Est. Vol. %

Chrysotile	9
)site	
)cidolite	
--emolite/Actinolite	
Anthophyllite	

OTHER FIBROUS COMPONENTS:

Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Other	

NON-FIBROUS COMPONENTS:

Perlite	
Vermiculite	42
Other	
Binders	49

: Gypsum, fine grain aggregate, occasional carbonates

EFFERVESCENCE: weak to moderate

MMENTS: No Starch Observed.

P 702885

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

roject # - Spl #: M8219-16 Date: 24 APR 92

Project Name: PORT AUTHORITY of NY & NJ Analyst: BF

Sample Identification: JFK Airport Facility / Building 53
LL-1868-JFK-A

Gross Visual Description: lt. brown with golden flakes, fine grain matrix, wavey white fibers/bundles. No Paint Observed.

Optical Data for Asbestos Identification

Morphology	Woven			
Pleochroism	None Obs.			
Refractive Index	1.545-1.555			
Sign of Elongation	+			
Extinction	P			
Birefringence	low			
Melt				
Fiber Name	Chrysotile			

ASBESTOS MINERALS:

	Est. Vol. %
Chrysotile	11
Crocidolite	
Tremolite/Actinolite	
Anthophyllite	

OTHER FIBROUS COMPONENTS:

Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Other	

NON-FIBROUS COMPONENTS:

Perlite	
Vermiculite	
Other	38
Binders	51

Gypsum, fine grain aggregate.

EFFERVESCENCE: None

COMMENTS:

P 702886

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

ject # - Spl #: M9084-1 Date: 05 Sept 92

ject Name: Port Authority of NY & NJ Analyst: SR

ample Identification: JFK Airport facility Building 53
LL-1933-JFK-A

ross Visual Description: Lt. brown with golden flakes, wavy white fibers/bundles, fine grain matrix. No Paint Ob.

Optical Data for Asbestos Identification

Morphology	Wavy		
Pleochroism	None Ob		
Refractive Index	1.545±1.555±		
Sign of Elongation	+		
Extinction	//		
Birefringence	low		
Melt	—		
Fiber Name	Chrysotile		

SBESTOS MINERALS: Est. Vol. %

hrysotile	14
mosite	
idolite	
lite/Actinolite	
ophyllite	

THER FIBROUS COMPONENTS:

ineral/Rock wool	
ibrous glass	
ellulose	
ynthetic	
ther	

ON-FIBROUS COMPONENTS:

erlite	
ermiculite	34
ther	
inders	52

Gypsum, fine grain aggregate

FFERVESCENCE: None Ob

MENTS: No Stitch Ob

P 702887

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

oject # - Spl #: M8219-17 Date: 24APR92

..oject Name: PORT AUTHORITY of NY & NJ Analyst: SFB

Sample Identification: JFK Airport Facility / Building 53

LL-1869-JFK-A

Gross Visual Description: tan, brown, with golden flakes, wavy white fibers/ bundles, fine grain matrix. No Paint Observed.

Optical Data for Asbestos Identification

Morphology	Wavy		
Pleochroism	None Obs.		
Refractive Index	1.545/1.555		
Sign of Elongation	+		
Extinction	//		
Birefringence	low		
Melt			
Fiber Name	Chrysotile		

ASBESTOS MINERALS: Est. Vol. %

Chrysotile	11
Amosite	
Crocidolite	
Tremolite/Actinolite	
Anthophyllite	

OTHER FIBROUS COMPONENTS:

Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Other	

NON-FIBROUS COMPONENTS:

Perlite	
Vermiculite	
Other	37
Binders	52

Gypsum, fine grain aggregate

EFFERVESCENCE: low + isolated

COMMENTS: No Starch Observed.

P 702888

ENZYME STARCH VERIFICATION

MATERIALS ANALYTICAL SERVICES

PROJECT NUMBER M8219-4

DATE Aug 25, 1992

PREP TECH J. Taylor

a. container + material(g) 1.29179

b. container (g) 1.07006

c. material (g) 0.22173

d. buffer (ml) 0.554

e. alpha Amylase enzyme (ml) 0.554

f. A_{540} Project 0.042

g. A_{540} Water Control 0.029

ample is positive if absorbance at a wavelength of 540 nm is greater than three times the reading of Water Control (Water with Color Reagent).

Sample is : POSITIVE (NEGATIVE)

(circle one)

P 702889

3597 Parkway Lane • Suite 250
Norcross, Georgia 30092
(404) 448-3200 FAX (404) 368-8256

MATERIALS ANALYTICAL SERVICES

ADDITIONAL BULK ANALYSIS

Sample #: M8219-4 Analyst:

Date: 8/13/92

ACID DISSOLUTION

1) Petri dish plus sample	9.6656g
2) Petri dish minus sample	9.2720g
Original sample weight	0.3936g
4) Filter weight	0.0626g
5) Clean petri dish weight	7.6515g
6) Final sample weight plus filter and petri dish	7.8940g
7) Final sample wt ((6)-[(4)+(5)])	0.1799g
8) Percent residue wt ((7)/(3) x 100)	45.7%
9) Amount in solution (100 - (8))	54.3%

P 702890

Raleigh Office:
4 Blue Ridge Road • Suite 105
Raleigh, North Carolina 27607
(919) 881-7708 • FAX (919) 881-8227

Atlanta Office:
3597 Parkway Lane • Suite 250
Norcross, Georgia 30092
(404) 448-3200 • FAX (404) 368-825

MINERAL ANALYSIS SHEET

MATERIALS ANALYTICAL SERVICES

TEM ANALYSIS:	Bulk
PROJECT:	Port Authority / JFK Building 5-3
SAMPLE NUMBER:	LC-1376-JFK-B
SAMPLE ID:	M-8219-4
DATE OF ANALYSIS:	8/24/92
ANALYST:	W. Long

ASBESTOS MINERALS:

1) Chrysotile (diff/EDS)

OTHER COMPONENTS:

1) Vermiculite (diff/EDS)

2) Gypsum (EDS)

OTHER COMMENTS:

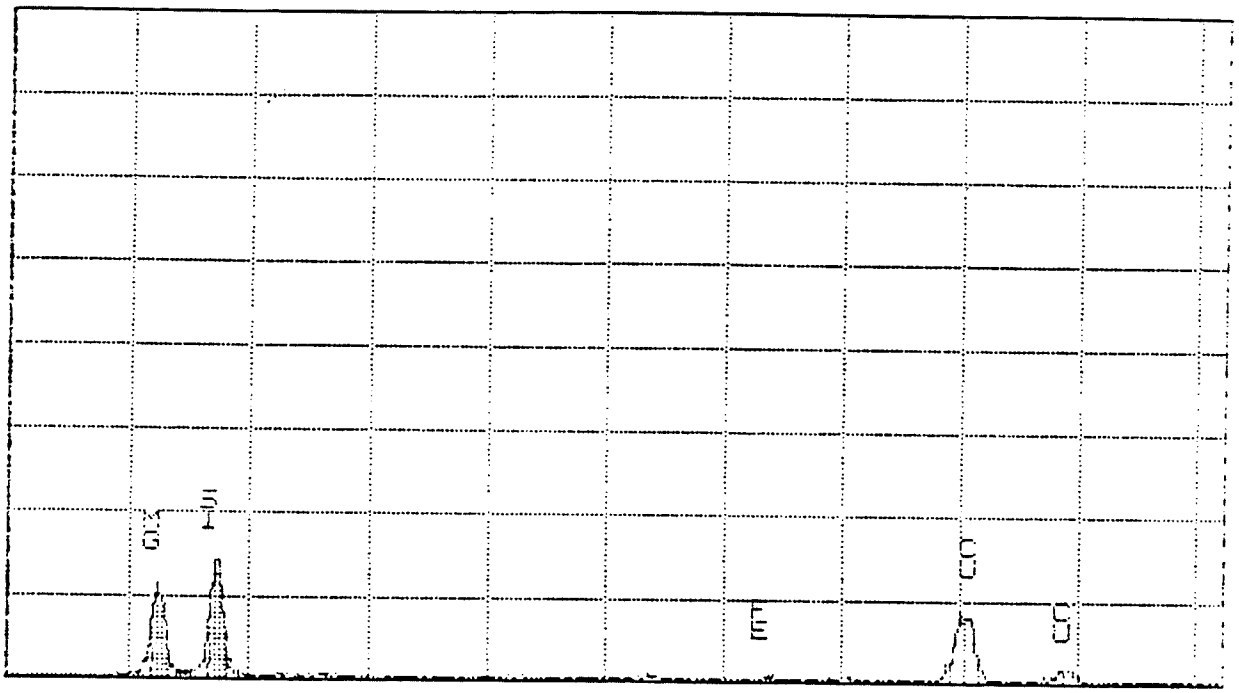
Raleigh Office:
2418 Blue Ridge Road • Suite 105
Raleigh, North Carolina 27607
(919) 881-7708 • FAX (919) 881-8227

Atlanta Office:
3597 Parkway Lane • Suite 250
Norcross, Georgia 30092
(404) 448-3200 • FAX (404) 368-82

P 702891

/ATERIALS ANALYTICAL SERVICES MON 24-AUG-92 11:33

Cursor: 0.010keV = 0 ROI (SIKa) 1.560: 1.810=1008



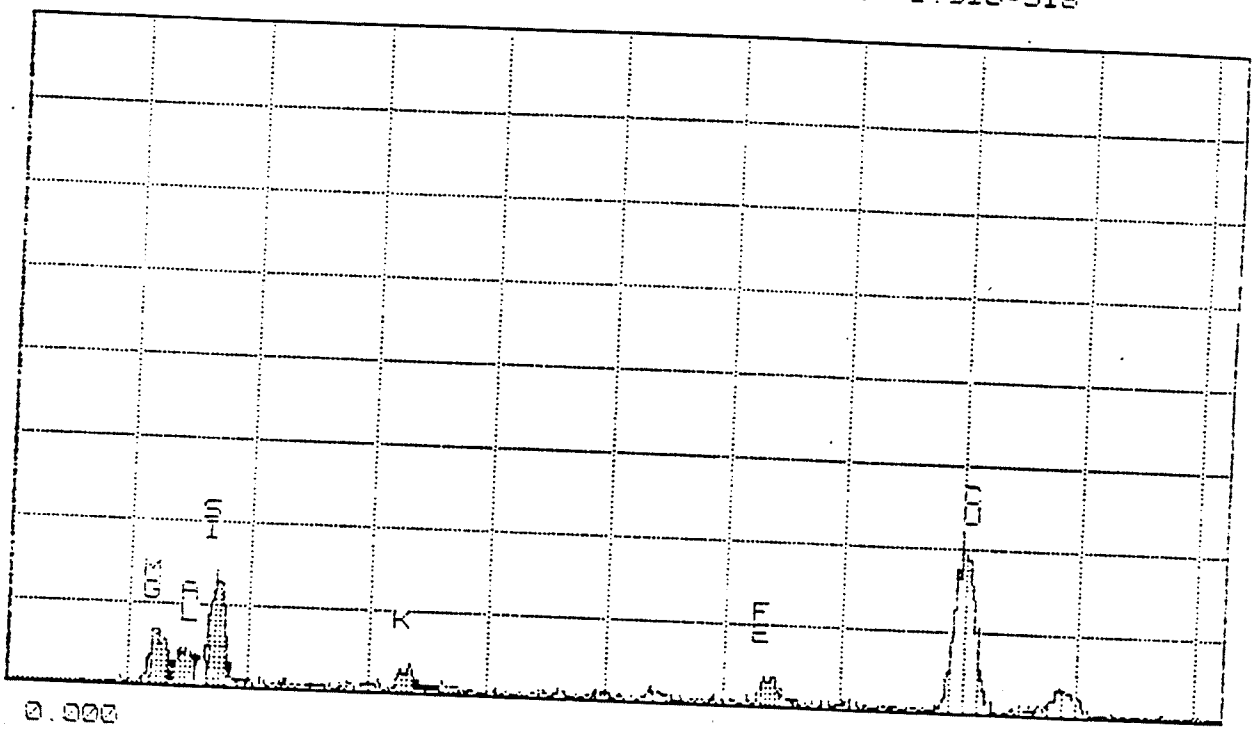
0.000 VFS = 512 10.240

M-8219-4: CHRYSOTILE

19

P 702892

MATERIALS ANALYTICAL SERVICES
Cursor: 0.000keV = 0 -
MON 24-AUG-92 11:38
ROI (SIKα) 1.650: 1.810=518



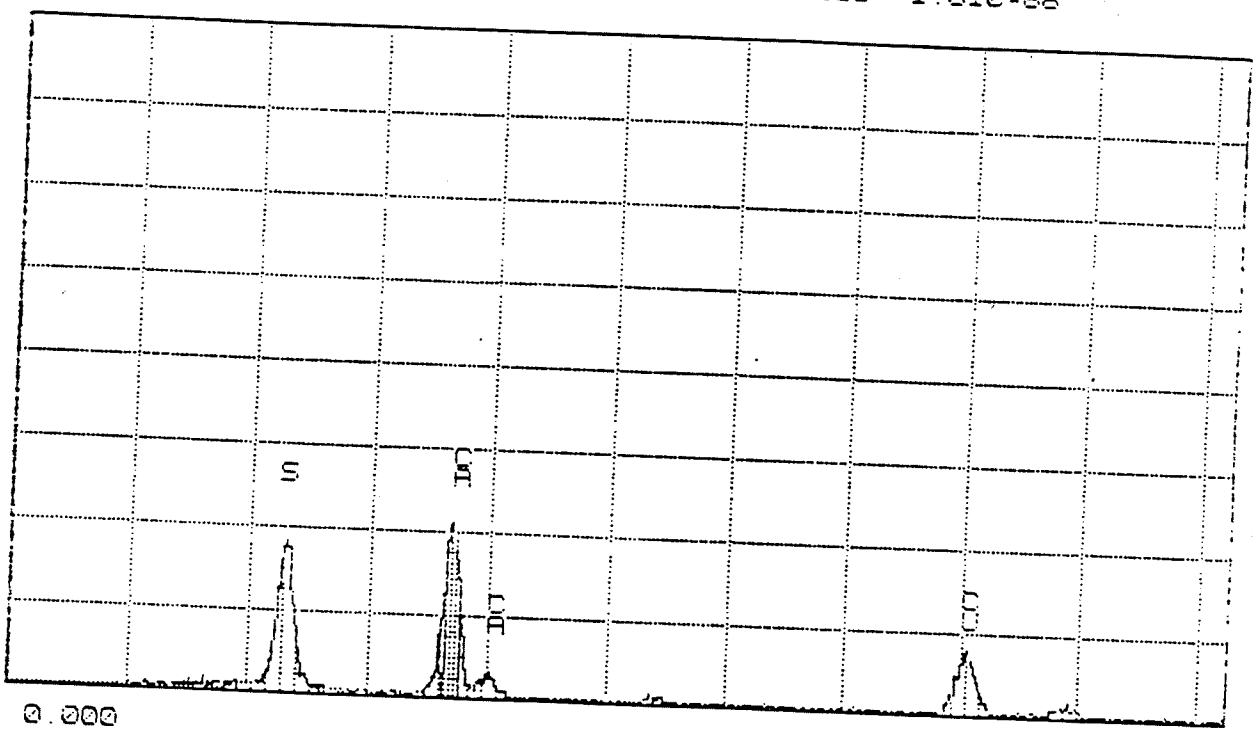
M-8219-4: VERMICULITE

59

P 702893

MATERIALS ANALYTICAL SERVICES

Cursor: 0.000keV = 0 - ROI (SiKα) 1.660: 1.810=88 MON 24-AUG-92 11:38



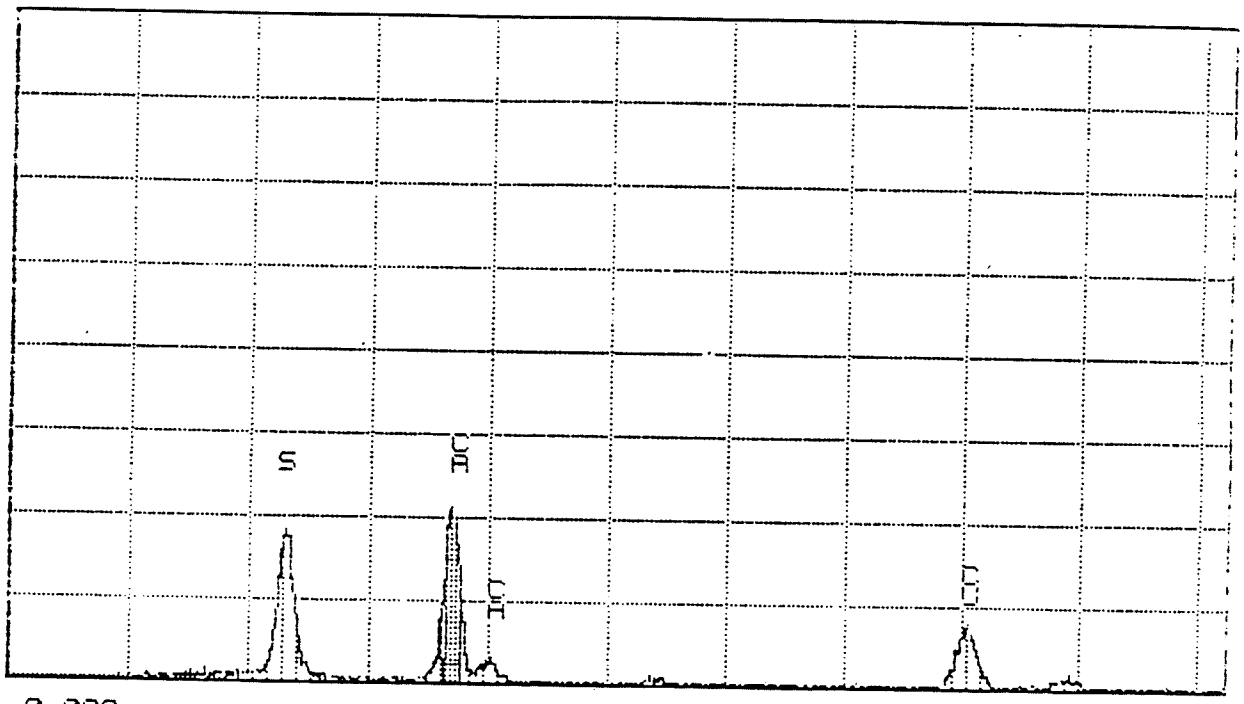
M-9219-4: GYPSUM

13

P 702894

MATERIALS ANALYTICAL SERVICES MON 24-AUG-92 11:40

Cursor: 0.000keV = 0 ROI (SIKα) 1.560: 1.810=88



M-8219-4: GYPSUM

19

P 702895

Box # ALTF- 155

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler Gilbert Gedeon Sample Number LL-1869-STR-A Date Sample Taken 3/16/92

Building Number/Name Bldg 5 Facility STR

Sample delivered and secured within sample storage room by: G.G. A Gedeon date/time 3/16/92 2200

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: Frank Pergola date/time 3/20/92 0900

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Mailed to Analytical Laboratory by: Kar Blan 4/1/92 date/time 1630

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY!

Sample Received by Analytical Laboratory [illegible]/MAS 4-2-92 date/time 2PM
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

P 702896

WTC STORAGE ROOM

Box # ALTF- 155

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler Gilbert Gedeon Sample Number AL-1868-SPL-A Date Sample Taken 3/16/92

Building Number/Name Bldg 5 3 Facility SPL

Sample delivered and secured within sample storage room by: [signature] date/time 3/16/92 2200

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: Frank Pergola date/time 3/20/92 0900

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Mailed to Analytical Laboratory by: [signature] date/time 4/1/92 1630

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY:

Sample Received by Analytical Laboratory [signature] IMAS date/time 4-2-92 2PM
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

P 702897

WTC STORAGE ROOM

Box # ALTF-_____

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler Gilbert Cedeno Sample Number 2L-1797-JFK-X Date Sample Taken 4/28/92

Building Number/Name Bldg 53 Facility JFK

Sample delivered and secured within sample storage room by: [signature] date/time 4/28/92/2300

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: Frank Pergola date/time 4/29/92 1000

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Mailed to Analytical Laboratory by: [signature] 4/1/92 date/time 1630

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY:

Sample Received by Analytical Laboratory [signature] 4-2-92 date/time 2PM
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

P 702898

Box # ALTF- 135

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler F. DAMBREVILLE Sample Number LL-1625-JFK-C Date Sample Taken 8/27/91

Building Number/Name #53 Facility JFK

Sample delivered and secured within sample storage room by: F. Dambreville date/time 8/28/91 0400

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: Kevin Rhae date/time 8/30/91, 4pm

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Mailed to Analytical Laboratory by: Kevin Rhae 4/1/92 date/time 1430

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY!

Sample Received by Analytical Laboratory Jane K. Rylmas 4-2-92 date/time 2PM
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

P 702899

WTC STORAGE ROOM

Box # ALTF- 134

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler F. DAMBREVILLE Sample Number 11-1623-JFK-B Date Sample Taken 8/27/91

Building Number/Name #53 Facility JFK

Sample delivered and secured within sample storage room by: F Dambreville date/time 8/28/91 0400

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: Kevin Blair date/time 8/30/91, 4pm

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Mailed to Analytical Laboratory by: Kevin Blair 4/1/92 date/time 1630

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY!

Sample Received by Analytical Laboratory Jane K. [illegible] /MAS date/time 4-2-92 2PM
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

P 702900

WTC STORAGE ROOM

Box # ALTF- 134

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler F. DAMBREVILLE Sample Number LL-1622-JFK-C Date Sample Taken 8/27/91

Building Number/Name #53 Facility JFK

Sample delivered and secured within sample storage room by: F. Dambreville date/time 8/28/91 0400

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: Keri Blair date/time 8/30/91, 4pm

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Mailed to Analytical Laboratory by: Keri Blair 4/1/92 date/time 1630

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY!

Sample Received by Analytical Laboratory Jane K. Ru/MAS 4-2-92 date/time 2pm
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

P 702901

WTC STORAGE ROOM

Box # ALTF- # 134

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler F. DAMBROVILLE Sample Number 11-1671-JFK-C Date Sample Taken 8/26/91

Building Number/Name #53 Facility JFK

Sample delivered and secured within sample storage room by: F. Dambroville date/time 8/27/91 0400

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: Ken Black date/time 8/27/91, 4pm

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Mailed to Analytical Laboratory by: Ken Black date/time 4/1/92 1630

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY!

Sample Received by Analytical Laboratory Jane K. Ly/MAS date/time 4-2-92 2PM
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

P 702902

WTC STORAGE ROOM

Box # ALTF- 134

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler F. DAMBREVILLE Sample Number 11-1617-JFK-C Date Sample Taken 8/26/91

Building Number/Name #53 Facility JFK

Sample delivered and secured within sample storage room by: F. Dambreville date/time 8/27/91 0400

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: Kevin Bleach date/time 8/30/91, 4pm

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Mailed to Analytical Laboratory by: Kevin Bleach 4/1/92 date/time 1630

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY!

Sample Received by Analytical Laboratory Jane K. Pu/MAS date/time 4-2-92 21m
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

P 702903

WTC STORAGE ROOM

Box # ALTF- 134

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler F. DAMBREVILLE Sample Number LL-1616-JFK-B Date Sample Taken 8/26/91

Building Number/Name #53 Facility JFK

Sample delivered and secured within sample storage room by: F. Dambreville date/time 8/27/91 0400

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: Kevin B. [illegible] date/time 8/30/91, 4PM

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Mailed to Analytical Laboratory by: [illegible] date/time 4/1/92 1CR

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY!

Sample Received by Analytical Laboratory [illegible] /MAS date/time 4-2-92 2PM
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

P 702904

WTC STORAGE ROOM

Box # ALTF- 134

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler T. DAMBRAVILLE Sample Number U-1615-JFK-A Date Sample Taken 8/26/91

Building Number/Name #53 Facility JFK

Sample delivered and secured within sample storage room by: T. Dambraville date/time 8/27/91 0400

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: Kevin Blair date/time 8/30/91, 4pm

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Mailed to Analytical Laboratory by: Kevin Blair 4/1/92 date/time 1630

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY!

Sample Received by Analytical Laboratory: [illegible] MAS 4-2-92 date/time 2PM
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

P 702905

WTC STORAGE ROOM

Box # ALTF-

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler F. DAMBREVILLE Sample Number LL-1380-JFK-C Date Sample Taken 4/15/91

Building Number/Name #53 Facility JFK

Sample delivered and secured within sample storage room by: F. Dambreville date/time 4/15/91 2400

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: C. Kostaty date/time 4-16-91 0300

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Mailed to Analytical Laboratory by: [signature] date/time 4/1/92 1630

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY!

Sample Received by Analytical Laboratory [signature] /MAS date/time 4-2-92 2PM
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

P 702906

WTC STORAGE ROOM

Box # ALTF-

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler A. Wlondk Sample Number LL-1376-JFK-B Date Sample Taken 4.15.91

Building Number/Name BLDG 53 Facility JFK

Sample delivered and secured within sample storage room by: [signature] date/time 4.15.91/2400

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: [signature] date/time 4-16-91 0300

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Mailed to Analytical Laboratory by: [signature] date/time 4/1/92 1630

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY!

Sample Received by Analytical Laboratory [signature] IMAS date/time 4-2-92 2PM
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

P 702907

WTC STORAGE ROOM

Box # ALTF-

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

ampler F. DAMBREVILLE Sample Number U-1368-JFK-B Date Sample Taken 4/10/91

uilding Number/Name #53 Facility JFK

ample delivered and ecured within sample torage room by: F. Dambreville date/time 4/10/91 1530

eceipt of sample cknowledged by: _____ date/time _____

ample found to be ntact and not ampered with: _____ Yes No _____

eceipt of sample cknowledged and filed y Sampling Team Manager: C. Hondaty date/time 4-11-91 0930

ample found to be intact nd not tampered with: ✓ Yes No _____

Sample Mailed to Analytical Laboratory by: [signature] date/time 4/1/92 1630

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY!

Sample Received by Analytical Laboratory [signature] IMAS date/time 4-2-92 2PM
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

ample Relinquished by: _____ date/time _____
Signature/Organization

ample Received by: _____ date/time _____ Reason _____
Signature/Organization

ample found to be intact nd not tampered with: _____ Yes No _____

ample Relinquished by: _____ date/time _____
Signature/Organization

ample Received by: _____ date/time _____ Reason _____
Signature/Organization

P 702908

WTC STORAGE ROOM

Box # ALTF-

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler A. Wilmoth Sample Number LL-1857-JFK-B Date Sample Taken 4.8.91

Building Number/Name 53 Facility JFK

Sample delivered and secured within sample storage room by: [signature] date/time 4.8.91 1400

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: C. Mondato date/time 4-9-91 1130

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ date/time _____
Signature/Organization

Sample Received by: _____ date/time _____ Reason _____
Signature/Organization

Sample Mailed to Analytical Laboratory by: [signature] date/time 4/1/92 1630

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY!

Sample Received by Analytical Laboratory [signature] date/time 4-2-92 2PM
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

P 702909

WTC STORAGE ROOM

Box # ALTF-

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler F. DAMBRAVILLE Sample Number 11-1347-JFK-C Date Sample Taken 4/3/91

Building Number/Name #53 Facility JFK

Sample delivered and secured within sample storage room by: F. Dambraville date/time 4/3/91 2400

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: C. Hendaty date/time 4-4-91 1300

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Relinquished by: _____ Signature/Organization date/time _____

Sample Received by: _____ Signature/Organization date/time _____ Reason _____

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ Signature/Organization date/time _____

Sample Received by: _____ Signature/Organization date/time _____ Reason _____

Sample Mailed to Analytical Laboratory by: [illegible] date/time 4/1/92 1630

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY:

Sample Received by Analytical Laboratory Jane R. Dumas date/time 4-2-92 2PM
Signature/Organization

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ date/time _____
Signature/Organization

P 702910

The Port Authority of New York and New Jersey
Litigation Sampling
Chain of Custody

Sampler Gilbert Gedeon Sample Number Lb-1933-JFK-A Date Sample Taken 8/5/92

Building Number/Name Bldg 63 Facility JFK

Sample delivered and secured within sample storage room by: [signature] date/time 8/5/92/1600

Receipt of sample acknowledged by: _____ date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Receipt of sample acknowledged and filed by Sampling Team Manager: Frank Pergola date/time 8-7-92/1600

Sample found to be intact and not tampered with: ✓ Yes No _____

Sample Relinquished by: _____ Signature/Organization date/time _____

Sample Received by: _____ Signature/Organization date/time _____ Reason _____

Sample found to be intact and not tampered with: _____ Yes No _____

Sample Relinquished by: _____ Signature/Organization date/time _____

Sample Received by: _____ Signature/Organization date/time _____ Reason _____

Sample Mailed to Analytical Laboratory by: Kim Bash 8/18/92 date/time 1430

TO BE COMPLETED BY ANALYTICAL LABORATORY ONLY!

Sample Received by Analytical Laboratory _____ Signature/Organization date/time _____

Sample found to be intact and not tampered with: _____ Yes No _____

Sample re-sealed by: _____ date/time _____

Sample mailed from Analytical Laboratory to Port Authority _____ Signature/Organization date/time _____

P 702911

WTC STORAGE ROOM

OEPM 3

THE PORT AUTHORITY OF NY & NJ **MEMORANDUM**

TO: George Jensen, Manager, Airport Facilities Division, JFKIA
FROM: Stephen Kay
DATE: March 29, 1989
SUBJECT: **Y-6074A-WORLDPORT ASBESTOS REMOVAL**

COPY TO: N. Chanfrau, E. Spolidora, P. Taylor

The Environmental Management Division (EMD) has reviewed the subject contract submissions and has the following comment to offer:

1. Representatives of the Asbestos Management Unit of the EMD attended several planning and pre-construction meetings to discuss the subject contract. At these meetings the scope of work was addressed and drawings were reviewed. This project will be reviewed by the EMD and the Resident Engineer's Office as the abatement work progresses, the abatement portion of this contract may commence.

Stephen Kay

Stephen Kay, Supervisor
Contracts and Compliance
Environmental Management Division

RG/sw

P 749550

OEPM 3

THE PORT AUTHORITY OF NY & NJ **MEMORANDUM**

TO: George Jensen, Manager, Airport Facilities Division, JFKIA
FROM: Stephen Kay
DATE: March 28, 1989
SUBJECT: **Y-6076-PAN AM-BLDG 53 REMOVAL OF AIRBRIDGE CANOPIES**

COPY TO: N. Chanfrau, J. Hofmann, E. Spolidora, P. Taylor

The Environmental Management Division (EMD) has reviewed the subject contract submissions and has the following comments to offer:

1. Waste Transporter permit expires April 30. 1989. If project is not completed by that time, Mola Trucking would not be permitted to transport any waste until a new permit is issued.

2. Mola Trucking NJ-Department of Environmental Protection, Solid Waste Transporter permit expires September 30, 1989. Re-certification documentation is required.

3. The abatement contractor and transporter must use the standard "Asbestos Waste Shipping Document" prepared by Environmental Management.

4. Submittal is incomplete. The following details are required: Name and all certification documents of the selected abatement contractor; name and certification documents of all environmental laboratories (OSHA monitoring and third party) associated with this project; and an outline of site specific procedures detailing the complete scope of work. Concerning only the asbestos portion of this plan review, authorization to start work can not be given based upon the outlined deficiencies.

It is required that you resolve the above items whether or not they are part of this Contract. Please advise EMD as to the disposition of all unresolved items.

Stephen Kay

Stephen Kay, Supervisor
Contracts and Compliance
Environmental Management Division

RG/sw

P 749551

OEPM 3

THE PORT AUTHORITY OF NY & NJ **MEMORANDUM**

TO: George Jensen, Manager, Airport Facilities Division, JFKIA
FROM: Stephen Kay
DATE: March 8, 1989
SUBJECT: **Y-6062A-CUSTOMS BLDG 53 ATC ABESTOS REMOVAL SPECIFICATIONS**

COPY TO: N. Chanfrau, J. Hofmann, E. Spolidora, [redacted]

The Environmental Management Division (EMD) has reviewed the subject contract submissions and has the following comment to offer:

1. Representatives of the Asbestos Management Unit of the EMD attended several planning and pre-construction meetings to discuss the subject contract. At these meetings the scope of work was addressed and drawings were reviewed. This project will be reviewed by the EMD and the Resident Engineer's Office as the abatement work progresses, the abatement portion of this contract may commence.

Stephen Kay, Supervisor
Contracts and Compliance
Environmental Management Division

RG/sw

P 749878

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

P 753024

SORTED BY
JOB NUMBER

JOB NUMBER	FACILITY	CONTRACTOR	AM&CD AST	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT	AM&CD
[redacted]							
215.022	JFK - BUILDING 53 HUDSON	ENVIRO SAFE	B. KUCHYNSKAS	COMPLETED.	Y N		
[redacted]							
215.059	JFK - BUILDING 53, PAN AMERICAN CANOPIES	BRIDGE TECH. / APED	B. KUCHYNSKAS	IN PROGRESS.	Y N		JFK-010-90

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

OEPM II

03/09/90

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

P 753025

SORTED BY

JOB NUMBER	FACILITY	CONTRACTOR	AM&CD AST	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT	AM&CD PLACARD #
					⊥	⊥	
215.062	JFK - PAN AMERICAN ODD SIZE BAGGAGE AREA	APED	K. GOSS	COMPLETED.	Y	N	
[redacted]							
215.087	JFK - PAN AM, BUILDING 53 EAST CUSTOMS AREA	DSI IND., ENV. DIV.	K. GOSS	COMPLETED.	Y	N	
[redacted]							

OEPM 11

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

P 753026

SORTED BY
JOB NUMBER FACILITY CONTRACTOR AM&CD AST REMARKS USEPA NOTIFICATION WASTE DOCUMENT AM&CD

[redacted]

OEPM 11

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

03/09/90

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

P 753027

SORTED BY

JOB NUMBER	FACILITY	CONTRACTOR	AM&CD AST	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT	AM&CD

[redacted]

OEPM 11

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

ASBESTOS MANAGEMENT & COMPLIANCE DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

P 753028

SORTED BY
JOB NUMBER FACILITY CONTRACTOR AM&CD AST REMARKS USEPA NOTIFICATION WASTE DOCUMENT AM&CD

[redacted]

OEPM 11

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

OEPM II

JAN-18-'90 14:14 ID:AIRPORT FAC DIV JFK TEL NO:1-718-656-7631 #350 P02

draft Example ATC use Amt CD Letter Head

THE PORT AUTHORITY OF NY & NJ

Certified mail Return
Receipt Requested

~~To:~~ ATC Environmental inc.
Anthony Vetrano, pres
104 E 25th St
NY NY 10010

SUBJECT: RESPONSE TO UNITED STATES ENVIRONMENTAL PROTECTION AGENCY'S REQUEST FOR INFORMATION ON ASBESTOS ABATEMENT ACTIVITIES

Dear Mr. Vetrano:

The office of the Chief Engineer of the Port Authority recently received a request under the "Clean Air Act" from the United States Environmental Protection Agency pertaining to all asbestos abatement projects at John F. Kennedy International Airport that involved the removal of at least 260 linear feet of friable asbestos from pipes or at least 160 square feet of friable asbestos from other components or structures. In addition, demolition projects involving the removal of any amount of friable asbestos are included in the request. The time frame for the request runs from April 5, 1984 to the present. This request is enclosed and labeled attachment I

The scope of the request is enormous. A copy of the EPA's elaborate asbestos information request (labeled Attachment II) is attached. A significant amount of the information requested exists, but not in one location and not in the format contained in the information request. Port Authority staff is currently preparing a response to the EPA that includes all information available in Port Authority files. However, some information, particularly for projects undertaken between 1984 and 1988 prior to the enactment of Local Law 76, may only exist in tenant files.

It is, therefore, requested that ATC Env. provide the Port Authority with copies of any requested documentation that may exist in your files or allow the Port Authority access to any files that contain such documentation as soon as possible. A ~~copy~~ list of specific documents needed is ~~attatched~~ labeled Attatchment II. The importance and the immediacy of this request cannot be overstated. Your full cooperation is essential and greatly appreciated.

Information or files can be given directly to Ms. Kelly Apgar of the Port Authority Asbestos Litigation Task Force or Mr. Al Neidermeyer of the Asbestos mgmt + Compl. Div In either case, arrangements for the handling of the materials will be made by the Port Authority and any material that is borrowed will be promptly returned.

Ms. Apgar can be reached at (212) 432-5571 and AL Neidermeyer at (201) 963-7484 Thank you for your assistance in this most important matter.

If you have any questions please call me at (201) 963-7440

X

Harry Pool, JR, ~~Supervisor~~ Manager
~~Environmental Program~~ cc M & C D
~~Inspections and Safety Division~~

P 753172

OEPM II

Attatchment II

A.T.C.

JFK Y-5956 - 215.016 PAN AM WORLPORT DUTY FREE SHOPS

NAT: 800 SF ~~PGS~~. FIRE PROOFING
DATE: 5/20/88
AC: ENVIROSAFE
G.C._____
ARCH: SAL P.
CONSULTANT: ATC
WASTE HAULER: MITCHKO/ADA
NEED: BULK SAMPLES, PROCEDURES.

104 E 25TH ST
10TH FLOOR
N Y N Y 10010
ANTHONY PETRANO, PRES
(212) 353-8282

~~Y-S491-B COMPLETE~~

JFK Y-5906 BLDG #54 TERMINAL EXPANSION PAN AM
AC: APED
62 PERETE AVE
NORTH ARLINGTON, N.J. 07032
DATE: 1/2/89 - 2/1/89
CONSULTANT: ATC
NEED: AIR SAMPLE, FINAL AIR RESULTS, LOGS.

JFK Y-6062A 215.048 BLDG #53 PAN AM OUTBOUND BAGGAGE
AC: APED
HYG: ATC ENVIRONMENTAL
DATE: FEB 17TH AND MARCH 17TH
NEED: BULK SAMPLES, FINAL AIR TESTS, AREA AIR SAMPLING AND LOGS.

JFK Y-6061A 215.050 BLDG #53 PAN AM WORLDPORT, SERVICE AREAS
CUSTOMS AREA "B" IMMIGRATION AND WEST CUSTOMS

AC: APED
HYG: ATC
DATE: 1/30/89 TO 2/17/89
NEED: FINAL AIR AND AIR TESTS

JFK Y-6074A 215.052 PAN AM WORLD PORT, AREA "D" PORT AREA & BATHROOM
AC: APED ATC
HYG: ~~ACT~~ ENVIRONMENTAL
DATE: 2/16/89 PERMIT APPROVAL
NEED: ~~SMALL AND~~ FINAL AIR AND AIR TESTS, LOGS.

JFK Y-6076 215.059 BLDG #53 PAN AM LOADING BRIDGE CANOPIES
~~AC:~~ BRIDGE TECH INC
171 REDEO DRIVE
BRENTWOOD, N.Y. 11717 (APED) INC.

HYG: A.T.C. ENVIRONMENTAL
DATE: NOV 7, 1989 - DEC 30, 1989
NEED: FINAL AIR AND AIR TESTING RESULTS, LOGS

P 753173

OEPM 11

JFK Y-5981 215.987 BLDG #53 PAN AM OLD TEXAS LOUNGE
AC: APED CO., INC
HYG: ATC ENVT
DATE: 6/8/88 - 6/9/88
NEED: FINAL AIR, AIR RESULTS AND LOGS.

JFK Y-6080A 215.068 PAN AM ODDSIZE CONVEYOR
AC: APED
HYG: ATC
DATE: MAY 11, 1989 - FEB 20, 1990
NEED: LOGS, FINAL AIR RESULTS

JFK Y-6072A 213.087 PAN AM BLDG #53 EAST CUSTOMS AREA
AC: DSI
HYG: ATC
NEEDS: COMPLETE MANIFEST, AIR AND FINAL AIR RESULTS
WASTE HAULER: NATIONAL WASTE DISPOSAL
104 E. 25TH ST
NYC, N.Y. 10016
609-883-1420

CALL: FONTENETTA, RECALL WASTE HAULER CHANGED.

P 753174

Need Complete files by April 20, 1990

JFK - AIR = NO

ASBESTOS ABATEMENT JOB CLOSURE STATUS

CT	COST RECOVERY NUMBER	FACILITY BUILDING	AREA	CONTRACT NUMBER	STATUS OF WORK AS REPORTED	STATUS OF WORK AS REPORTED	EPA WASTE MANI-FEST	BULK SAM.	DWGS OR PLAN	REM. W/O STRIP	PROC OR SPEC	FINAL AIR TESTS	ANY AIR TESTS	LOGS	CHUTES AT 50' ELEV	COMM WITH GOVT	PERMITS OR APPROVALS	PA PERMIT	COMMENT
[redacted]																			
1	215.048	JFK BLDG 53	PAN AM WORLDPORT	Y-6062A	COMPLETE	COMPLETE	YES	YES	NO	YES	NO	YES	NO	NO	NO	NO	YES	YES	
[redacted]																			
1	215.050	JFK BLDG 53	PAN AM WORLD PORT SPECIAL SERVICE AREA	Y-6061A	COMPLETE	COMPLETE	YES	YES	YES	YES	NO	YES	YES	NO	YES	NO	YES	YES		ADEQUATE ?
[redacted]																			
1	215.052	JFK BLDG 53	PAN AM WORLD PORT- AREA D BAGGAGE AND SERVICES ADMIN, BAGGAGE SERVICE OFFICE AND BATHROOMS	Y-6074A	COMPLETE	COMPLETE	SML	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO		
1	215.059	JFK 53	PAN AM LOADING BRIDGE CANOPIES	Y-6076	COMPLETE	~~ONGOING~~ complete 3/21/90	YES	YES	YES	YES	YES	YES	(NO)	(NO)	(NO)	NO	YES	NO		
[redacted]																			
1	215.087	JFK 53 - PAN AM	EAST CUSTOMS AREA	Y-6072A	COMPLETE	~~ONGOING~~ complete 3/23/90	YES	N/A	YES	YES	NO	YES	(NO)	(NO)	PA	NO	YES	NO		
[redacted]																			

P 753303

OEPM II

OEPM 11

ATTACHMENT I

D.S.I. INDUSTRIES (FORMERLY ASBESTOS REMOVAL CORP.)
ADAM NOCITO, PRESIDENT
153 WAVERLY PLACE
NEW YORK, N.Y. 10014
(212) 807-6688

PROJECTS FOR JOHN F. KENNEDY INTERNATIONAL AIRPORT

[redacted]

JFK Y-6072A 213.087 PAN AM BLDG #53 EAST CUSTOMS AREA
ASBESTOS CONTRACTOR: DSI (FORMERLY ARC)
HYGIENIST: ATC
DATE: 11/19 - 2/20/90
WASTE HAULER: NATIONAL WASTE DISPOSAL
104 EAST 25TH ST.
NEW YORK, NY 10016
(609) 883-1420
NEED: COMPLETED WASTE MANIFESTS, AIR AND FINAL AIR RESULTS

[redacted]

JFK 6072A 215.087 PAN AM BLDG #53 EAST CUSTOMS AREA
ASBESTOS CONTRACTOR: D.S.I.
HYGIENIST: ATC ENVIRONMENTAL
WASTE HAULER: NATIONAL WASTE DISPOSAL
DATE: 10/87 - 2/90
NEED: LOGS & WASTE MANIFESTS

OEPM 11

ATTACHMENT I

[redacted]

JFK Y-5956 - 215.016 PAN AM WORLDPORT DUTY FREE SHOPS
MATERIAL: 800 SQ. FT. FIREPROOFING
DATE: 5/20/88
ASBESTOS CONTRACTOR: ENVIROSAFE
ARCHITECT: SAL PASSALACQUA
CONSULTANT: ATC ENVIRONMENTAL
WASTE HAULER: MITCHKO/ADA
NEED: BULK SAMPLES, AND PROCEDURES.

JFK Y-6062A 215.048 BLDG #53 PAN AM OUTBOUND BAGGAGE
ASBESTOS CONTRACTOR: APED
HYGIENIST: ATC ENVIRONMENTAL
DATE: 1/89 - 4/89
NEED: BULK SAMPLES, FINAL AIR TESTS, AREA AIR SAMPLING AND LOGS.

JFK Y-6074A 215.052 PAN AM WORLD PORT, AREA "D" PORT AREA & BATHROOM
ASBESTOS CONTRACTOR: APED
HYGIENIST: ATC ENVIRONMENTAL
DATE: 2/16/89 PERMIT APPROVAL
NEED: FINAL AIR, AIR TESTS, AND LOGS.

JFK Y-6076 215.059 BLDG #53 PAN AM LOADING BRIDGE CANOPIES
GENERAL CONTRACTOR: BRIDGE TECH INC
ASBESTOS CONTRACTOR: APED INC.
HYGIENIST: A.T.C. ENVIRONMENTAL
DATE: NOV 7, 1989 - DEC 30, 1989
NEED: ADDITIONAL FINAL AIR AND AIR TESTING RESULTS, AND LOGS

JFK Y-6072A 213.087 PAN AM BLDG #53 EAST CUSTOMS AREA
ASBESTOS CONTRACTOR: DSI
HYGIENIST: ATC ENVIRONMENTAL
NEEDS: COMPLETED WASTE MANIFEST, AND LOGS
WASTE HAULER: NATIONAL WASTE DISPOSAL
DATE: 10/87 - 2/90

[redacted]

OEPM II

ATTACHMENT I

JFK Y-6072A 213.087 PAN AM BLDG #53 EAST CUSTOMS AREA
ASBESTOS CONTRACTOR: DSI (FORMALLY ARC)
HYGIENIST: ATC
DATE: 11/19 - 2/20/90
WASTE HAULER: NATIONAL WASTE DISPOSAL
104 EAST 25TH ST.
NEW YORK, NY 10016
(609) 883-1420
NEED: COMPLETED WASTE MANIFESTS, AIR AND FINAL AIR RESULTS

OEPM 11

ATTACHMENT I

CLAYTON ENVIRONMENTAL, INC.
KIRIT DORA, MANAGER
160 FIELDCREST AVE.
EDISON, NJ 08837
(201) 225-6010

[redacted]

JFK Y-5755 PAN AM TERMINAL BLDG/DUTY FREE SHOPS
MATERIAL: 1500 SQ. FT. FIREPROOFING
DATE: 6/5/87-6/25/87
ASBESTOS CONTRACTOR: ENVIROSAFE
GENERAL CONTRACTOR: CDS MESTEL
CONSULTANT: CLAYTON ENVIRONMENTAL
WASTE HAULER: MITCHKO/ADA (201) 227-8160
ARCHITECT: SAL PASSALACQUA
NEED: EPA NOTIFICATION, COMPLETED WASTE MANIFESTS

P 753321

OEPM II

DELETE

NOTE
. Omit all highlighted material
(unless circled)

ATTACHMENT I

[redacted]

JFK Y-5956 - 215.016 PAN AM WORLDPORT DUTY FREE SHOPS
MATERIAL: 800 SQ. FT. FIREPROOFING
DATE: 5/20/88
ASBESTOS CONTRACTOR: ENVIROSAFE
ARCHITECT: SAL PASSALACQUA
CONSULTANT: ATC ENVIRONMENTAL
WASTE HAULER: MITCHKO/ADA
NEED: BULK SAMPLES, AND PROCEDURES.

"NOT AVILIABLE AT THIS TIME"

JFK Y-5906 BLDG #54 TERMINAL EXPANSION PAN AM
DATE: 1/2/89 - 2/1/89
ASBESTOS CONTRACTOR: APED
CONSULTANT: ATC ENVIRONMENTAL
NEED: AIR SAMPLES, FINAL AIR RESULTS, AND LOGS.

"Omit"

JFK Y-6062A 215.048 BLDG #53 PAN AM OUTBOUND BAGGAGE
ASBESTOS CONTRACTOR: APED
HYGIENIST: ATC ENVIRONMENTAL
DATE: 1/89 - 4/89
NEED: BULK SAMPLES, FINAL AIR TESTS, AREA AIR SAMPLING AND LOGS.
NEED: BULK SAMPLES

JFK Y-6061A 215.050 BLDG #53 PAN AM WORLD PORT, SERVICE AREA
CUSTOMS AREA "B" IMMIGRATION AND WEST CUSTOMS
ASBESTOS CONTRACTOR: APED
HYGIENIST: ATC ENVIRONMENTAL
DATE: 1/30/89 - 2/17/89
NEED: FINAL AIR AND AIR TESTS

"Omit entire entry"

NEED: Final air, air sample results, and logs

JFK Y-6074A 215.058 PAN AM WORLD PORT, AREA "D" PORT AREA & BATHROOMS
ASBESTOS CONTRACTOR: APED
HYGIENIST: ATC ENVIRONMENTAL
DATE: 2/16/89 PERMIT APPROVAL
NEED: FINAL AIR, AIR TESTS, AND LOGS.

SAMPLES

JFK Y-6076 215.059 BLDG #53 PAN AM LOADING BRIDGE CANOPIES
GENERAL CONTRACTOR: BRIDGE TECH INC
ASBESTOS CONTRACTOR: APED INC.
HYGIENIST: A.T.C. ENVIRONMENTAL
DATE: NOV 7, 1989 - DEC 30, 1989
NEED: FINAL AIR AND AIR TESTING RESULTS, AND LOGS

ONGOING

AS OF 3/20

additional

"SAVE"

P 753324

OEPM 11

ATC (CON'T)

JFK Y-5981 215.987 BLDG #53 PAN AM OLD TEXAS LOUNGE
ASBESTOS CONTRACTORC: APED CO., INC SMALL
HYGIENIST: ATC ENVIRONMENTAL
DATE: 6/8/88 - 6/9/88
NEED: FINAL AIR, AIR RESULTS AND LOGS

JFK Y-6080A 215.068 PAN AM ODD SIZE CONVEYOR
ASBESTOS CONTRACTOR: APED
HYGIENIST: ATC ENVIRONMENTAL
DATE: MAY 11, 1989 - FEB 20, 1990
NEED: LOGS, AND FINAL AIR RESULTS

"omit"

JFK Y-6072A 213.007 PAN AM BLDG #53 EAST CUSTOMS AREA
ASBESTOR CONTRACTOR: DSI
HYGIENIST: ATC ENVIRONMENTAL
NEEDS: COMPLETED WASTE MANIFEST, AIR AND FINAL AIR RESULTS and Logs
WASTE HAULER: NATIONAL WASTE DISPOSAL
DATE: 10/87 - 2/90 JUST FINISHED!
NO MORE AS OF 3/23

OEPM 11

ATTACHMENT I

APED, INC.
JOE SHANNON, PRINCIPAL
62 PORETE AVE.
NORTH ARLINGTON, NJ 07032
(201) 991-2918

PROJECTS FOR JOHN F. KENNEDY INTERNATIONAL AIRPORT

JFK Y-5906A BLDG #54 TERMINAL EXPANSION - PAN AM
ASBESTOS CONTRACTOR: APED, INC.
CONSULTANT: ATC ENVIRONMENTAL INC
DATE: 1/2/89 - 2/1/89
NEED: AIR SAMPLES, FINAL AIR RESULTS, AND LOGS.

JFK Y-6062A 215.048 BLDG #53 PAN AM OUTBOUND BAGGAGE
ASBESTOS CONTRACTOR: APED, INC.
HYGIENIST: ATC ENVIRONMENTAL, INC.
DATE: 1/89 - 4/89
NEED: BULK SAMPLES, FINAL AIR, AIR SAMPLES, AND LOGS.

JFK Y-6061A 215.050 BLDG #53 PAN AM WORLDPORT SERVICE AREA
CUSTOMS AREA "B" IMMIGRATION AND WEST CUSTOMS.

ASBESTOS CONTRACTOR: APED, INC.
HYGIENIST: ATC ENVIRONMENTAL, INC.
DATE: 1/30/89 TO 2/17/89
NEED: FINAL AIR AND AIR SAMPLES

JFK Y-6074A 215.052 PAN AM WORLDPORT AREA "D" PORT AREA AND BATHROOM
ASBESTOS CONTRACTOR: APED, INC.
HYGIENIST: ATC ENVIRONMENTAL, INC.
DATE: 2/16/89 PERMIT APPROVAL
NEED: FINAL AIR AND LOGS.

JFK Y-5981 215.987 BLDG #53 PAN AM OLD TEXAS LOUNGE
ASBESTOS CONTRACTOR: APED, INC.
HYGIENIST: ATC ENVIRONMENTAL, INC.
DATE: 6/5/88 - 6/9/88
NEED: FINAL AIR, AIR SAMPLES, AND LOGS

JFK Y-6080A 215.068 PAN AM ODDSIZE CONVEYOR
ASBESTOS CONTRACTOR: APED, INC.
HYGIENIST: ATC ENVIRONMENTAL, INC.
DATE: MAY 11, 1989 - FEB 20, 1990
NEED: LOGS, AND FINAL AIR RESULTS.

OEPM 11

APED (CON'T)

JFK Y-6076 215.059 BLDG #53 PAN AM LOADING BRIDGE CANOPY
GENERAL CONTRACTOR: BRIDGETECH INC.
ASBESTOS CONTRACTOR: APED, INC.
HYGIENIST: ATC ENVIRONMENTAL, INC.
DATE: NOVEMBER 7, 1989-CURRENT
NEED: FINAL AIR & AIR SAMPLES AND LOGS

PROJECT FOR LA GUARDIA AIRPORT

[redacted]

P 753331

OEPM 11

ATTACHMENT I

BRIDGETECH, INC.
JAMES LARSON, PRESIDENT
100 H EXECUTIVE DR.
BRENTWOOD, NY 11717
(516) 243-0300

PROJECT FOR JOHN F. KENNEDY INTERNATIONAL AIRPORT

JFK Y-6076 215.059 BLDG #53 PAN AM LOADING BRIDGE CANOPIES
GENERAL CONTRACTOR: BRIDGETECH, INC.
ASBESTOS CONTRACTOR: APED
HYGIENIST: ATC ENVIRONMENTAL
DATE: 11/7/89 - 12/30/89
NEED: FINAL AIR AND AIR TESTING RESULTS AND LOGS

OEPM 11

ATTACHMENT I

CDS MESTEL CONSTRUCTION CORP.
LENARD HOFFMAN, PRESIDENT
124 FORREST ST.
BKLYN, NY 11126
(718) 497-2380
FAX (718) 381-6905

PROJECTS FOR JOHN F. KENNEDY INTERNATIONAL AIRPORT

JFK Y-5813 BLDG #53 PAN AM/UTB RETAIL STORE FOR INT'L SHOP
DATE: 12/86-5/87
ASBESTOS CONTRACTOR: JACK'S INSULATION,
GENERAL CONTRACTOR: CDS MESTEL CONSTRUCTION CORP
ARCHITECT: SAL PASSALACQUA
CONSULTANT: LABORATORIES FOR ENVIRONMENTAL TESTING INC
P.O. BOX 8381
L.I.C., N.Y. 11101
NEED: EPA NOTIFICATION, LOGS, AND COMPLETE WASTE MANIFESTS

JFK Y-5755 PAN AM TERMINAL BLDG/DUTY FREE SHOPS
MATERIAL: 1500 SQ. FT. FIREPROOFING
DATE: 6/5/87-6/25/87
ASBESTOS CONTRACTOR: ENVIROSAFE
GENERAL CONTRACTOR: CDS MESTEL
CONSULTANT: CLAYTON ENVIRONMENTAL
WASTE HAULER: MITCHKO/ADA
ARCHITECT: SAL PASSALACQUA
NEED: EPA NOTIFICATION, COMPLETE WASTE MANIFESTS, AND FINAL AIR

JFK Y-5823 AMERICAN AIRLINES DUTY FREE SHOP MAIN LOBBY
MATERIAL: 400 SQ. FT. FIREPROOFING
DATE: 10/10/87
ASBESTOS CONTRACTOR: ENVIROSAFE
ARCHITECT: S. PASSALACQUA
GENERAL CONTRACTOR: CDS MESTEL
WASTE HAULER: MITCHKO (UNDER ADA)
NEED: EPA NOTIFICATION, SPECIFICATIONS AND LOGS

OEPM 11

ATTACHMENT I

CLAYTON ENVIRONMENTAL, INC.
KIRIT DORA, MANAGER
160 FIELDCREST AVE.
EDISON, NJ 08837
(201) 225-6010

PROJECTS FOR JOHN F. KENNEDY INTERNATIONAL AIRPORT

[redacted]

JFK Y-5755 PAN AM TERMINAL BLDG/DUTY FREE SHOPS
MATERIAL: 1500 SQ. FT. FIREPROOFING
DATE: 6/5/87-6/25/87
ASBESTOS CONTRACTOR: ENVIROSAFE
GENERAL CONTRACTOR: CDS MESTEL
CONSULTANT: CLAYTON ENVIRONMENTAL
WASTE HAULER: MITCHKO/ADA (201) 227-8160
ARCHITECT: SAL PASSALACQUA
NEED: EPA NOTIFICATION, COMPLETED WASTE MANIFESTS AND FINAL AIR

OEPM 11

ATTACHMENT I

[redacted]

JFK Y-5956 215.016 PAN AM WORLD PORT DUTY FREE SHOPS
NAT: 800 SQ. FT. FIREPROOFING
DATE: 5/20/88
ASBESTOS CONTRACTOR: ENVIROSAFE
ARCHITECT: SAL PASSALACQUA
CONSULTANT: ATC
WASTE HAULERS: MITCHKO/ADA
NEED: BULK SAMPLES AND PROCEDURES.

[redacted]

JFK Y-5755 PAN AM TERMINAL BLDG/DUTY FREE SHOPS
MATERIAL: 1500 SQ. FT. FIREPROOFING
DATE: 6/5/87-6/25/87
ASBESTOS CONTRACTOR: ENVIROSAFE
GENERAL CONTRACTOR: CDS MESTEL
CONSULTANT: CLAYTON ENVIRONMENTAL
WASTE HAULER: MITCHKO/ADA
ARCHITECT: SAL PASSALACQUA
NEED: EPA NOTIFICATION, COMPLETED WASTE MANIFESTS, AND FINAL AIR

OEPM 11

ATTACHMENT I

JACK'S INSULATION
JACK BRUCCULERI, PRESIDENT
29-28 DITMARS BLVD
ASTORIA, N.Y. 11105
(718) 726-4221

PROJECT FOR JOHN F. KENNEDY INTERNATIONAL AIRPORT

JFK Y-5813 BLDG #53 PAN AM/UTB RETAIL STORE FOR INT'L SHOP
DATE: 12/86-5/87
ASBESTOS CONTRACTOR: JACK'S INSULATION
GENERAL CONTRACTOR: CDS MESTEL CONSTRUCTION CORP
ARCHITECT: SAL PASSALACQUA
CONSULTANT: LABORATORIES FOR ENVIRONMENTAL TESTING INC
P.O. BOX 8381
L.I.C., N.Y. 11110
NEED: EPA NOTIFICATION, LOGS, AND COMPLETED WASTE MANIFESTS

PROJECT FOR LA GUARDIA AIRPORT

[redacted]

OEPM 11

JFK Y-5956 215.016 PAN AM WORLDPORT DUTY FREE SHOPS
MATERIAL: 800 SQ. FT. FIREPROOFING
DATE: 5/20/88
ASBESTOS CONTRACTOR: ENVIROSAFE
ARCHITECT: SAL PASSALAQUA
CONSULTANT: ATC
WASTE HAULER: MITCHKO (UNDER ADA)
NEED: BULK SAMPLES, AND PROCEDURES

JFK Y-5813 BLDG 53 PAN AM UTB RETAIL STORE FOR INT'L SHOPS
DATE: 12/86 - 5/87
ASBESTOS CONTRACTOR: JACK'S INSULATION
GENERAL CONTRACTOR: CDS MESTEL
CONSULTANT: LABORATORIES FOR ENVIRONMENTAL TESTING, INC.
PO BOX 8381
LONG ISLAND CITY, NY 11101
NEED: EPA NOTIFICATION, COMPLETE WASTE MANIFESTS, AND LOGS

P 753358

OEPM 24

STATE OF NEW YORK - DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH
ASBESTOS CONTROL PROGRAM
ONE MAIN STREET
BROOKLYN, N.Y. 11201
TELEPHONE: (718) 797-7674

ASBESTOS PROJECT NOTIFICATION

Any contractor who intends to engage in an asbestos project involving more than two hundred sixty linear feet or more than one hundred sixty square feet of asbestos or asbestos materials shall notify in writing both the State of New York Asbestos Control Program, at the above address, and the United States Enviromental Protection Agency, Air and Hazardous Material Division, Room 1011, 26 Federal Plaza, New York, N.Y. 10278, ten days prior to the commencement of the project. If an asbestos hazard is present which requires immediate attention, or if emergency conditions make it impossible to give notification ten days prior to commencement of the project, telephone notification must be given to the Asbestos Control Program office. The written notification must then be sent as soon as practicable.

NOTE: Additional copies of this form may be reproduced as needed by the licensee.

1. NAME OF CONTRACTOR	2. NEW YORK STATE ASBESTOS HANDLING LICENSE NUMBE
APED CO. INC.	AC880491

ADDRESS OF CONTRACTOR
62 PORETE AVENUE NORTH ARLINGTON, NEW JERSEY 07032

MAILING ADDRESS (If different than item 3 above)
SAME AS ABOVE

NAME AND TITLE OF DULY AUTHORIZED REPRESENTATIVE	6. TELEPHONE NUMBER OF DULY AUTHORIZED REPRESENT
MICHAEL SHANNON/ DIRECTOR OF FIELD OPERATIONS	(201) 991-2918/564-2665

DESCRIPTION OF BUILDING SITE: PASSENGER TERMINAL (BAGGAGE CONVEYOR AREA)

a. ADDRESS (INDICATE NAME OF BUILDING, IF APPLICABLE)
PAN AM BLDG. #53 (WORLD PORT BLDG.)
JFK INTERNATIONAL AIRPORT

b. COUNTY	c. INDICATE LOCATION OF ASBESTOS WITHIN BUILDING/SITE
QUEENS	SPRAYED ON FIREPROOFING ON BEAMS AND DECKING (ABOVE OUTBOUND CONVEYORS)

d. CURRENT USE OF BUILDING/SITE	e. AGE OF BUILDING (If Applicable)	f. AMOUNT OF ASBESTOS INV IN PROJECT (In square or linear
COMMERCIAL PASSENGER TERMINAL		850 SQUARE FEET

7. STARTING DATE OF PROJECT	9. COMPLETION DATE OF PROJECT (Projected)
MAY 1, 1989	JUNE 1, 1989

10. CHECK APPROPRIATE BOX(ES) FOR THE TYPE OF ASBESTOS PROCEDURE(S) TO BE USED

☐ INSTALLATION ☒ REMOVAL ☐ ENCLOSURE ☐ APPLICATION ☐ ENCAPSULATION

11. NAME AND ADDRESS OF GOVERNMENT AGENCY REQUIRING THE PROJECT, IF ANY

P 759954

OSH-483 (9-87)

OEM24

LAW 70/76 UTILIZING 3-CHAMBI DECON AND NEGATIVE AIR UNITS SUFFICIENT FOR THE AREA.. FULL CONTAINMENT-REMOVAL TO BE DONE AS OUTLINED IN N.Y.C. LOCAL MATERIAL IS TO BE REMOVED, BAGGED & DISPOSED OF WET.

METHOD(S) TO BE USED AT WASTE DISPOSAL SITE (IF APPLICABLE)

PROCEDURE ATTACHED

METHOD(S) TO BE USED AT PROJECT SITE TO TREAT OR DISPOSE OF CONTAMINATED WASTE WATER (IF APPLICABLE)

FILTERED THROUGH A QUAD (4) MICRON FILTER SYSTEM THEN DISCHARGED INTO THE SEWER SYSTEM.

NAME AND ADDRESS OF WASTE DISPOSAL SITE, IF ANY

INDUSTRIAL MAINTENANCE SERVICE
ROUTE 3, BOX 563
CLARKSBURG, WEST VIRGINIA 26301

PERMIT NUMBER: 8426

LIST ALL EQUIPMENT TO BE USED FOR THIS ASBESTOS PROJECT, e.g. NEGATIVE AIR FILTRATION UNITS, RESPIRATORS, WETTING DEVICES, HEPA VACUUMS, ETC., DO NOT INCLUDE NON-ASBESTOS RELATED EQUIPMENT OR EXPENDABLE SUPPLIES. (ATTACH ADDITIONAL SHEETS IF NECESSARY)

DESCRIPTION OF EQUIPMENT	MANUFACTURER	MODEL NUMBER	QUANTITY
NEGATIVE AIR UNITS	TRIDEM	ACCU2M3	3
FULL FACE (PAPR) RESPIRATORS	RACAL		10
HALF FACE RESPIRATORS	WILSON	7400	10
HEPA VACUUMS	HAKO	H-9032	2
HEPA VACUUM	VACTAGON	AU400	1
AIRLESS SPRAYERS	AIRLESSCO	M6017FK22A	2
MANOMETER	DICKSON & CO.	EPR-A2	1

P 759955

SIGNATURE OF CONTRACTOR OR DULY AUTHORIZED REPRESENTATIVE

Michael Shannon

15. DATE

4-12-89

OEPM24

ATC ENVIRONMENTAL INC.
AIR MONITORING DAILY REPORT

May 11, 1989

Client:	Pan American World Airways, Inc.
Project Address:	JFK International Airport, Building #53
Work Area:	West Outbound Oddsize (Oversize) Baggage/Conveyor Modification
ATC Inspector:	Ed Bradshaw
Contractor:	Aped, Co. Inc.

ATC Environmental Inc. arrived on-site to perform pre-abatement air sampling of conveyer belt system, which has suspect ACM on the I beams above. The contractor has built a plywood platform in order to gain access to the I beams; all samples were taken from this platform (the work area). The work area is dusty and windy due to the open door leading to the run-way. Samples were collected at no less than 1250 liters. All sampling requirements of NYC law 76/85 were complied with for all pumps set up.

Project Hours: 0900 - 1430

Air Samples Taken: PAN-WOB-5/11-01 thru 07

P 759959

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

June 14, 1989

Client: Pan American World Airways, Inc.

Project Address: JFK International Airport, Building #53

Work Area: West Oversize Baggage/Conveyor Modification

ATC Inspector: Curtis Preston

Contractor: Aped Co. Inc.

ATC Environmental, Inc. arrived on-site to perform project management during the preparation of the work area. All sampling requirements of NYC law 76/85 were complied with for all pumps set up.

Preparation work continued for the duration of the shift and consisted of removing a strip of asbestos-containing spray-on to establish critical barriers to the slab above.

During the shift, approximately 10 bags of ACM were removed from the site by the waste hauler, to a temporary storage area. Waste load-out procedures were observed by ATC Environmental, Inc. and found to be acceptable.

Project Hours: 2100 - 0700

Air Samples Taken: PA-WOB-6/14-08 thru 14

P 759960

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

June 15, 1989

Client: Pan American World Airways, Inc.

Project Address: JFK International Airport, Building #53

Work Area: West Oversize Baggage/Conveyor Modification

ATC Inspector: Curtis Preston

Contractor: Aped Co. Inc.

ATC Environmental, Inc. arrived on-site to perform project management during the preparation of the work area. All sampling requirements of NYC law 76/85 were complied with for all pumps set up.

Preparation work continued for the duration of the shift and consisted of removing a strip of asbestos-containing spray-on to establish critical barriers up to the slab above.

During the shift, approximately 18 bags of ACM were removed from the site by the contractor to the waste hauler. Waste load-out procedures were observed by ATC Environmental and found to be acceptable.

The analytical results of the previous work day's sampling outside the work area were in compliance.

Project Hours: 2200 - 0730

Air Samples Taken: PA-WOB-6/15-15 thru 21

P 759961

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

July 6, 1989

Client: Pan American Worlds Airways, Inc.

Project Address: JFK International Airport, Building #53

Work Area: West Oversize Baggage Conveyor Modification

ATC Inspector: Curtis Preston

Contractor: APED

ATC Environmental, Inc. arrived on-site to perform project management during the preparation of the work area. All sampling requirements of NYC law 76/85 were complied with for all pumps set up. Preparation work continued for the duration of the shift and consisted of finding and sealing all open spaces in walls, ceiling and floor.

Project Hours: 1900 - 0730

Air Samples Taken: PA-WOB-7/6-22 thru 28

P 759962

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

July 9, 1989

Client: Pan American World Airways, Inc.

Project Address: JFK International Airport

Work Area: West Oversize Baggage/Conveyor

ATC Inspector: Kevin Welsh

Contractor: APED Co., Inc.

ATC Environmental, Inc. arrived on-site to perform project management during the preparation of the work area. All sampling requirements of NYC law 76/85 were complied with for all pumps set up.

Preparation work continued for the duration of the shift and included applying polyethylene sheeting inside the decontamination unit. Previous work day's sampling outside the work area was in compliance.

Project Hours: 2100 - 0600

Air Samples Taken: PA-WOB-7/9-01 thru 06

P 759963

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

OEPM24

July 10, 1989

Client:	Pan American World Airways, Inc.
Project Address:	JFK International Airport
Work Area:	West Oversize Baggage/Conveyor
ATC Inspector:	Kevin Welsh
Contractor:	APED Co., Inc.

ATC Environmental, Inc. arrived on-site to perform project management during the preparation of the work area. All sampling requirements of NYC law 76/85 were complied with for all pumps set up.

Preparation work continued for the duration of the shift and included installing the shower unit in the decontamination unit and applying duct tape to the polyethylene. Previous work day's sampling outside the work area was in compliance.

Project Hours: 2100 - 0600

Air Samples Taken: PA-WOB-7/10-01 thru 04

P 759964

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

OEPM24

July 12, 1989

Client:	Pan American World Airways, Inc.
Project Address:	JFK International Airport
Work Area:	West Oversize Baggage/Conveyor
ATC Inspector:	Kevin Welsh
Contractor:	APED Co., Inc.

ATC Environmental, Inc. arrived on-site to perform project management during the preparation of the work area. All sampling requirements of NYC law 76/85 were complied with for all pumps set up.

Preparation work continued for the duration of the shift and consisted of applying polyethylene sheeting to the walls and floors. Previous work day's sampling outside the work area was in compliance.

Project Hours: 2100 - 0600

Air Samples Taken: PA-WOB-7/12-01 thru 06

P 759965

OEPM 24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

July 13, 1989

Client:	Pan American World Airways, Inc.
Project Address:	JFK International Airport
Work Area:	West Oversize Baggage/Conveyor
ATC Inspector:	Kevin Welsh
Contractor:	APED Co., Inc.

ATC Environmental, Inc. arrived on-site to perform project management during the preparation of the work area. All sampling requirements of NYC law 76/85 were complied with for all pumps set up.

Preparation work was completed during the shift as contractor applied polyethylene to the remaining areas that lacked sufficient protective sheeting.

Project Hours: 2100 - 0700

Air Samples Taken: PA-WOB-7/13-01 thru 06

P 759966

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

OEPM24

July 14, 1989

Client:	Pan American World Airways, Inc.
Project Address:	JFK International Airport
Work Area:	West Oversize Baggage/Conveyor
ATC Inspector:	Kevin Welsh
Contractor:	APED Co., Inc.

ATC Environmental, Inc. arrived on-site to perform project management during the preparation of the work area, removal of asbestos-containing fireproofing, and waste load-out. All sampling requirements of NYC law 76/85 were complied with for all pumps set up.

Since preparation work was completed yesterday, ATC Environmental was able to conduct a prep-inspection of all areas to be affected by the abatement project. The prep-inspection determined that the removal of ACM could begin.

ATC Environmental conducted walk-through inspections of the work area and worker decontamination unit. The walk-through inspections determined that the work area, decontamination unit and procedures therein were acceptable. Negative air pressure was maintained. All critical barriers were intact. Worker decontamination system was maintained.

During the shift, approximately 10 cubic feet of ACM was removed from the site. Waste-load out procedures were observed by ATC Environmental and found to be acceptable.

Previous work day's sampling outside the work area was in compliance.

Project Hours: 2100 - 0630

Air Samples Taken: PA-WOB-7/14-01 thru 06

P 759967

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

July 16, 1989

Client: Pan American Worlds Airways, Inc.

Project Address: JFK International Airport, Building #53

Work Area: West Oversize Baggage/Conveyor

ATC Inspector: Kevin Welsh

Contractor: APED

ATC Environmental, Inc. arrived on-site to perform project management during the removal of asbestos-containing fireproofing and waste load-out. All sampling requirements of NYC law 76/85 were complied with for all pumps set up.

During removal, negative air pressure was maintained, all critical barriers were intact and work decontamination system was maintained. The gross removal methods in use were acceptable.

During the shift, approximately 6 yards of ACM was removed from the site. Waste load-out procedures were observed by ATC Environmental and found to be acceptable.

The analytical results of the previous work day's sampling outside the work area were in compliance.

Project Hours: 2100 - 0630

Air Samples Taken: PA-WOB-7/16-01 thru 06

P 759968

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

July 17, 1989

Client: Pan American Worlds Airways, Inc.

Project Address: JFK International Airport, Building #53

Work Area: West Oversize Baggage/Conveyor

ATC Inspector: Kevin Welsh

Contractor: APED

ATC Environmental, Inc. arrived on-site to perform project management during the removal of asbestos-containing fireproofing and waste load-out. All sampling requirements of NYC law 76/85 were complied with for all pumps set up.

During removal, negative air pressure was maintained, all critical barriers were intact and work decontamination system was maintained. The gross removal methods in use were acceptable.

First stage final cleaning was performed during the shift and consisted of wet-wiping and HEPA vacuuming where ACM was removed as well as all surrounding surfaces. ATC Environmental observed final cleaning procedures and found them to be acceptable.

The analytical results of the previous work day's sampling outside the work area were in compliance.

Project Hours: 2100 - 0630

Air Samples Taken: PA-WOB-7/17-01 thru 06

P 759969

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

July 18, 1989

Client: Pan American Worlds Airways, Inc.

Project Address: JFK International Airport, Building #53

Work Area: West Oversize Baggage/Conveyor

ATC Inspector: Kevin Welsh

Contractor: APED

ATC Environmental, Inc. arrived on-site to perform project management during the waste load-out and final cleaning. All sampling requirements of NYC law 76/85 were complied with for all pumps set up.

Throughout the shift, negative air pressure was maintained, all critical barriers were intact and work decontamination system was maintained. During the shift, approximately 10 cubic feet of ACM was removed from the site by the waste hauler, APED. Waste load-out procedures were observed by ATC Environmental and found to be acceptable.

Second stage final cleaning was performed during the shift and consisted of wet-wiping and HEPA vacuuming where ACM was removed as well as all surrounding surfaces. ATC Environmental observed final cleaning procedures and found them to be acceptable.

The analytical results of the previous work day's sampling outside the work area were in compliance.

Project Hours: 2100 - 0800

Air Samples Taken: PA-WOB-7/18-01 thru 06

P 759970

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

July 19, 1989

Client: Pan American Worlds Airways, Inc.

Project Address: JFK International Airport, Building #53

Work Area: West Oversize Baggage/Conveyor

ATC Inspector: Kevin Welsh

Contractor: APED

ATC Environmental, Inc. arrived on-site to perform project management during the waste load-out, final cleaning and encapsulation. All sampling requirements of NYC law 76/85 were complied with for all pumps set up.

Throughout the shift, negative air pressure was maintained, all critical barriers were intact and the work decontamination system was maintained. Approximately 10 cubic feet of ACM was removed from the site by the waste hauler, APED. Waste load-out procedures were observed by ATC Environmental and found to be acceptable.

Third stage final cleaning was performed during the shift and consisted of wet-wiping and HEPA vacuuming where ACM was removed as well as all surrounding surfaces. ATC Environmental observed final cleaning procedures and found them to be acceptable. After the final cleaning, ATC conducted a pre-final visual inspection of the work area and found it suitable for encapsulation. Encapsulation was performed in an acceptable manner. After encapsulation, ATC conducted a final visual inspection of the work area and found it suitable for final air clearance.

The analytical results of the previous work day's sampling outside the work area were in compliance.

Project Hours: 2100 - 0800

Air Samples Taken: PA-WOB-7/19-01 thru 06

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

July 20, 1989

Client: Pan American Worlds Airways, Inc.

Project Address: JFK International Airport, Building #53

Work Area: West Oversize Baggage/Conveyor

ATC Inspector: Kevin Welsh

Contractor: APED

ATC Environmental, Inc. arrived on-site to perform final air clearance. All sampling requirements of NYC law 76/85 were complied with for all pumps set up.

Throughout the shift, negative air pressure was maintained, all critical barriers were intact and work decontamination system was maintained.

The analytical results of the previous work day's sampling outside the work area were in compliance.

Final air clearance sampling was performed in accordance with NYC law 76/85, section 8175, which included aggressive air sampling techniques. Laboratory analysis of the sampling was conducted in accordance with section 8176. Based upon specifications of section 8177, analytical results of the air sampling cleared the work area for reoccupancy.

Project Hours: 0800 - 1800

Air Samples Taken: PA-WOB-7/20-01 thru 07

OEPM24

ATC ENVIRONMENTAL INC.

Laboratory Analysis

HUDSONS
97 THIRD AVENUE
NEW YORK, NY

P 759998

OEPM24

ATC ENVIRONMENTAL, INC.

DAILY PROJECT LOG

Date: 6/15/88 Inspector: Lumo Tsungu

Project Location: JFK International Airport, Pan Am Terminal

Work Area: Hudson's Shop

Client: Hudson's Contractor:

SUMMARY OF WORK COMPLETED BY CONTRACTOR DURING THE SHIFT

ATC field representative arrived on-site at 2000 and met with the store manager of the News Stand to gain access into the store formally known as the International Shops. ATC representative calibrated and set-up the pumps for pre-abatement air sampling in the store room, which contained cabinets, shelving and counter-cabinets that contained such goods as assorted candies and magazines. The News Stand Manager supplied an employee to stay in the shop for the duration of the sampling period. ATC representative post-calibrated and collected the pumps by 2445, then returned for sample analysis at ATC laboratory and completed work there at 0200.

Project Hours: 2000 - 0200

Air Samples Taken: PA-ST-6/15-01 thru 07

P 759999

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

January 18, 1989

Client: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Departure Level, Hudson's Shop

Inspector: Curtis Preston Contractor: Enviro Shop

ATC Environmental, Inc. arrived on-site to manage the project during preparation activities. All sampling requirements of NYC law 76/85 were complied with for the 3 pumps set-up.

The abatement contractor did not complete all the necessary preparation work. Preparation work is approximately 20% completed and on schedule.

Enviro Safe supervisor and four workers and ATC Environmental, Inc. representative were delayed in gaining access to the site because Pan Am security had not been informed of the projects starting date and, consequently, could not be reached. Work was further delayed by the lack of passes or I.D's for all contractors since security had to double-check abatement personnel whenever they needed to use the nearby men's room.

Contractor completed unloading of all equipment, installation of two layers of poly on most walls, and installation of his own lock on the emergency-exit door.

ATC and contractor representatives noticed an imminent hazard posed by a security gate track. The security gate track prevented poly from being completely installed on the floor. Further more, track was supported only by a counter top shelf jammed underneath it. If this shelf was moved, it would result in the collapse of a portion of the track, causing a potential fiber release from the overhead ducts. Engineering controls, critical barriers and negative air, need to established prior to removing the gate track.

To be continued

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

January 18, 1989

Client: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Departure Level, Hudson's Shop

Inspector: Curtis Preston Contractor: Enviro Shop

ATC also noticed that there was no stationary engineer on-site to initiate and to maintain positive pressure in ducts above suspended ceiling of the work area. ATC contacted Mr. Sway, Mr. Capasso and Mr. Klimekoski to resolve the following problems: The unavailability of a stationary engineer, the lack of keys to the access doors of the decontamination chambers, lack of I.D. passes, and lack of running water in the work area.

ATC advised contractor that negative air filtration units be installed because of the hazard posed by security gate track.

Project Hours: 2100 - 1200

Air Samples Taken: JFK-1/18-001 thru 005

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

January 19, 1989

Client: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Departure Level, Hudson's Shop

Inspector: Curtis Preston Contractor: Enviro Shop

ATC Environmental, Inc. arrived on-site to manage the project during preparation activities. All sampling requirements of NYC law 76/85 were complied with for the 3 pumps set-up.

The abatement contractor did not complete all the necessary preparation work. The preparation work is approximately 60% completed and on schedule.

Fiber counts of all the previous day's sampling outside the work area were in compliance of NYC law 76/85.

Enviro Safe and ATC Environmental, Inc. were delayed in gaining access to the site because they lacked a key to the decontamination unit (D-con). Contractor unloaded negative air units. ATC cautioned the contractor about the hazard posed by the security gate track.

ATC met with Pan Am engineering personnel, Mike Halana and Henry Petschauer, who assured ATC that positive pressure in the ducts was established this afternoon and would be maintained.

ATC recommended that the work area, as presently planned, lacks enough room for both equipment and waste and that the D-con will have to be expanded onto the sidewalk. Longer ladders, 12 foot, will have to be brought into the work area to replace the 6 and 8 foot ladders.

No work is scheduled from Saturday night through Sunday. Work will resume Monday morning.

Project Hours: 2100 - 0900

Air Samples Taken: JFK-1/19-006 thru 010

P 760002

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

January 20, 1989

Client: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Departure Level, Hudson's Shop

Inspector: Curtis Preston Contractor: Enviro Shop

ATC Environmental, Inc. arrived on-site to manage the project during preparation activities. All sampling requirements of NYC law 76/85 were complied with for the 3 pumps set-up.

Fiber counts of all the previous day's sampling outside the work area were in compliance of NYC law 76/85.

The signage, critical barriers, showers and isolation of the decontamination unit are in complete. Contractor needs to post bilingual OSHA signs, state and local laws, emergency phone numbers, building department permit and notification of removal, and fire-evacuation plan. Contractor also needs to establish a worker/visitor sign-in log that can hold photocopies of the contractor's state and city asbestos licenses. Contractor also needs to post a copy of the HVAC waiver.

Work area lacks negative air pressure differential measurement device and negative air pressure filtration units with exhaust tubes.

Contractor undertook building a custom-built shower.

The abatement contractor did not complete all the necessary preparation work.

Project Hours: 2100 - 0900

Air Samples Taken: JFK-1/20-011 thru 015

P 760003

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

January 22, 1989

Client: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Departure Level, Hudson's Shop

Inspector: Curtis Preston Contractor: Envirosafe

ATC Environmental, Inc. arrived on-site to manage the project during preparation activities. All sampling requirements of NYC law 76/85 were complied with for the 3 pumps set-up.

The abatement contractor did not complete all the necessary preparation work. The contractor needed to remove suspended ceiling to seal holes in the walls. These holes caused a loss of negative air pressure.

ATC conducted a prep-inspection of the work area and all areas that will be affected by abatement activities. The prep-inspection determined that the removal of ACM could not begin. The contractor needed to seal holes in wall above suspended ceiling and to extend exhaust tubes of negative filtration units away from the decontamination unit. Presently, the exhaust tubes pose the risk of recycling oxygen-depleted air into the decontamination unit. The contractor also needs to decide upon a common entry.

Fiber counts of all the previous day's sampling outside the work area were in compliance of NYC law 76/85.

Project Hours: 2030 - 1030

Air Samples Taken: JFK-1/22-016 thru 020

P 760004

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

January 23, 1989

Client: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Level 3

Inspector: Curtis Preston Contractor: Envirosafe

ATC Environmental, Inc. arrived on-site to manage the project during preparation activities. All sampling requirements of NYC law 76/85 were complied with for the 3 pumps set-up.

The abatement contractor did not complete all the necessary preparation work. Despite seals on HVAC openings, air is still coming in through places besides the decontamination chambers. ATC observed several openings in the containment: two were in the false soffit above the remaining gate track; other (half-dozen) were in the walls between, beside or above ducts. ATC advised contractor to seal all openings prior to removal by using foam, poly, tape and plywood.

ATC conducted a prep-inspection of the work area and all areas that will be affected by abatement activities. The prep-inspection determined that the removal of ACM could not begin. Four negative air machines still do not make the slightest movement among the flaps in any of the airlock. Manometer does not register more that 5 to 10% of required difference in air pressure inside of the containment. ATC advised the contractor to bring three more large negative air machines tomorrow.

ATC conducted walk-through inspections of the work area and worker decontamination system. The walk-through inspections determined that the work area, decon and the procedures therein were unacceptable. Negative air pressure was not maintained. All critical barriers found were intact. Work decontamination system was not maintained. Besides the negative air flow problem, decontamination unit lacked water on a continuous basis. Passing vehicular traffic had broken the water hose to the unit, and contractor only reconnected the hose when water was needed in the unit. This action led to the abatement workers leaving the decontamination unit without showering. ATC advised the contractor to find an alternative water supply not subject to traffic.

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

January 23, 1989

Client: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Level 3

Inspector: Curtis Preston Contractor: Envirosafe

Fiber counts of all the previous day's sampling outside the work area were in compliance of NYC law 76/85 outside the work area and not in compliance of NYC law 76/85, greater than 0.01 f/cc. Contractor and client were informed of the elevated fiver counts inside the work area.

Project Hours: 2100 - 0900

Air Samples Taken: JFK-1/22-121 thru 125

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

January 24, 1989

Client: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Departure Level 4, Hudson's Shop

Inspector: Curtis Preston Contractor: Envirosafe

ATC Environmental Inc arrived on-site to manage the project during preparation activities. All sampling requirements of NYC law 76/85 were complied with for the three pumps set up.

The abatement contractor did not complete all the necessary preparation work. ATC observed wall openings above ducting several square feet in size. ATC advised contractor to poly these openings. ATC was informed by contractor;s supervisor that it would be done tonight so removal could begin tomorrow. ATC conducted a prep-inspection of the work area and all areas that will be affected by abatement activities. The prep-inspection determined that the removal of ACM could not begin. Improper air flow must be reversed, and there must be at least 0.01 difference in pressure.

ATC conducted walk-through inspections of the work area and worker decontamination system. The walk-through inspections determined that the work area, decon and the procedures therein were acceptable. Negative air pressure was not maintained. All critical barriers were intact. Worker decontamination system was maintained.

Fiber counts of all the previous day's sampling outside the work area were in compliance of NYC law 76/85

Project Hours: 2100 - 1030

Samples Taken: JFK-1/24-026 thru 032

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

January 25, 1989

Client: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Departure Level, Hudson's Shop

Inspector: Curtis Preston Contractor: Envirosafe

ATC Environmental Inc arrived on-site to manage the project during preparation activities. All sampling requirements of NYC law 76/85 were complied with for the three pumps set up.

The abatement contractor did complete all the necessary preparation work. ATC conducted a prep-inspection of the work area and all areas that will be affected by abatement activities. The prep-inspection determined that the removal of ACM could not begin. The necessary air flow and pressure difference were not obtained.

ATC conducted walk-through inspections of the work area and worker decontamination system. The walk-through inspections determined that the work area, decon and the procedures therein were acceptable. Negative air pressure was not maintained, as verified by smoke testing, and air flow testing. All critical barriers were intact. Worker decontamination system was maintained.

Fiber counts of all the previous day's sampling outside the work area were in compliance of NYC law 76/85

Project Hours: 2100 - 1030

Samples Taken: JFK-1/24-031 thru 035

P 760008

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

January 27, 1989

Client: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Departure Level 4, Hudson's Shop

Inspector: Curtis Preston Contractor: Envirosafe

ATC Environmental Inc arrived on-site to manage the project during preparation activities and removal of chyrsotile. All sampling requirements of NYC law 76/85 were complied with for the three pumps set up.

The abatement contractor did complete all the necessary preparation work. ATC conducted a prep-inspection of the work area and all areas that will be affected by abatement activities. The prep-inspection determined that the removal of ACM could begin. Proper air flow and 0.01 negative air pressure differential was achieved at 2120. Contractor was advised by ATC that removal could begin.

ATC conducted walk-through inspections of the work area and worker decontamination system. The walk-through inspections determined that the work area, decon and the procedures therein were acceptable. Negative air pressure was maintained. All critical barriers were intact. Worker decontamination system was maintained. Gross removal methods in use were acceptable.

Waste load-out was performed during the shift. ATC observed the waste load-out and found it to be acceptable. Approximately 75 bags of ACM were removed in the waste load-out. The waste hauler was Contractor and the hauler's permit number will be sent to the client.

First stage, final cleaning was performed during during the shift, and it consisted of wet wiping and HEPA vacuuming of the surfaces from which ACM was removed as well as all surrounding surfaces. ATC observed the cleaning procedures and found them to be acceptable.

Fiber counts of all the previous day's sampling outside the work area were in compliance of NYC law 76/85

Project Hours: 2030 - 0900

Samples Taken: JFK-1/27-036 thru 040

P 760009

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

January 30, 1989

Client: Hudson's Shop

Project Address: JFK Pan AM Building #53

Work Area: Area 8 Departure Level Hudson's Shop

Inspector: Curtis Preston Contractor: Envirosafe

ATC Environmental, Inc. arrived on-site to manage the project during final cleaning. All sampling requirements of NYC law 76/85 were complied with for the 3 pumps set-up.

ATC conducted a walk-through inspections of the work area and worker decontamination system. The walk-through inspections determined that the work area, decon and the procedures therein were acceptable. Negative air pressure was maintained. All critical barriers were intact. Worker decontamination system was maintained. Gross removal methods in use were acceptable.

Waste load-out was performed during the shift. ATC observed the waste load-out and found it to be acceptable. Approximately 5 bags of ACM were removed in the waste-load out. the waste hauler was the contractor and the hauler's permit number will be sent to the client.

Second and third stage final cleaning was performed during the shift, and it consisted of wet-wiping and HEPA vacuuming of the surfaces from which ACM was removed as well as all surrounding surfaces. ATC observed the cleaning procedures and found them to be acceptable.

To be continued

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT

January 30, 1989

Client: Hudson's Shop

Project Address: JFK Pan AM Building #53

Work Area: Area 8 Departure Level Hudson's Shop

Inspector: Curtis Preston Contractor: Evirosafe

After the final cleaning, ATC conducted a pre-final visual inspection of the work area, and the work area was found to be suitable for encapsulation. Encapsulation procedures were performed in an acceptable manner. After encapsulation, ATC conducted a final inspection, which determined that the work area was suitable for final air clearance.

Fiber counts of all the previous day's sampling outside the work area were in compliance of NYC law 76/85.

Project Hours: 2030 - 0800

Air Samples Taken: JFK-1/30-041 thru 045

OEPM24

ATC ENVIRONMENTAL INC.
PROJECT MANAGEMENT DAILY REPORT
01 / 31 / 89

Client: Hudson's Shop

Location: JFK-PAN AM Building #53

Work Area: Area 8, Departure level Hudson's Shop

Inspector: Curtis Preston Contractor: Enviro. Safe

ATC Environmental Inc. arrived on-site to manage the project during final air clearance. All sampling requirements of NYC law 76/85 were complied with for the 5 pumps set up.

After encapsulation, ATC conducted a final visual inspection, which determined that the work area was suitable, for final air clearance.

Fiber counts of all the previous day's sampling outside the work area were in compliance of NYC law 76/85, greater than .01 f/cc. Contractor and client were informed of the elevated fiber counts.

Final Air clearance sampling was performed in accordance with NYC law 76/85, section 8175. Laboratory analysis of the sampling was conducted in accordance to section 8176. Based upon section 8177, results of the laboratory analysis cleared the area for reoccupancy.

Project Hours: 23:35 - 07:00

Air Samples Taken: JFK-PAN-AM-046 thru 052

P 760012

OEPM24

ATC ENVIRONMENTAL INC.
104 East 25th Street • New York, NY 10010 (212) 353-8280

February 2, 1989

Mr. Lloyd Mishkin
Hudson's Shop
97 Third Avenue
New York, N.Y. 10003

Mr. Lloyd Mishkin:

RE: Air sampling clearance for reoccupancy of abatement in JFK-PAN AM building #53, Area 8-Departure Level.

The attached air sample results were all found to be less than 0.01 f/cc, the recommended level for "clean air". It is also my understanding that the site passed a final visual inspection by ATC representative Mr. Curtis Preston.

With the above mentioned results of the air sampling and final inspection it is our opinion that the abated area in question is ready for reoccupancy. If there are any questions regarding this project please contact us at (212) 353-8280.

Sincerely,

Robert E. Adamson

Robert E. Adamson
Director of Laboratory Services
Optical Microscopy

REA/drb
Encl.

P 760013

OEPM24

ATC ENVIRONMENTAL, INC.

TABLE 1

Client Name: Hudson's

Site Address: JFK International Airport
Pan Am Terminal

Work Area: Hudson's Shop

Date of Sample: 6/15/88

SAMPLE #	SAMPLE LOCATION	TIME ON	TIME OFF	AIR VOLUME*	F/CC
PA-ST-6/15-01	Blank				
PA-ST-6/15-02	Blank				
PA-ST-6/15-03	Air sample taken next to door, entrance to the store "pre-abatement".	2108	2431	1279.71	0.004
PA-ST-6/15-04	Air sample taken north of middle of store "pre-abatement".	2104	2430	1418.93	0.003
PA-ST-6/15-05	Air sample taken on the north end of the store "pre-abatement".	2054	2256	1714.10	0.004
PA-ST-6/15-06	Air sample taken in the middle of the store "pre-abatement".	2053	2255	1765.34	0.004
PA-ST-6/15-07	Air sample taken on the south end of the store "pre-abatement".	2052	2254	1772.66	0.003

* Liters

P 760014

OEPM 24

ATC ENVIRONMENTAL, INC.

TABLE 1

Client Name: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Departure Level, Hudson's Shop

Date of Sample: 1/18/89

SAMPLE #	SAMPLE LOCATION	TIME ON	TIME OFF	AIR VOLUME*	F/CC
JFK-1/18-001	Field Blank				
JFK-1/18-002	Field Blank				
JFK-1/18-003	Along retail corridor behind and immediately adjacent to containment exterior wall.	1100	0500	2340	<0.002
JFK-1/18-004	Inside containment in the east end opposite the emergency exit.	0025	0525	1710	0.097
JFK-1/18-005	Inside the clean room adjacent to the electrical panel boxes.	0030	0530	2130	0.058

* Liters

P 760015

OEPM24

ATC ENVIRONMENTAL, INC.

TABLE 1

Client Name: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Departure Level, Hudson's Shop

Date of Sample: 1/19/89

SAMPLE #	SAMPLE LOCATION	TIME ON	TIME OFF	AIR VOLUME*	F/CC
JFK-1/19-006	Field Blank				
JFK-1/19-007	Field Blank				
JFK-1/19-008	Along retail corridor behind and immediately adjacent to containment exterior wall.	1115	0515	2556	0.007
JFK-1/19-009	Inside containment in the east end opposite the emergency exit.	1110	0510	2160	0.008
JFK-1/19-010	Inside the clean room adjacent to the electrical panel boxes.	1105	0505	2772	0.007

* Liters

OEPM24

ATC ENVIRONMENTAL, INC.

TABLE 1

Client Name: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Departure Level, Hudson's Shop

Date of Sample: 1/20/89

SAMPLE #	SAMPLE LOCATION	TIME ON	TIME OFF	AIR VOLUME*	F/CC
JFK-1/20-011	Field Blank				
JFK-1/20-012	Field Blank				
JFK-1/20-013	Retail corridor - adjacent to and immediately behind exterior wall of containment.	2115	0515	3216	0.002
JFK-1/20-014	Inside containment east end of work area opposite emergency exist.	2120	0520	3264	0.078
JFK-1/20-015	Inside clean room adjacent to electrical panel boxes.	2125	0525	3552	0.072

* Liters

OEPM24

ATC ENVIRONMENTAL, INC.

TABLE 1

Client Name: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Departure Level, Hudson's Shop

Date of Sample: 1/22/89

SAMPLE #	SAMPLE LOCATION	TIME ON	TIME OFF	AIR VOLUME*	F/CC
JFK-1/22-016	Field Blank				
JFK-1/22-017	Field Blank				
JFK-1/22-018	Retail corridor - adjacent to and immediately behind exterior wall of containment.	2040	0840	4752	0.002
JFK-1/22-019	Inside containment east end of work area opposite emergency exist.	2045	0845	4824	0.028
JFK-1/22-020	Inside clean room adjacent to electrical panel boxes.	0250	0850	5184	0.048

* Liters

P 760018

OEPM24

ATC ENVIRONMENTAL, INC.

TABLE 1

Client Name: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Level 3

Date of Sample: January 23, 1989

SAMPLE #	SAMPLE LOCATION	TIME ON	TIME OFF	AIR VOLUME*	F/CC
JFK-1/23-121	Field Blank				
JFK-1/23-122	Field Blank				
JFK-1/23-124	Outside containment in retail corridor adjacent to and immediately behind south wall.	2150	0520	3060	0.002
JFK-1/23-125	Inside containment at east end near Emergency Exit.	2155	0525	2790	0.010
JFK-1/23-126	Inside clean room of worker decon-tamination chamber.	2200	0530	3150	0.028

* Liters

P 760019

OEPM24

ATC ENVIRONMENTAL, INC.

TABLE 1

Client Name: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Level 3

Date of Sample: January 24, 1989

SAMPLE #	SAMPLE LOCATION	TIME ON	TIME OFF	AIR VOLUME*	F/CC
JFK-1/24-026	Field Blank				
JFK-1/24-027	Field Blank				
JFK-1/24-028	Outside containment in retail corridor adjacent to and immediately behind south wall.	2215	0615	3360	<0.001
JFK-1/23-025	Inside containment at east end near Emergency Exit.	2220	0620	2976	0.043
JFK-1/23-026	Inside clean room of worker decon-tamination chamber.	2225	0625	3456	0.003

* Liters

P 760020

OEPM24

ATC ENVIRONMENTAL, INC.

TABLE 1

Client Name: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Departure Level

Date of Sample: January 25, 1989

SAMPLE #	SAMPLE LOCATION	TIME ON	TIME OFF	AIR VOLUME*	F/CC
JFK-1/25-031	Field Blank				
JFK-1/25-032	Field Blank				
JFK-1/25-033	Outside containment in retail corridor adjacent to and immediately behind south wall.	0010	0510	2190	<0.002
JFK-1/25-034	Inside containment at east end near Emergency Exit.	0015	0515	1950	0.016
JFK-1/25-035	Inside clean room of worker decon-tamination chamber.	0020	0520	2100	0.016

* Liters

P 760021

OEPM24

ATC ENVIRONMENTAL, INC.

TABLE 1

Client Name: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Level 3

Date of Sample: January 27, 1989

SAMPLE #	SAMPLE LOCATION	TIME ON	TIME OFF	AIR VOLUME*	F/CC
JFK-1/27-036	Field Blank				
JFK-1/27-037	Field Blank				
JFK-1/27-038	Outside containment in retail corridor adjacent to and immediately behind south wall.	2130	0730	4320	<0.001
JFK-1/27-039	Inside containment at east end near Emergency Exit.	2135	0735	3780	0.003
JFK-1/27-040	Inside clean room of worker decon-tamination chamber.	2140	0740	4260	0.007

* Liters

P 760022

OEPM24

ATC ENVIRONMENTAL, INC.

TABLE 1

Client Name: Hudson's Shop

Project Address: JFK, Pan AM Building #53

Work Area: Area 8, Level 3

Date of Sample: January 30, 1989

SAMPLE #	SAMPLE LOCATION	TIME ON	TIME OFF	AIR VOLUME*	F/CC
JFK-1/30-041	Field Blank				
JFK-1/30-042	Field Blank				
JFK-1/30-043	Outside containment in retail corridor adjacent to and immediately behind south wall.	2150	0550	3408	<0.001
JFK-1/30-044	Inside containment at east end near Emergency Exit.	2155	0555	2976	<0.002
JFK-1/30-045	Inside clean room of worker decon-tamination chamber.	2200	0600	3360	<0.001

* Liters

P 760023

OEPM24

ATC ENVIRONMENTAL, INC.

TABLE 1

Client Name: Hudson's Shop

Site Address: JFK-PAN AM Building #53

Work Area: Area 8, Departure level Hudson's Shop

Date of Sample: January 31, 1989

SAMPLE #	SAMPLE LOCATION	TIME ON	TIME OFF	AIR VOLUME*	F/CC
FINALS					
JFK-PAN-AM-046	Field blank				
JFK-PAN-AM-047	Field blank				
JFK-PAN-AM-048	Inside containment north east corner breathing zone level - aggressive.	0030	0440	3000	0.002
JFK-PAN-AM-049	Inside containment south east corner breathing zone level - aggressive.	0050	0500	3250	0.003
JFK-PAN-AM-050	Inside containment center - breathing zone level - aggressive.	0100	0510	3500	0.001
JFK-PAN-AM-051	Inside containment south west corner breathing zone level - aggressive.	0110	0520	3500	0.001
JFK-PAN-AM-052	Inside containment north west corner breathing zone level - aggressive.	0115	0525	3750	<0.001

All above results regarding fiber concentration are well below the acceptable limits of 0.01 f/cc.

*Liter

P 760024

PAN AMERICAN WORLD AIRWAYS

PASSENGER TERMINAL EXPANSION

JOHN F. KENNEDY INTERNATIONAL AIRPORT

SECTION 9K

SPRAYED FIREPROOFING

9K-01. WORK INCLUDED

This section covers sprayed fireproofing for the structural steel (not encased in concrete) and the underside of the metal decking.

1

9K-02. ACCEPTANCE AND PERFORMANCE CRITERIA 835-23

a. General. The sprayed fireproofing shall have been tested by Underwriter's Laboratories, Inc., in accordance with requirements of ASTM Designation E119-67, Standard Methods of Fire Tests of Building Construction and Materials, and shall also have the approval of the New York City Board of Standards and Appeals (NYCBSA).

b. Fireproofing Requirements. The structural steel members shall be protected with adequate fireproofing material of
1 thicknesses and densities required to provide the fire resistance rating required by the Building Code. The sprayed fireproofing beneath the deck assembly together with adequately proportioned concrete fill above the metal decking shall provide the fire resistant deck assembly as required by the Building Code.

c. Bond Strength. Minimum bond strength between the fireproofing material and the structural steel or metal decking shall be not less than five hundred (500) pounds per square foot when set and dry.

d. Erosion Resistance. The fireproofing material shall not be subject to losses from the finished application by sifting, flaking or dusting. This performance shall be measured by the results of a test for erosion resistance when subjected to high velocity air flow across the surface of dried samples. The samples thus tested must be representative of machine applied material similar to that which can be expected on the project.

DEPOSITION EXHIBIT #28 1-23-97

PA 0175170

TP005048

USM-008356

HD00112446

DEFENDANT'S EXHIBIT DX 659

1 9K-03. MATERIALS

a. General. The sprayed fireproofing materials shall be mill-mixed and shall be delivered in original, unopened packages bearing the name of the product, the manufacturer's name and the Underwriters' Laboratories, Inc. label. The materials shall be stored off the ground, undercover, and away from damp surfaces. Materials shall be kept dry until ready for use. Materials that have been exposed to water before actual use shall be discarded.

1 b. Fireproofing Material. All fireproofing materials shall have the approval of the New York City Board of Standards and Appeals, and shall be one of the following products:

1 (1) Without Asbestos. The sprayed fireproofing material shall be cementitious type, shall not contain asbestos material, and shall be Mono-Kote 4 (without asbestos) as manufactured by Zonolite Division of W. R. Grace & Co., or approved equal.

1 (2) Asbestos Containing Material. The sprayed fireproofing material shall be cementitious type, and may be Mono-Kote 3, which contains asbestos, as manufactured by Zonolite Division of W. R. Grace & Co., or approved equal, provided that its application procedures comply with the Order of the Commissioner, New York City Department of Air Resources, entitled "In the Matter of the Spraying of Asbestos Containing Material", effective June 23, 1970.

1 c. Water. Water shall be clean, fresh and free from organic and mineral impurities which would be harmful to the sprayed fireproofing materials.

835-23

1 9K-04. INSTALLATION

Application of sprayed fireproofing material shall be in accordance with the printed instructions of the manufacturer, the requirements specified in Clause 9K-03b(2) above, and the fire test report information. Only experienced applicators, approved by the materials manufacturer and Architect shall be allowed to place the materials. A qualified manufacturer's representative shall be present for initial application to guide and assist applicator's personnel. All surfaces to which sprayed fireproofing will be applied shall be thoroughly cleaned of oil, grease, dirt, loose paint, mill scale or any other matter which would impair bond. Temperatures and enclosure conditions shall be as specified by the materials manufacturer. All patching and repairing of sprayed fireproofing, due to cutting by other trades, shall be performed under this section.

9K-05. CLEAN-UP

1 After completion of fireproofing work, equipment shall be removed and all wall and floor areas cleaned of deposits of sprayed fireproofing materials.

THE PORT AUTHORITY

To: Kevin Blanch - ALTF - JFK Room No 376

From: Paul A. Fernandez / Tenant Liaison / JFK / (718) 656-2584

Date 5 / 11 / 90

JDM 215.125
Re: Y-6256A - Pan Am - Bldg 53
Concourse Level Refugee
Lounge. Asbestos Abatement

For your files: Asbestos Certification Letter and
Permit Application
Waiver Letter

Paul Fernandez

cc: Carolyn Clancy

TP 18191

Defense Exhibit

DX-1190

PORT AUTHORITY OF NEW YORK AND NEW JERSEY
Asbestos Certification Letter and Permit Application

[illegible]A - Pan Am - Bldg 53 - Concourse Level Refugee Lounge - Asbestos Abatement

Instructions: Part One or Two of the Asbestos Certification Letter and Permit Application shall be completed and submitted with form PA-531. If Part Two indicates that asbestos containing material will be disturbed during the term of the project, then complete Part Three, Asbestos Abatement Permit Application.

Part One - Certification of a Non-Asbestos Project

The area of construction has been surveyed and no asbestos containing material (ACM) is present or will be disturbed during the course of this project. Complete one of the following:

NJ Facility:

Name of Professional Engineer or Architect	Signature of Professional Engineer or Architect	License No.	Date

NY Facility: PAN-AM BLDG. 53 REFUGEE LOUNGE- CONCOURSE LEVEL JFKIA

Name of Certified NYC Investigator	Signature of Certified NYC Investigator	Certification Number	Date

Part Two - Certification of an Asbestos Project

The area of construction has been surveyed, samples have been taken and the test results of the suspect asbestos containing material (acm) reveals the following:

ACM - PRODUCT	TYPE OF ASBESTOS	APPROX. % OF ASBESTOS	No. of Samples	No. of Positive
Spray-on Material	CHRYSOTILE	3-4	2	2
Pipe Insulation				
Boiler Insulation				
Other				

Note: Type of Asbestos = Chrysotile, Amosite, Crocidolite, Anthophyllite, Tremolite and Actinolite

AL PEREZ	[signature]	ABIH #3300	4-12-90
Name of Certified Environmental Consultant	Signature of Certified Environmental Consultant	Environmental Consultant Certificate No.	Date

D. ABATEMENT METHOD
1. Glove Bag Procedure
2. Full Site Containment X
3. Partial Containment
4. Structural Containment (Enclosure)
5. Other

E. ASBESTOS ABATEMENT CONTRACTOR
Name: Advatex Asbestos Abatement
License Number: AC-88-0766
Address: 1501 Broadway, NY, NY 10036
Telephone Number: 212-921-0600
Contractor Project Supervisor: Stan Proskurnia
Principal: Joseph P. Donnelo

F. ASBESTOS WASTE DISPOSAL HAULER
Name: Brookdale Environmental, Inc.
Address: 1117 Old Country Rd. Plainview, NY
Telephone Number: 516-938-0065

G. ENVIRONMENTAL LAB
Name: ATC Environmental, Inc.
Address: 104 East 25th Street, NY, NY 10010
Telephone Number: 212-353-8280

H. ESTIMATED ABATEMENT SCHEDULE (see attached Waiver Letter)
Start Date: May 17, 1990 Completion Date: June 13, 1990

I. TENANT CONTACT
Name: Mr. Frank Grill
Telephone Number: 718-632-6038

Part Four - INFORMATION TO BE FURNISHED BY THE LINE DEPARTMENT

A. TAA No.: Y-6256A Cost Recovery No.: 215.125
B. Line Department Project Manager: Paul Fernandez
Telephone Number: (718) 6 6- 584

Part Five - APPROVAL BY PORT AUTHORITY:

The asbestos abatement permit application has been reviewed and the specifications, drawings, and the information in items 3-7 have been approved.

Environmental Engineering
Signature:
Title:
Date: 5/10/90

Environmental Management Division
Signature:
Title:
Date:
Permit No.

TP 18193

Part Three - Asbestos Abatement Permit Application

A. LOCATION:

Facility	Pan Am, JFKIA
Building No.	53
Building Area	Refugee Lounge, Gate 2
A. Boiler Room	
B. Mechanical Equipment Room	
C. Other	New Men's Toilet

B. PURPOSE: Reason for abatement: Operation & Maintenance ____
Demolition ____ Renovation X Other ____

C. SCOPE OF WORK, TYPE OF MATERIAL AND ASSOCIATED COSTS:

1. Removal	Boiler Insulation		SQ.FT.
	Pipe Insulation		L.FT.
	Pipe Elbows/Fittings	#	
	Duct Insulation		SQ.FT.
	Spray-on Fireproofing	300	SQ.FT.
	Transite Material		SQ.FT.
	Cable Insulation		L.FT.
	Other		
	Total Cost Of Abatement (Materials, Labor, Disposal, etc.) *	$ 12,050.00	
2. Replacement	Boiler Insulation		SQ.FT.
	Pipe Insulation		L.FT.
	Pipe Elbows/Fittings	#	
	Duct Insulation		SQ.FT.
	Spray-on Fireproofing	300	SQ.FT.
	Transite Material		SQ.FT.
	Cable Insulation		
	Other		
	Total Cost Of Replacement (Materials, Labor, etc.) *	$ 750.00	
3. Cleanup/Repair	(Indicate Quantity	4875	CU.FT.
	Total Cost Of Cleanup (Labor, Disposal, etc.)*	$ 12,800	
4. Size Of Site Containment		325	SQ.FT.

5. Does the scope of work described in this tenant alteration application include work other than asbestos abatement ? Yes X No ___

WAIVER LETTER
ASBESTOS REMOVAL

Asbestos abatement, when required by law, adds signficantly to the cost of renovation and/or reconstruction. To offset such costs, the Port Authority has instituted litigation against miners and manufacturers of asbestos containing materials to recover for the property damage caused by the presence of these materials at its facilities.

The Port Authority intends to include expenses incurred by tenants in its lawsuit against the miners and manufacturers of the asbestos products found within Port Authority buildings for all tenants who provide the following information and assistance within the time frames listed below:

1. Access to the area to be abated by the Port Authority and defendants for the purpose of inspection and sampling of asbestos containing materials prior to erection of containment barriers, and 50 days notice in advance of the start of abatement. This sampling program is outlined in Attachment 1.

2. The building information outlined in Attachment 2 within 90 days of the date of final approval of the Tenant Alteration Application.

3. The property damage information including actual costs outlined in Attachment 3 within 90 days of the date of completion of the asbestos removal project.

4. Additional documentation when required for the furtherance of the litigation.

5. Possible production of witnesses for deposition or trial.

Even if tenants do provide this information and cooperate with the Port Authority's litigation, there is no assurance that the Port Authority will realize a recovery on their behalf. Tenants should, therefore, investigate all legal

alternatives available to them at this time.

If however, the tenant decides not to comply with the requirements of the litigation summarized above, thereby possibly foregoing the opportunity of being partially or totally reimbursed for expenses incurred, such tenants must complete and sign the waiver below and return it with their application.

Regardless of whether or not the tenant cooperates with the litigation, the Port Authority of New York and New Jersey Asbestos Certification Letter must be completed and submitted with PA-532, Tenant Construction or Alteration Application. The Tenant Construction or Alteration Application will not be accepted without the Certification Letter being complete.

WAIVER

_____
(Applicant's name as it appears on lease or permit), hereby waives the right to reimbursement from the Port Authority for asbestos abatement costs, and waives the right to bring suit against the Port Authority for any cause relating to the presence of asbestos in the premises covered by the lease or permit under which this Tenant Alteration Application is submitted.

PAN AMERICAN WORLD AIRWAYS INC
Applicant's Name As It Appears
On Lease Or Permit

Frank Thiel
(By)
DIRECTOR DESIGN & CONST
~~President~~
(Title)

1/89

TP 18196

Dwg's	SUB	CAD. TUBE
Spec's	6	FILE

SPECIFICATIONS

THE PORT OF NEW YORK AUTHORITY
Tenant Construction Review Unit
RECEIVED
AUG 11 1969
Noted Y3175 6
Referred to

FOR

DOMESTIC ARRIVALS TERMINAL

Bldg 53

PAN AMERICAN WORLD AIRWAYS
JOHN F. KENNEDY INTERNATIONAL AIRPORT
JAMAICA, NEW YORK

JUNE 1969

JOHN L. O'BRIEN, JR. - ARCHITECT
101 Park Avenue
New York, New York 10017

PFISTERER, TOR & ASSOCIATES
Structural Engineers
42 West 39th Street
New York, New York 10018

OFFICE OF ERNEST P. FRANCK
Mechanical Engineers
200 South Service Road
New York, New York 11577

0012970

0012971

SPECIFICATION INDEX
FOR
DOMESTIC ARRIVALS TERMINAL
PAN AMERICAN WORLD AIRWAYS
JOHN F. KENNEDY INTERNATIONAL AIRPORT
JAMAICA, NEW YORK

THE PORT OF NEW YORK AUTHORITY
Tenant Construction Section
RECEIVED
AUG 11 1969
Noted _____
Returned to _____

INVITATION TO BID
INSTRUCTIONS TO BIDDERS
BID BOND (OR BID SECURITY)
PROPOSAL
GENERAL CONDITIONS - A.I.A. Document A201
SUPPLEMENTARY GENERAL CONDITIONS

TECHNICAL SECTIONS

DIVISION 1 - GENERAL REQUIREMENTS
1A. Special Requirements
1B. List of Drawings

DIVISION 2 - SITE WORK
2A. Site Preparation
2B. Earthwork
2C. Piling
2D. Pavements and Walks (to follow)
2E. Site Improvements (to follow)
2F. Storm Drainage System

DIVISION 3 - CONCRETE
3A. Concrete Work
3B. Precast Concrete

DIVISION 4 - MASONRY
4A. Masonry
4B. Stone Work

DIVISION 5 - METALS: STRUCT. & MISC.
5A. Structural Steel
5B. Metal Floor & Roof Decks
5C. Misc. & Ornamental Metal
5D. Steel Pan-Type Stairs

DIVISION 6 - CARPENTRY
6A. Rough Carpentry
6B. Millwork

DIVISION 7 - MOISTURE PROTECTION
7A. Roofing & Sheet Metal
7B. Waterproofing & Dampproofing
7C. Wall Flashing
7D. Caulking & Sealants

DIVISION 8 - DOORS, WINDOWS, GLASS.
8A. Hollow Metal Doors & Frames
8B. Aluminum Entrances
8C. (not required)
8D. Aluminum Window Wall
8E. Finish Hardware
8F. Glass & Glazing
8G. Vertical Lift Doors

DIVISION 9 - FINISHES
9A. Gypsum Drywall
9B. Tile Work
9C. Painting & Finishing
9D. Acoustical Treatment
9E. Resilient Flooring
9F. Epoxy Wall Coating
9G. Sprayed-On Fireproofing

DIVISION 10 - SPECIALTIES
10A. Metal Toilet Partitions
10B. Toilet Room Accessories

DIVISIONS 11, 12, & 13
(not required)

DIVISION 14 - CONVEYING SYSTEMS
14A. Dumbwaiter

DIVISION 15 - MECHANICAL
15A. Plumbing
15B. HVAC

DIVISION 16 - ELECTRICAL
16A. Electrical Work

DOMESTIC ARRIVALS TERMINAL
PAN AMERICAN WORLD AIRWAYS
J.F. KENNEDY INTERNATIONAL AIRPORT

SECTION 9G

SPRAYED-ON FIREPROOFING

SCOPE OF WORK

a. General: Provide all labor, materials, equipment and services and perform all operations required for complete installation of all sprayed-on fireproofing and related work as indicated on the drawings or specified herein, and in accordance with all applicable requirements of the Contract Documents.

b. Work Included: The work shall include, but not be limited to the following:

(1) Sprayed-on fireproofing on all beams, girders, metal deck system (where required), and other structural steel not otherwise fireproofed by masonry fireproofing.

APPLICABLE STANDARDS

a. Codes and Regulations

(1) Except as otherwise indicated on the drawings or specified herein, all work under this section shall conform to the applicable requirements of the local Building Code and regulations of all governmental authorities having jurisdiction.

(2) Where requirements indicated on the drawings or specified herein, differ from the Building Code or the requirements of the governmental authorities having jurisdiction, the more stringent requirements shall govern.

(3) Before application of any fireproofing material, the Contractor shall furnish to the Architect documentary evidence that the proposed application has been approved by the authorities having jurisdiction for the intended use.

MATERIALS

a. General: Sprayed-on fireproofing system shall be "Gold Bond Fire-Shield Plaster" as manufactured by National Gypsum Co., "Red Top Firecode "V" Plaster" as manufactured by U.S. Gypsum Co., "Mono-Kote" as manufactured by the Zonolite Division, W.R. Grace & Co., or approved equal, and conforming to the following requirements.

(1) Sprayed-on fireproofing shall have been tested by the Underwriters' Laboratories, Inc., in accordance with the Fire Hazard Classification, Guide No. 40 U8.4 1/2, meeting the requirements of NFPA Pamphlet No. 220. Each bag of material shall bear the UL label indicating that the fireproofing materials be used in accordance with construction details in accordance with Underwriters Laboratories Guide No. U18.3, for Cementitious Mixtures.

b. Water shall be clean, fresh and potable.

MANUFACTURERS' LITERATURE

a. Copies of manufacturers' latest published literature on all materials specified herein shall be submitted for Architect's approval.

DELIVERY AND STORAGE

a. All packaged materials shall be delivered to the site in original, unopened containers, clearly indicating manufacturer's name, brand name and other identifying information.

b. Materials shall be stored in a dry location, off the ground and in such manner as to prevent damage or intrusion of foreign matter. All materials which in the opinion of the Architect have become damaged or otherwise unfit for use, during delivery or storage shall be replaced at the expense of the Contractor.

THICKNESS OF SPRAYED-ON FIREPROOFING

a. The thickness of the completed sprayed-on fireproofing installation shall be such as to provide the hourly fire resistance rating for the various locations listed below, and in accordance with the requirements referenced above. The Contractor shall submit certified performance test data from a recognized laboratory, approved by the Architect, confirming that the fireproofing material proposed for use, has the ratings required for the thickness of material to be used. Interpolated or extrapolated data will not be accepted.

(1) Beams, girders, etc. - 2 hours

(2) Columns - 2 hours

(3) Metal deck - 1 hour

1. APPLICATION

a. General: All sprayed-on fireproofing work shall be performed by skilled workmen under the direct supervision of, and using equipment as recommended by, the approved fireproofing material manufacturer.

b. Preparation

(1) Surfaces to receive sprayed-on fireproofing shall be thoroughly cleaned of dirt, dust, oil, loose paint, galvanizing particles and any other materials which would prevent proper adhesion of the fireproofing material.

(2) Sprayed-on fireproofing shall not be applied when the outdoor temperature or the temperature of the steel is below 55 deg. F. or likely to fall below that temperature within 48 hours after the application. If, in order to maintain temperature within job progress, the Contractor is obliged to apply the required ing at temperatures below 55 deg. F., he shall provide all necessary temporary heat and protection in order to maintain a temperature of 55-70 deg. F. before, during and for 48 hours after application.

c. Workmanship

(1) Sprayed-on fireproofing shall be applied in strict conformance with the manufacturer's latest printed instructions and of thicknesses specified above in accordance with code requirements and referenced standards.

(2) Damaged or disturbed portions of the finished sprayed-on fireproofing installation shall be repaired at no additional cost to the Owner.

CLEANING AND PROTECTION

a. Upon completion of the work, all unused materials, containers and equipment shall be removed from the site. All floors, walls, and other adjacent surfaces that are stained, covered with fireproofing material marred or otherwise damaged by work under this section shall be cleaned and repaired and all work and the adjacent areas shall be left in a clean and perfect condition.

b. All completed work shall be adequately protected from damage by subsequent building operations and effects of weather. Protection shall be by methods recommended by the manufacturer of installed materials and as approved by the Architect.

31. GAS PIPING SYSTEM

a. The Contractor shall furnish, set, connect and test all gas piping to all outlets, equipment and appliances as shown on plans.

b. The Contractor shall arrange with the Brooklyn Union Gas Co. for the installation of a 2 1/2" valved gas connection into the existing meduim pressure gas service main. From this connection arrangements shall be made with the Brooklyn Union Gas Co. to install a 21/2" gas service main to the gas regulator as shown on the plans.

c. Underground piping shall be protected and installed as required by the Brooklyn Union Gas Co.

d. Service control valve, regulator and meter shall be in accordance with the requirements of the Brooklyn Union Gas Co. Gas meter shall be installed where indicated.

e. Underground Gas Service Piping shall be installed in a trench above with a minimum of 2'6" cover. The distance from any electric underground service line shall be 3'0" minimum or as otherwise directed by the Brooklyn Union Gas Co.

f. Pipe and fitings installed underground shall be given two (2) coats of bitumastic paint, and wrapped with two layers of tar saturated woven asbestos fabric.

g. Every outlet, piece of equipment, or appliance having a gas connection, shall be separately controlled, each by a full-sized American Car & Foundry Co. lubricated full-way 125 lb. plug valve with square shoulder and removable wrench.

h. Capped drips shall be installed at the foot of each riser and all gas piping shall be installed so that it will drain back to the risers.

i. All pipes shall be properly, frequently and securely supported, so as to be free from deflection, movement and vibration.

j. All pipes shall be installed in straight, workmanlike alignment and even spacing.

Building House Sewer	C26-1606.4(b)
Water Systems	C26-1606.4(c)
Gas Piping Systems	C26-1606.4(d)
Standpipe System	C26-1702.20

33. COVERING

a. All insulation shall be applied over clean dry surface with all joints firmly butted together.

b. All openings, joints, laps and end strips shall be sealed against moisture penetration with vapor barrier cement, J-M No. 42 Adhesive or approved equal. All vapor barriers shall be of the fire retardant type.

c. All insulation exposed to view shall be finished with 8 oz. pasted canvas. On chilled and cold water exposed to view, 8 oz. canvas shall be pasted over sealed vapor barrier. Insulation concealed from view, (except that with vapor barrier jacket) shall be finished with standard canvas jacket. All canvas tabs shall be pasted down with No. 40 adhesive.

d. All insulation concealed from view shall be further secured with at least two metal bands per section. Bands shall be omitted under 8 oz. canvas.

e. Insulation shall be protected at hangers by a section of calcium silicate pipe insulation and a metal shield on the outside of the insulation. The above applies to glass fiber insulation. All hollow steel protection sadlles shall be filled with loose glass fiber insulation.

f. All covering specified above shall be onntinuous through walls, partitions and floors.

g. For cold water and pump discharge material shall be 3/4" thick glass fiber pipe insulation Johns-Manville Micro-Lok or approved equal, with white Flame retardant vapor barrier jacket. Fittings, valves and flanges shall be insulated with glass fiber blanket 1 pcf minimum density, wrapped firmly under compression (minimum 2:1), tied with jute twine, given a smoothing coat of

finishing cement, and further vapor sealed with canvas (8 oz. on exposed) embedded between two coats of J-M No. 40 adhesive or approved equal.

h. For hot water supply and return piping use glass fiber pipe insulation, Johns-Manville Micro-Lok or approved equal, in the 3/4" thickness. For fittings, valves and flanges under 4", insulating cement. Over 4" segments, blocks or preformed sections of pipe insulatinn wired in place and given a smoothing coat of asbestos cement. Thickness and finish same as adjacent pipe insulation.

i. For horizontal storm water leaders the material shall be 1" thick Glass Fiber pipe insulation, Johns-Manville Micro-Lok with flame retardant vapor barrier jacket (Flame-Bar" or approved equal. Fittings, valves and flanges shall be insulated with glass fiber blanket 1 pcf minimum density, wrapped firmly under compression (minimum 2:1), tied with jute twine, given a smoothing coat of finishing cement, and further vapor sealed with canvas (8 oz. on exposed) embedded between two coats of J-M #40 adhesive or approved equal.

j. Piping subject to freezing shall be further protected by 1-1/2" thick glass fiber pipe insulation applied over above specified insulation. Finish for inside layer of insulation shall be omitted and placed over outside layer.

34. CONNECTION FOR HEATING CONTRACTOR

a. Provide and install cold water and waste connections for various heating requirements shown on drawings and on heating plans.

b. These consist of the following:

1. Water connection for filling heating system - 1/2" c.w.

35. DRAIN VALVES

a. It shall be possible to drain the water from all sections of the hot, cold, circulating and drinking water piping. Where

3. THERMAL INSULATION FOR PIPING

a. All insulation shall be applied over clean dry surfaces with all joints firmly butted together.

b. All openings, joints, laps and end strips shall be sealed against moisture penetration with vapor barrier cement, J-M #47 adhesive or approved equal.

c. All insulation exposed to view shall be finished with 8 oz. pasted canvas. On chilled and cold water exposed view, 8 oz. canvas shall be pasted over sealed vapor barrier. Insulation concealed from view, (except that with vapor barrier jacket) shall be finished with standard canvas jacket. All canvas laps shall be pasted down with J-M #40 adhesive.

d. All insulation concealed from view shall be further secured with at least two metal bands per section. Bands shall be omitted under 8 oz. canvas.

e. Insulation shall be protected at hangers by a section of calcium silicate pipe Insulation and a metal shield on the outside of the insulation. The above applies to glass fiber insulation. All hollow steel protection saddles shall be filled with loose glass fiber insulation.

f. For hot water supply and return and condensate piping:

1. Material: Glass fiber pipe insulation, Johns-Manville Micro-Lok or approved equal, with a thickness of 3/4".

2. Fittings, Valves and Flanges: Shall be insulated with 1 p.c.f. minimum density glass fiber blanket, Johns-Manville Microlite or equal, wrapped under compression (minimum 2:1), tied with jute twine and given a coat of insulating cement. Finish and thickness shall be the same as adjacent pipe insulation.

g. For refrigerant suction piping:

1. Material: Foamed plastic pipe insulation, Johns-Manville Aerotube or approved equal. 1/2" thick.

2. Application: Where possible insulation shall be slipped over tubing in full cylinder. Where necessary to cut and at joints, insulation shall be joined by brushing with suitable adhesive (Johns-Manville #57 or equal). Surfaces shall be allowed to become 'tacky' before being pressed together.

h. For freeze protection:

1. Piping subject to freezing shall be further protected by 1 1/2" thick glass fiber pipe insulation applied over above specified insulation. Finish for inside layer of insulation shall be omitted and placed over outside layer.

44. THERMAL INSULATION FOR DUCTWORK

a. All insulating materials shall be applied over clean dry surface. It is the intent of the specification that all vapor barriers shall be sealed to prevent moisture penetration. Ducts having internal liner shall not be further insulation.

b. For ductwork not exposed to view:

1. Material: Glass Fiber blanket insulation 1" thick, 1 pcf density, Johns-Manville, Microlite, or approved equal. The Insulation shall have a "K" factor not exceeding.245 @ 75° F mean temp.

2. Application: Insulation shall be cut slightly longer than circumference of duct to insure full thickness at corners. Insulation shall be adhered to duct with fire resistant adhesive, J-M No. 42 Adhesive or approved equal, applied to duct in 4" wide brush strips on 12" centers. Insulation shall be further secured with loops of #12 with gauge galvanized steel wire on 12" centers.

3. Finish: No further finish required on ducts used solely for heating. Ducts carrying air at a lower than ambient temperature shall have a vapor barrier facing type FSK (.001 aluminum foil, glass scrim, kraft) laminate, applied over the insulation. All joints shall be sealed with 2" wide vapor barrier tabs sealed with J-M 42 Adhesive or equal.

c. For Ductwork exposed to view:

1. Material Glass fiber insulation 6 pcf minimum density, Johns-Manville 414 Spintex, or approved equal, 1" thick.

2. Application: Insulation shall be applied to duct by impaling over insulation pins. Pins shall be welded to duct at a rate of one pin per square foot. Pins shall be placed adjoining insulation joints. Speed clips shall be pushing over pins and firmly pressed into the insulation. The excess pin length shall be clipped off close to the clip.

3. Finish: Insulation shall have a factory applied vapor barrier of asphalt-kraft paper, Johns-Manville VA or equal. All joints, and other openings shall be sealed with strips of the vapor barrier embedded in J-M No. 42 Adhesive or approved equal. Galvanized corner angles shall be applied and 8 oz. canvas completely adhered to the vapor barrier with J-M No. 40 adhesive.

d. For Ductwork from Kitchen Exhaust Hoods (#10 gauge block iron):

1. Material: Hydrous Calcium Silicate, Johns-Manville Thermobestos, or approved equal, 1 1/2" thick.

2. Application: Insulating blocks shall be secured to duct with #12 W&M gauge galvanized wire attached to anchors. Blocks shall be further secured on underside of duct with J-M No. or equal.

3. Finish: Insulation shall be given two 1/4" coats of finishing cement, Johns-Manville #352 or equal. The first coat shall be applied over galvanized hexagonal wire. The second coat shall be mixed 2:1 with portland cement. Doors shall be insulated as above. Framing angles shall be proveded around access doors.

45. SOUND INSULATION

a. All ducts connecting to Exhaust Fans, except Kitchen Hood Exhaust Fans, shall be insulated as follows for a distance of 10'0" from the fan inlet. Provide 1/2" thick Johns-Manville "Airocoustic" pasted and secured with pins and washers. All joints shall be taped.

b. Insulation shall be similarly applied for a distance of 10'0" to the ducts on the discharge side of all supply units; on the suction side of return fans and for the full distance indicated on the drawing to ducts inducated to be acoustically lined.

c. Where acoustic insulation is applied internally to ducts, the duct dimensions shown on drawings shall be the inside dimensions of the insulation.

46. PAINTING

a. All equipment shall be delivered with prime coat of paint.

b. Paint all pipe hangers with one coat of rust inhibiting paint equal to Rustoleum.

47. IDENTIFICATION OF PIPING

a. All pipe lines, equipment and appratus, after finished painting under another division shall be identified by means of labels indicating its system, use or equipment identification marking, and in the case of pipe lines, also the direction of flow.

b. Each system identification or labels shall have its own distinguishing color. Letters and numerals on labels shall be 1" high. The Contractor shall submit samples and schedules for approval.

ZONOLITE

CONSTRUCTION PRODUCTS DIVISION

July 5, 1973

Environmental Protection Agency
1 North Wacher Drive
Chicago, Illinois 60606

ATTENTION: Director, Enforcement Division

Re: National Emissons Standards for
Hazardous Air Pollutants
Sub Part B, Sec. 6122E1, Spraying

Dear Sir,

The subject reference requires that a report be made on those construction projects on which a fireproofing material is being spray applied.

The attached is a list of fireproofing jobs on which Grace's Monokote fireproofing is being sprayed. Monokote fireproofing in use today is manufactured without the addition of any asbestos and fully complies with the requirements of Sec 6122E1.

We are presently involved in discussions with EPA officials regarding this reporting procedure. Very shortly we expect that EPA will conclude that this reporting procedure is unnecessary and can be discontinued. Until that decision is made, we will continue to report to you.

Very truly yours,

Construction Products Division
W. R. Grace & Company

W. K. Rogers
Manager, Eastern Region

WKR/kaf
cc: T. P. Feit

Attachment

We hope the information given here will be helpful. It is based on our best knowledge, and we believe it to be true and accurate. Please read all statements, recommendations or suggestions herein in conjunction with our conditions of sale which apply to all goods supplied by us. We assume no responsibility for the use of these statements, recommendations or suggestions, nor do we intend them as a recommendation for any use which would infringe any patent or copyright.

GRACE

Applicator	Jobsite
Patti Plastering Corp. 2384 Flatbush Ave. Brooklyn, N.Y. 11234	Bankers Trust Liberty & Washington N.Y., N.Y.
Glenbro Plastering 2384 Flatbush Ave. Brooklyn, N.Y. 11234	G.E. Bldg. 31-35 Eston Turnpike Fairfield, Conn.
J. P. Gara 5211 N. Lawrence St. Phila., Pa.	c/o Turner Construction 1234 Market St. Phila., Pa.
Duggan & Marcon P.O. Box 2324 Allentown, Pa. 18601	c/o Murray Walter, Inc. Gracedale County Home Nazareth, Penna.
Cuddihy Huebner Lamparter 295 Merrit Avenue Wyandanch, N.Y.	Cultural Center Swan & Madison Albany, N.Y.
F. M. Venzie 1909 Taylors Lane Cinnaminson, N.J. 08077	General Accident Bldg. 5th & Walnut Sts. Philadelphia, Pa.
Lundy Lumber 280 Arch Street Williamsport, Pa. 17701	Williamsport Hospital Rural Ave. & Walnut Williamsport, Pa.
Longo & Kolasa 377 Church Avenue Cedarhurst, L.I., N.Y. 11516	Dedell Gardens 100 Terrace Avenue Hempstead, L.I., N.Y.
Scientific Coating P.O. Box 463 Orange, N.J. 07050	Hastings Townhouse 445 Broadway Tarrytown, N.Y.
McKeown Plastering 1541 Stillwell Ave. Bronx, N.Y. 10461	Pathmark Supermarket 1880 Bartow Ave. Bronx, N.Y.
Giamboi Fireproofing 729 W. Merrick Rd. Valley Stream, N.Y.	Painting Facility(Brooklyn Navy Yard) Seatrain Ship Bldg. Brooklyn, N.Y.
Miller Masons 726 Adriatic Ave. Atlantic City, N.J. 08401	Sears Office Bldg. Route 30 St. Davids, Pa.
Giamboi Bros., Inc. 2508 Coney Island Avenue Brooklyn, N.Y.	Green Point Hospital Flushing Ave. & Broadway Brooklyn, N.Y.
T.J. McGlone, Inc. 2083 Elizabeth Avenue Rahway, N.J. 07065	Newark Airport Terminal 3 Newark, N.J.

C7304A-

RECEIVED
JUL 3 1973
NORTH BRUNSWICK, N.J. 08902

Applicator	Jobsite
Acme Plastering 15 Wharton Street Newark, N.J. 07101	Englewood Hospital Engle Avenue Englewood, N.J.
Cuddihy Huebner Lamparter 295 Merrit Avenue Wyandanch, N.Y.	Pan-Am Bldg. J.F.K. Airport Queens, N.Y.
C. J. Coakley 115 Hillwood Ave. Falls Church, Va. 22046	F.B.I. Bldg. 9th & E St. N.W. Washington, D.C.
Mario DiBono plaster Co. 370 Northern Blvd. Great Neck, L.I., N.Y. 11021	Celanese Bldg. 48th St. & 6th Ave. N.Y., N.Y.
Patti Plastering 2384 Flatbush Avenue Brooklyn, N.Y. 11234	C.A.V. 225th & Lenox St. N.Y., N.Y.
Longo & Kolasa 377 Church Avenue Cedarhurst, L.I., N.Y. 11516	Concordia College Library White Plains & Tanglewyde Bronxville, N.Y.

073341

07334.

Dickman & Sons
18450 Livernois
Detroit, Michigan 48208

Berti Co.
25380 Five Mile Road
Detroit, Michigan 48239

Wm. Reichenbach Plastering
2446 W. Jolly
Okemos, Mich. 48864

South Macomb Hospital
12 Mile & Hoover Road
Warren, Michigan

Metro Airport New Terminal
Romulus, Michigan

M. S. U. Office Building
Harrison & E. Crescent
East Lansing, Michigan

07733.

Easley & Rivers
P.O. Box 458
Monroeville, Penna. 15146

Becker Plastering Co.
14048 Indian Hollow Road
Grafton, Ohio 44044

Eastman-Kodak Co.
Kodak Park
Rochester, New York

J. J. Morris & Sons
P.O. Box 14038
Pittsburgh, Pennsylvania 15239

Carolina Drywall Co.
1320 Lynn Avenue
Turtle Creek, Penna. 15145

James Banda Plastering
Spanish Main
Monroeville, Penna.

Central Medical Pavilio
Center Avenue
Pittsburgh, Penna.

Carmalt School
Breining & Georgette
South Hills
Pittsburgh, Penna.

Kaufman's Dept. Store
Ft. Steuben Mall
Steubenville, Ohio

Lorain Co. Administratio
Third & Middle
Elyria, Ohio

Construction Div.,Bldg.
1041 Ridge Road West
Rochester, New York

Pace School
Baum Bldg. & S. Beatty
East Liberty, Penna.

Larry's Bldg. Supplies Di
1320 Lynn Avenue
Turtle Creek, Penna.

Altoona Area High School
6th Ave. & 14th Street
Altoona, Penna.

Capital Dist. Lath & Plaster Co., Inc.
1900 Maxon Road
Schenectady, New York 12308

Acmat Corpoation
111 Prestige Park Road
East Hartford, Conn. 06108

The Bader Company
180 Flynn Avenue
Burlington, Vermont 05401

T. J. Bell Plaster Co.
501 S. Pearl Street
Albany, New York

Davis Acoustical Corp.
4 Tyler Street
Troy, New York

Schnectady Bank
Lower State Street
Schnectady, N.Y.

Conn. Finance Bldg.
Corner Main & Pearl Sts.
Hartford, Conn.

Mercy Hospital
Springfield, Mass.

St. Peter's Hospital
New Scotland Avenue
Albany, New York

Albany Savings Bank
501 State
Schnectady, New York

07334

Blazier-Pierce Co.
2440 Virginia Avenue
Springfield, Virginia

B. R. Thomas
49 Harford Road
Beltsville, Maryland

Davenport Insulation
8420 Terminal Road
P.O. Box 706
Springfield, Virginia

National Floors & Ceiling
1011 North Fremont Avenue
Baltimore, Maryland

Labor Dept.
3rd & Constitution, N.W.
Washington, D. C.

Harford Heights Elem. Sc
Broadway & North Ave.
Baltimore, Maryland

Circle Towers Apartments
Springfield, Virginia

Catonsville Community Co.
Catonsville, Maryland

SPECIFICATION S-2600-3

GENERAL CONSTRUCTION

NEW ENGINE TEST FACILITY

PAN AMERICAN WORLD AIRWAYS, INC.
JFK INTERNATIONAL AIRPORT
JAMAICA, NEW YORK

THE PORT OF NEW YORK AUTHORITY
RECEIVED
1968
Noted
Referred To
Y3105 (4)

BURNS AND ROE, INC.
ENGINEERS AND CONSTRUCTORS
HEMPSTEAD, N.Y.

AUGUST 23, 1968

INSTRUCTIONS TO BIDDERS

FOR

SPECIFICATION S2608-3

GENERAL CONSTRUCTION

FOR THE

NEW JET ENGINE TEST FACILITY

FOR

PAN AMERICAN WORLD AIRWAYS, INC.
J. F. KENNEDY INTERNATIONAL AIRPORT
NEW YORK, NEW YORK

Burns and Roe, Inc.
320 Fulton Ave.
Hempstead, New York 11550

TABLE OF CONTENTS
OF
INSTRUCTIONS TO BIDDERS

		Page
1.	BIDDING DOCUMENTS	ITB-1
2.	SUBMISSION OF BID	ITB-1
3.	ADDITIONAL COPIES OF BIDDING DOCUMENTS	ITB-1
4.	EXAMINATION OF DOCUMENTS	ITB-1
5.	INTERPRETATIONS	ITB-2
6.	AVOIDANCE OF MISUNDERSTANDINGS IN BID	ITB-2
7.	BID MODIFICATIONS	ITB-2
8.	PRICES	ITB-3
9.	COMPLETENESS OF BID	ITB-3
10.	RESPONSIBILITY FOR SUBMISSION OF BIDS	ITB-4
11.	MODIFICATION OF BID AFTER SUBMISSION	ITB-4
12.	WITHDRAWAL OF BID	ITB-4
13.	VALIDITY PERIOD FOR BIDS	ITB-4
14.	EVALUATION OF BIDS	ITB-4
15.	ACCEPTANCE OF BID OR REJECTION OF ALL BIDS	ITB-5
16.	EXECUTION OF CONTRACT	ITB-5
17.	SUBCONTRACTORS	ITB-5

TABLE OF CONTENTS

TECHNICAL SECTIONS

FOR

SPECIFICATION S2608-3

CONSTRUCTION WORK

FOR

THE NEW JET ENGINE TEST FACILITY

DIVISION	TITLE	SECTION	TITLE
1		---	General Requirements
2	Site Work		
		2A	Clearing, Excavating, Filling and Backfilling
		2B	Timber Piling
		2C	Stone Screenings Foundation Course
		2D	Asphalt Concrete Top Course
		2E	Chain Link Fences
3	Concrete	3A	Concrete Work
4	Masonry		
		4A	Masonry
		4B	Cast Stone Coping
5	Metals: Structural and Miscellaneous	5A	Structural Steel
		5B	Open Web Steel Joists
		5C	Miscellaneous Metal
		5D	Steel Roof Decking
		5E	Wire Mesh Partitions
6	Carpentry	---	Carpentry
7	Moisture Protection		
		7A	Not Used
		7B	Built-Up Roofing
		7C	Sheet Metal Work
		7D	Caulking
		7E	Cement Asbestos Panels
8	Doors, Windows and Glass		
		8A	Metal Doors and Frames
		8B	Rolling Steel Doors
		8C	Glass and Glazing
		8D	Wood Overhead and Vertical Lift Doors

DIVISION	TITLE	SECTION	TITLE
9	Finishes	9A	General Painting
		9B	Spray-On Fireproofing
		9C	Resilient Floors
		9D	Ceramic Tile
		9E	Acoustical Tile
10	Specialties	10A	Metal Toilet Enclosures and Screens
		10B	Builders Hardware
		10C	Moveable Metal Partitions
11	Equipment	---	Equipment Furnished by Others to be Erected by the Contractor
12	Furnishings	---	Not Used
13	Special Construction	13A	Sound Retarding, Blast and Temperature Resistant Test Cell Doors and Viewing Windows
		13B	Lead Lining for Walls Between Control Room and Test Cell
		13C	Interior Acoustic Metal. Panels for the Acoustical Plenum
14	Conveying Systems	14A	Hand Operated Overhead Traveling Crane
15	Mechanical	15A	Receipt, Storage, Checkout and Installation Procedures.
		15B	Miscellaneous Pumps
		15C	Fluid Assemblies
		15D	Valves
		15E	Miscellaneous Tanks
		15F	Local Instrumentation and Controls
		15G	Piping
		15H	Plumbing
		15I	Heating, Ventilation and Air Conditioning
		15J	Pipe Supports
		15K	Specialties
		15L	Thermal Insulation
		15M	Fire Protection
		15N	Lift Platform and Lifting System
		15O	Cable and Hose Track

DIVISION	TITLE	SECTION	TITLE
16	Electrical	---	Electrical
17	Instrumentation and Controls	17A	Instrumentation Tubing, Wire, Cable and Connectors

DIVISION 5

SECTION 5C

MISCELLANEOUS METAL WORK

1.0 SCOPE

The work covered by this section of the specification consists in furnishing all plant, labor, materials, equipment and services necessary for and incidental to the furnishing and erection or installation of all miscellaneous metal indicated on the Contract Drawings and as specified herein.

2.0 SHOP DRAWINGS

2.1 Complete shop drawings of all miscellaneous metal work shall be submitted in accordance with the General Provisions for approval by the Engineer.

2.2 These drawings shall show the methods of joining, thicknesses of metal, the relationship and methods of fastening to all adjacent materials and finishes, and all necessary reinforcements, framing and structural supports.

3.0 MEASUREMENTS, ETC.

It shall be the responsibility of the Contractor to coordinate his work with the work of other trades to the end that all details of construction, attachment and finish may be properly worked out.

4.0 FABRICATION AND ERECTION

4.1 General

Insofar as possible, work shall be fitted and shop assembled, ready for erection. Work shall be executed in strict accord with drawings, details and approved shop drawings. Structural steel framing, connection, parts and accessories shall, where applicable, conform to the Handbook of the American Institute of Steel Construction. Jointing and intersection of metals shall be accurately made, tightly fitted, and made in true planes with adequate fastenings.

21.0 INSULATION MARINITE - 36

Insulation for the concrete walls, ceiling and floor of the augmenter tube enclosure shall be a structural insulating panel such as Marinite - 36 as manufactured by Johns-Manville. Panels shall be attached to the concrete surfaces by powder-driven fasteners spaced no greater than one-foot apart. Fasteners for the panels shall be Ramset drive pins having a 3/16 inch shank diameter and a 3/8 inch flat head.

22.0 SHOP AND ERECTION DRAWINGS

22.1 General

The Contractor shall submit shop drawings, erection drawings and shop bills for approval in accordance with the General Provisions.

22.2 Details

The shop drawings shall include anchor locations, expansion joint details, framing plans, shop details, and erection plans of all steel work and shall be made in conformity with the best modern practices and with due regard to speed of fabrication and erection.

DIVISION 7

SECTION 7B

BUILT-UP ROOFING

1.0 SCOPE

The work covered by this section of the specification consists in furnishing all plant, labor, materials, equipment and services necessary for and incidental to the furnishing and installing of all roof insulation, bituminous flashing, and all other work required to make a complete, workmanlike and waterproof job.

2.0 GENERAL

Asphalt built-up roofing, asphalt-saturated felt vapor barrier and insulation shall be applied to the roof surface as indicated on the drawings. Vapor barrier and insulation will not be required for the Test cell roof.

3.0 MATERIALS

3.1 Roof Insulation

Roof insulation shall be similar or equal to Barrett asphalt-impregnated rigid fiberboard roof insulation completely coated with asphalt on all sides and edges, laid in two (2) layers, each layer shall be 1 inch thick.

3.2 Bitumen and Felt

Bitumen and felt shall be Barrett or equal, and shall meet the requirements of the Underwriters' Laboratories for Class "A" Roofing Materials.

3.3 Surfacing Material

Surfacing material shall be silicate gravel, hard, dry, and free from dirt, clay, loam, sand, elongated particles, and flat or sharp-edged particles. Particles shall range in size from 1/4-inch to 5/8-inch. Foreign substances or materials that would cause deterioration or staining of any metal with which they would come in contact shall be removed.

DIVISION 7

SECTION 7E

CEMENT ASBESTOS PANELS

1.0 SCOPE

The work covered by this section of the specification consists in furnishing all plant, labor, equipment, appliances and materials, and performing all operations in connection with the furnishing and installation of all Cement Asbestos and related work complete, in accordance with the Contract Drawings and as herein specified.

2.0 WORK INCLUDED

.1 Cement asbestos extruded facing panels

.2 Accessories and fastenings including hanger bars

.3 Protection

.4 Cleaning

3.0 SHOP DRAWINGS

3.1 Shop Drawings

Shop drawings shall be submitted to the Engineer for approval in accordance with the General Conditions.

Shop drawings shall show the materials, sizes, sections and dimensions of the units, the jointing, anchoring girt framing and all necessary details.

4.0 SAMPLES

The Contractor shall submit, for approval, samples of all cement asbestos materials he proposes to use, all in accordance with the General Conditions.

5.0 SHIPPING AND DELIVERY

Cement asbestos material shall be carefully packed for transportation and all precautions shall be taken against damage to the material in transit. Where necessary to insure against damage, the material shall be crated.

6.0 MATERIALS

6.1 Colored extruded cement asbestos members shall be made of an inorganic mixture of synthetic calcium aluminum silicate binder, formed under hydrothermal conditions, reinforced with finely dispersed asbestos fibers integrally mixed with inorganic pigments and fillers. The material shall be homogeneous and free from stratifications. The extruded asbestos cement panels shall be Johns-Manville ACE process "Colorlith", flush surface, meerschaum color, sandblast finish, or approved equal.

6.2 The extruded colored asbestos cement units shall be sealed on all exposed faces with the manufacturer's clear, breathing type, silicone sealer.

6.3 Abutting Joints

Abutting joints of the extruded panels shall be sealed with pressure sensitive vinyl foam tape as manufactured by Norton Company, Troy, New York. The tape shall be Number 578 1/2 inch width and shall closely match the color of the panels, all as approved.

6.4 Accessories and Fastenings

6.4.1 Hanger Bars (150°) supporting members for cement asbestos panels, shall be included under the work of this Section and shall be 3/16" stainless steel.

6.4.2 Toggle Bolts, Screws and Fasteners

Toggle bolts, screws and fasteners shall be stainless steel of sizes required to properly secure the panels to the masonry and hanger bars.

7.0 ERECTION AND SETTING

Cement asbestos panels shall be accurately set and solidly secured in place. They shall be true to line, with faces of abutting members even and true in plane. The Contractor shall do all cutting and fitting in the field necessary to overcome any inaccuracies in the work or to make the material fit and conform to the structural conditions of the building. The joints of abutting members shall be approximately 1/8 inch wide but in all cases shall be tightly closed and sealed by the pressure sensitive tape when the panel units are in place.

DIVISION 9

SECTION 9B

SPRAYED-ON FIREPROOFING

1.0 SCOPE

The work covered by this section of the specification consists in furnishing all plant, labor, equipment, appliances, and materials, and performing all operations necessary and required for sprayed-on fireproofing work in accordance with the Contract Drawings and as specified herein.

2.0 GENERAL

2.1 Provide sprayed fireproofing to structural steel in areas indicated.

2.2 All clips, inserts, clamps, etc. required for support of ductwork-piping, etc. shall be installed prior to the beginning of work under this section.

3.0 MATERIALS

3.1 The fiber shall be of factory-quality controlled and formulated mix consisting of virgin asbestos fibers, mineral-wool fiber, combined with inorganic binders.

3.2 The bonding adhesive shall be as recommended by the manufacturer of the sprayed-on fireproofing.

3.3 The sealer shall be as recommended by the manufacturer of the sprayed-on fireproofing.

3.4 Material shall be supplied to the job in sealed paper bags, properly marked and labeled to show the approval of the Underwriters' Laboratories, Inc.

3.5 Thickness of fireproofing shall be such as to provide a three-hour fire-retardance rating.

3.6 Materials and methods of application shall conform to the New York City Building Code and shall be subject to the approval of the Engineer.

DIVISION 9

SECTION 9C

RESILIENT FLOORS

1.0 SCOPE

The work covered by this section of the specification consists in furnishing all plant, labor, equipment, appliances and materials and in performing all operations in connection with the furnishing and installing of vinyl asbestos flooring complete, in strict accordance with the Contract Drawings and as specified herein.

2.0 SAMPLES

Before the flooring work is started, the samples of materials listed below shall be submitted for approval.

Vinyl-asbestos tile	2 each
Base	2 each

3.0 MATERIALS

3.1 Vinyl Asbestos Tile

Vinyl asbestos tile shall be 1/8 inch thick and 9" x 9" squares.

3.2 Colors and Patterns

Colors and patterns shall be as selected by the Owner.

3.3 Base

Base shall be homogenous vinyl cove type 6" high, color to be selected by the Owner. Provide one-piece internal and external corners for all right angle corners.

3.4 Adhesives

Adhesives of the type recommended by the manufacturer of the tile and base shall be used in accordance with the manufacturers' directions.

DIVISION 9

SECTION 9E

ACOUSTICAL TILE

1.0 SCOPE

The work covered by this section of the specification consists in furnishing all plant, labor, equipment, appliances and materials, and performing all operations in connection with ceilings, complete, and in strict accordance with the Contract Drawings and as specified herein.

2.0 MATERIALS

2.1 Acoustic Tile (Control Room)

2.1.1 Acoustic material shall be Fiberglass Fissured, Vinyl finish Acoustical tile. Tile shall be rated as Class A, Grade 3 in Federal Specification SS-A-118b, in manufacturer's white finish.

2.1.2 Tiles shall be 24" x 48" x 3/4" thick and have a N.R.C. range of .85 to .90 for application on mechanical suspension system. Tiles shall have fissured texture.

2.2 Acoustic Tile (Toilet and Hydraulic Systems Area)

2.2.1 Acoustic material shall be waterproof, non-combustible, high density ceramic board similar to Armstrong Travertine Ceramaguard or equal. Tile shall be rated as Class A, Grade 2B in Federal Specification SS-A-118b in manufacturer's white finish.

2.2.2 Tiles shall be 24" x 48" x 5/8" thick and have a N.R.C. range of .60 to .70 for application on mechanical suspension systems.

2.3 Suspension System

2.3.1 Suspension system shall be a system of exposed tees. Main tees shall be supported on galvanized flat iron or steel, size 1/8 inch by 1 inch. Main tees shall be of not less than .025-inch-thick cold-rolled steel, double-web bulb tee section 1-1/2 inches high. Bottom flange shall be 15/16 inch wide.

DIVISION 10

SECTION 10C

MOVABLE METAL PARTITION

1.0 SCOPE

The work covered by this section of the specification consists in furnishing all plant, labor, equipment, appliances and materials and in performing all operations in connection with the furnishing and installing of Movable Metal Partitions, complete, in accordance with the Contract Drawings and as specified herein.

2.0 WORK INCLUDED

Movable metal and glass partition including gloss and glazing.

3.0 SHOP DRAWINGS

Submit shop drawings showing partition layout, elevations and finish. Shop drawings must be approved by the Engineer before fabrication and assembly of material.

4.0 MATERIALS

4.1 General

Exposed steel shall be full-pickled cold-rolled furniture stock free from all defects, pits, scales, buckles or seams. Gauges specified are U.S. Standard. Partition shall be as manufactured by Acme Metal Partition, Inc.

4.2 Panel Units

Partition shall be 2-3/4" thick, posts 3" thick, insulated with rockwool, factory assembled with threaded tie rods (permitting field cutdown). Partition unit verticals shall be No. 16 gauge rolled steel, panel plates, No. 20 gauge steel with horizontal reinforcements 12" apart welded to back face of panel with double row of spot welds 3" on center.

DIVISION 13

SECTION 13C

INTERIOR ACOUSTICAL METAL PANELS FOR THE ACOUSTICAL PLENUM

1.0 SCOPE

The work covered by this section of the specification consists in furnishing all plant, labor, equipment, appliances, and materials and in performing all operations in connection with the furnishing and installation of all acoustical metal panels complete, all as indicated on the Contract Drawings and as herein specified.

2.0 MATERIALS

2.1 Panels

2.1.1 Panels shall be "Noise-Shield" four inches thick "Septum" type as manufactured by the Industrial Acoustics Company, New York.

2.1.2 Both surfaces shall be 22 gauge perforated sheet with 3/32 inch diameter holes on 3/16 inch staggered centers and a 16 gauge cold rolled steel septum sheet in the center. Design weight maximum 9 lbs per square foot.

2.1.3 Acoustic fill shall be incombustible, inert, mildew-resistant and vermin proof..

2.1.4 The face sheet shall be welded and riveted to the panel assembly to acoustically compress and hold in place the fill materials. Panel assembly shall hold the fill material in place under severe conditions of vibrations encountered in shipping and installation.

3.0 ACOUSTIC PERFORMANCE

3.1 The absorption and transmission loss values for the panels shall be not less than the following:

.1 Transmission loss in decibels,

Octave Band	45 90	90 180	180 355	355 710	710 1400	1400 2800	2800 5600	5600 11200
T.L.:	26	33	30	42	51	29	58	58

DIVISION 15

SECTION H

PLUMBING

1.0 SCOPE

This section covers the plumbing systems, complete, including

.1 Domestic Cold Water and Hot Water

.2 Sanitary Soil, Waste and Vent

.3 Toilet Fixtures

.4 Storm Water and Floor Drainage

2.0 APPLICABLE CODES AND SPECIFICATIONS

All plumbing shall be in accordance with the New York City Administrative Code, New York City Building Code, and all local laws and regulations.

In addition, the following specifications and standards shall apply insofar as they conform to or are not in contradiction with the applicable legal or administrative codes. The issue in effect on the date of bid shall apply.

2.1 American Society of Mechanical Engineers (ASME)

ASME Boiler and Pressure Vessel Code, Section VIII; Unfired Pressure Vessels

2.2 United States of America Standards Institute (USAS)

A21.4 Cement and Mortar Lining for Cast Iron Pipe and Fittings for Water

A21.6 Cast Iron Pipe Centrifugally Cast in Metal Molds for Water or Other Liquids

A21.8 Cast Iron Pipe Centrifugally Cast in Sand-Lined Mold for Water or Other Liquids

A40.1 Cast-Iron Soil Pipe and Fittings

A40.4 Air Gaps in Plumbing Systems

A40.6 Backflow Preventers in Plumbing Systems

encased in concrete for a distance of at least 3 feet on each side of the crossing point or for a distance shown on the Contract Drawings. After pipe lines have been tested, inspected and approved by the Owner, and the legal authorities, forms shall be removed and the excavation shall be cleared of truck and debris, and backfilled. Material for backfilling shall consist of the excavation, or borrow of sand, gravel or other materials approved by the Owner, and shall be free of truck lumber or other debris. Backfill shall be placed in horizontal layers not exceeding 9 inches in thickness and properly moistened. Each layer shall be compacted in accordance with the method specified in another section of these specifications. Backfill shall be brought to a suitable elevation above grade to provide for anticipated settlement and shrinkage.

7.3 Drainage and Vent Piping

7.3.1 Horizontal soil and waste piping shall be given a minimum grade of 1/8 inch per foot, except as plainly indicated on the Contract Drawings.

7.3.2 All main vertical soil and waste stacks shall be extended full size to the roof lines and above, except where otherwise specifically indicated. Where permissible and practicable, two or more vent pipes shall be connected and extended as one pipe through the roof.

7.3.3 The connection point of a circuit vent pipe from any fixture, or line of fixtures, to a vent line serving other fixtures shall be at least four feet above the floor on which the fixtures are located, to prevent the use of any vent line as a waste.

7.3.4 A cleanout shall be installed at the foot of each soil and waste line, at changes in direction in lines, and where indicated on the Contract Drawings and specified herein.

7.4 Protection to Fixtures, Materials and Equipment

Pipe openings shall be closed with caps or plugs during installation. Fixtures and equipment shall be tightly covered and protected against dirt, water and chemical or mechanical injury. Upon completion of all work, the fixtures, materials and equipment shall be cleaned thoroughly and delivered in a satisfactory condition to the Owner.

7.5 Joints

7.5.1 Bell and Spigot Joints

.1 Bell and spigot joints for sanitary piping, or between sanitary piping and threaded piping or caulking ferrules, shall be firmly packed with braided or twisted hemp or oakum gaskets of the best commercial grade and shall allow for not less than one inch depth of lead. Each bell joint shall contain not less than 12 oz. of fine soft pig lead for each inch of diameter of the pipe. Gask shall not project into the base of the finished joint. After the

gaskets are placed, the joints shall be cleaned and the remaining space filled at one pouring with lead which shall be caulked in a manner to insure a tight joint without overstraining the iron of the bells. After the caulking, the lead shall be practically flush with the face of the bells. The lead shall contain not less than 99.7 percent pure lead.

.2 Joints in the cast iron pipe for drain systems shall have pure asbestos rope packing filled to one-half the bell and be leaded as specified hereinbefore for sanitary piping.

.3 Bell and spigot pipe under pressure shall be laid with the bell pointing in the direction of flow; other pipe shall be laid with bell pointing up-grade. Pipe shall be graded carefully and shall be supported firmly and uniformly at its proper elevation and grade. Adjacent lengths of pipe shall be adjusted with reference to each other; blocking or wedging between hub and spigot will not be permitted. Spigots shall be adjusted in the bells so as to give a uniform space all around and, if any pipe does not allow sufficient space for proper caulking, it shall be replaced by one of the proper dimensions. Open ends of pipe at the end of each day's work shall be closed by a watertight plug.

7.5.2 Screw and Solder Joints

.1 Threaded joints shall be tapered standard pipe threads conforming to USAS B1.1. Screw joints shall be made with a suitable lubricant, such as graphite and oil compound, applied on the male threads only. Threads shall be full cut and not more than three threads on the pipe shall remain exposed. Threaded pipe and tubing shall be cut accurately and shall be worked into place without springing or forcing. Where outlets for fixtures are indicated or specified for fixture equipment, the lines shall be extended not less than 6 inches above the floor and capped or plugged. Proper provision shall be made for the expansion and contraction of all pipes and tubing lines. Pipe and fittings shall be free from fins and burrs. Copper tubing shall be cut with square ends. All burrs and fins shall be removed. Tubing shall be handled and protected carefully and all tubing that is cut, dented, or otherwise damaged shall be replaced with new tubing. End of tubing and fittings shall be cleaned and inserted in the fittings to their full depth. Stems and washers of solder-joint type valves shall be removed before soldering. All changes in sizes of tubing and pipe shall be made with reducing fittings or recessed reducers.

.2 Unions shall be provided at all equipment connections, control valves and specialties such as meters, filters, separators, etc., or where required for ready disconnecting of the piping system, whether or not indicated on the Contract Drawings. On ferrous pipe, 2½ inches in size and smaller, unions shall be 150 lb. WSP, zinc-coated malleable iron, ground-joint type; on

DIVISION 15

SECTION 15I

HEATING, VENTILATION AND AIR CONDITIONING

1.0 SCOPE

This section covers the heating, ventilating and air conditioning systems, complete.

2.0 APPLICABLE SPECIFICATIONS

2.1 New York City Building Laws and Administrative Code, Port of New York Authority Rules and Regulations

2.2 Air Moving and Conditioning Association, Inc. Bulletins

No. 20 Standard Test Code for Steam Unit Heaters

No. 210 Test Code for Air Moving Devices

2.3 National Fire Protection Association (NFPA)

No. 89M Clearances for Heat Producing Appliances
No. 90A Air Conditioning and Ventilating Systems
No. 90B Residence Type Warm Air Heating and Air Conditioning Systems
No. 91 Blower and Exhaust Systems for Dust, Stock, and Vapor Removal or Conveying

2.4 Air Conditioning and Refrigerating Machinery Association, Inc. Publication

Equipment Standards

2.5 American Society of Refrigerating Engineers' Standards

No. 15 Safety Code for Mechanical Refrigerator

2.6 United States of America Standards Institute (USASI)

B.19 Safety Code for Compressed Air Machinery and Equipment
B.31.1.0 Code for Pressure Piping - Power Piping

2.7 American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)

Heating, Ventilating and Air Conditioning Guide

5.4 Ceiling Outlets, Registers and Grilles

5.4.1 Ceiling Outlets

Ceiling air diffusers shall be provided where shown on the drawings. The outlets shall be designed to operate without noticeable drafts or noise and to distribute the air uniformly over the horizontal cross-sectional area served. They shall be sized in accordance with the data on the drawings and with the manufacturers' certified tests and recommendations. Each diffuser shall be furnished complete with equalizing grids, volume controllers, anti-smudge rings, and necessary baffles. Anti-smudge rings need not be furnished where outlets are mounted on exposed ductwork. The ceiling diffusers shall be fully adjustable after installation through all air patterns from horizontal to vertical, without the use of any special equipment or tools. All exposed diffusers shall have a baked metalescent aluminum finish. Registers, grilles and diffusers shall be the standard product of Tuttle and Bailey or General Air Products Co. or approved equal.

5.4.2 Wall Type Air Supply Registers

Supply air registers shall be furnished and installed where indicated on the Contract Drawings and shall be of the type with horizontal and vertical adjustable vanes for obtaining the desired air distribution. Each supply register shall be of the size indicated on the Contract Drawings and shall be equipped with an opposed blade volume controller, regulated by a removable key operator. Each register shall be given a rust-inhibiting primer and a finish coat of lacquer. Register shall be Tuttle and Bailey T647 or T557 or approved equal.

5.5 Insulation of Ductwork

5.5.1 All heating and air conditioning ductwork, except in Test Cell, and all fresh air ductwork for ventilating and air conditioning systems shall be insulated with not less than 1 inch thickness of flexible fiberglass with aluminum foil vapor barrier, or other equally suitable material as approved by the Owner. Minimum density of exposed insulation shall be 6 pounds per cubic foot. The insulating material shall be held in place by welded pins and speed washers, spaced on not greater than 12 inch centers or by means of galvanized steel wire and corner angles. If wires are used to hold the insulation in place, the corners of the insulation shall be adequately protected against injury.

5.5.2 Ductwork in concealed spaces shall have an integral factory applied fire resistant vapor barrier of aluminum base facing equal in flame resistance to the insulator. During erection, a vapor barrier of not less than 4" wide vapor-barrier tape shall be used to seal all joints. All joints and breaks in facings shall be sealed with vapor-barrier tapes or mastic glass fiber tape set in mastic, centered over the tape.

5.5.3 All outdoor insulated ductwork shall be weather-proofed as described in section, 15L THERMAL INSULATION for piping.

5.5.4 Aluminum jacketing finish shall be placed over insulation in exposed areas in the same manner as specified for piping in section, 15L THERMAL INSULATION in this Division.

5.6 Filters

5.6.1 Air filters shall be supplied and installed in the Test Cell ventilation supply system, and the Preparation Area fresh air supply as shown on the Contract Drawings. These filters shall be of the permanent washable type and shall be easily removable for servicing.

5.6.2 Filter media shall consist of strips of tapered, crimped screen wire.

5.6.3 Maximum face velocity across the Equipment Room fresh air supply shall be 300 fpm. Maximum face velocity across the filters in the Test Cell ventilation supply system shall be 410 fpm. Maximum face velocity across the Preparation Area ventilation system filters shall be 360 fpm.

5.6.4 Filters shall be American Air Filter type HV filter or approved equal.

5.7 Acoustic Treatment

5.7.1 Acoustic treatment shall be provided in Control Room air conditioning, the Preparation Area ventilation, the toilet exhaust duct, and the Test Cell ventilating system supply and return ducts as shown on the Contract Drawings.

5.7.2 The outer casings of the rectangular silencers for the air conditioning system and the toilet exhaust duct, shall be made of galvanized steel, with minimum thicknesses as recommended by the ASHRAE GUIDE, for the particular duct size. Seams shall be lock formed and mastic filled. Interior partitions shall be made of 24 gauge galvanized steel.

5.7.3 The outer casings of the tubular silencers in the Test Cell supply and exhaust ducts shall be fabricated of 1/4 inch steel plate or pipe. All seams shall be welded. Interior construction shall be compatible with the outside casings. The silencer ends shall be prepared for welding into the ductwork. The sheet steel shall be given a rust inhibiting treatment in accordance with Section 9A of these specifications after fabrication.

5.7.4 Acoustic filler material shall be an inorganic mineral or glass fiber material of a density sufficient to obtain the specified acoustic performance and packed under not less than 5% compression to eliminate voids due to vibration and settling. Material shall be inert, vermin and moisture proof.

5.7.5 Combustion rating for the acoustic fill shall be not less than the following, when tested in accordance with ASTM E84, NFPA Standard 255, or UL No. 723.

Flame spread classification - 20

Smoke development rating - 20

Fuel contributed - 15-30

5.7.6 Airtight construction shall be used throughout. Silencers shall be leakproof when subjected to a differential air pressure of 8" of H_2O inside to outside the casing.

5.7.7 Acoustic and Aerodynamic Performance

.1 Acoustic rating of silencer shall include Dynamic Insertion Loss and Self-Noise Power Levels.

.2 The Test Cell supply and exhaust duct silencers shall be capable of the following Dynamic Insertion Loss (DIL) sound attenuation with no air flowing.

Octave Bands, cps DIL, db	1	2	3	4	5	6	7	8
10 foot section	16	20	29	40	50	52	48	37
12 foot section	20	24	37	50	54	55	52	42
Combined Total	36	44	66	90	104	107	100	79

Maximum static pressure drop shall be 1.0" H_2O per section of silencer.

DIVISION 15

SECTION 15 L

THERMAL INSULATION

1.0 SCOPE

This section covers thermal insulation for piping systems and equipment, complete. Thermal insulation for ductwork is covered in Section 15I, "Heating, Ventilation and Air Conditioning".

2.0 APPLICABLE CODES AND SPECIFICATIONS

The applicable sections of the New York City Building Laws and the following specifications and standards shall apply to the extent referred to herein. The issue in effect on the date of Invitation to Bid shall apply.

2.1 American Society for Testing Materials (ASTM):

C193	Magnesia Thermal Insulating Cement
C194-	Asbestos Thermal Insulating and Finishing Cement
C195	Mineral Fiber Thermal Insulating Cement
C262	Mineral Fiber Batt Insulation (Industrial Type)
C263	Mineral Fiber Blanket Insulation (Metal Mesh Covered) (Industrial Type)
C280	Mineral Fiber Blanket - Type Pipe Insulation
C533	Spec. for Calcium Silicate Block and Pipe Thermal Insulation
C489	85 percent Magnesia Block and Pipe Thermal Insulation
C547	Mineral Fiber Preformed Pipe Insulation
C552	Cellular Glass Block and Pipe Thermal Insulation
C553	Mineral Fiber Blanket and Felt Insulation (Industrial Type)

3.0 INSULATION SCHEDULES

The piping and equipment shall be insulated in accordance with the class as specified below, in sections 15G, 15H and 15I and in other sections of this specification.

3.1 Class A (Anti Sweat)

Glass fiber molded dual temperature insulation with a factory applied vapor barrier jacket having the following minimum physical properties:

.1 Density - approximately 3-1/2 lbs/cu.ft.

.2 Thermal Conductivity - 0.22 BTU/in/hr/sq.ft./°F at 50°F mean temperature

0.31 BTU/in/hr/sq.ft./°F at 125°F mean temperature

The vapor barrier jacket shall be of a fire-resistant type and shall consist of a white bleached 35 lb. Kraft paper bonded to aluminum foil with a fire-resistant adhesive and reinforced with glass fibers. In all other respects fibre glass insulation shall conform to ASTM C-552.

Class A insulation shall be Owens Corning Fiberglass - BEH Mono-Cover, Eagle Picher - Alum-A-Felt, and Johns-Manville - Micro Lock.

3.2 Class C (151 - 300°F)

Nominal Pipe Size inches	Insulation Thickness inches
under 2	1
2	1
2-1/2	1
3	1
4	1
6	1
8	1-1/2
10	1-1/2
12	1-1/2
over 12	1-1/2

Insulation shall be 85% magnesia or anhydrous calcium silicate having the following minimum physical properties:

	85% Magnesia	Anhydrous Calcium Silicat
.1 Density	10 to 12 lbs/cu.ft.	10 to 13 lbs./ cu.ft.

	85% Magnesia	Anhydrous Calcium Silicate
.2 Thermal Conductivity	0.35 BTU/in/hr/ sq.ft./°F at 100°F mean temperature	0.39 BTU/in/hr/ sq.ft./°F. at 200 mean temperature 0.52 BTU/in/hr/ sq.ft./°F at 400 mean temperature

4.0 CLEANING

The insulation shall be applied only after the pipe line has been hydrostatically tested. Before any insulating material is applied all surfaces shall be thoroughly cleaned of all foreign material such as scale, dirt, grease, or rust by wire brushing, scraping, or, if necessary, sandblasting.

5.0 THICKNESS

The thickness of insulation, whether in molded blanket or cement form, shall be equal to, or greater than the thicknesses listed for the class in paragraph 3.0. The thicknesses shown are nominal. For 85% Magnesia, the simplified thickness standard of the Magnesia Insulation Manufacturers Association shall apply.

6.0 INSTALLATION

6.1 Premolded sectional forms in two halves to fit the pipe shall be used for all pipe sizes for which sections are available. All sections shall be carefully fitted with side and end joints butted tightly.

6.2 Insulation shall be securely wired in place. No. 16 gauge annealed galvanized steel wire shall be used for pipe sizes 10" and smaller. No. 14 gauge annealed galvanized steel wire shall be used for pipe sizes larger than 10". At least 4 wires to each 3 foot length shall be used. The ends of all wire loop shall be firmly twisted together with pliers, bent over, carefully embedded into and flush with the surface of the covering. All wires shall be completely covered with insulating cement before applying the finish.

6.3 All joints shall be pointed up with first quality long fiber asbestos or mineral wool cement.

6.4 Vapor barrier material shall be white vapor barrier lap cement.

6.5 Sealing tape shall be a waterproof fabric tape, Johns-Manville Brine and Ammonia Sealing Tape or an approved equal.

7.0 INSULATION OF BENDS

Insulation applied to piping bends shall be mitered into lengths that fit neatly and securely together, sealed and smoothed over with cement as specified for straight piping, and securely wired at intervals of at least 15 degrees of arc with No. 16 gauge annealed iron wire. Joints shall be carefully and completely sealed with cement and tapered.

8.0 INSULATION OF VALVES, FITTINGS AND FLANGES

Valves, fittings, and flanges shall be insulated with sectional pipe insulation and/or blocks of the same material and total thickness as the covering on the adjacent pipe, except where otherwise specified. The sections or blocks may be fabricated into special shapes before application. The insulation shall be securely wired in place with No. 16 gauge annealed galvanized steel wire and covered with one inch hexagonal wire mesh stretched tightly over the surface. Mesh wire shall be 20 gauge annealed galvanized steel wire.

9.0 CEMENT INSULATION

For valves and fittings 2-1/2 inch nominal size and smaller, an all-cement insulation may be substituted for the sections or blocks. The insulation shall be carried up to the valve stuffing box. The cement shall be applied in two or more layers according to the total thickness required. Each layer shall be approximately 1/2 inch thick and shall be dry before the next layer is applied. The final layer of 1/2 inch hard finish asbestos cement shall be applied over the insulation to give an overall thickness equal to that of the adjacent covering.

For valves and fittings 3" nominal size and larger, the insulation shall be finished with a coating of hard finish 1/2 inch thick asbestos base cement. The surface shall be troweled smooth. Valve bonnets shall be insulated up to the stuffing boxes.

Premolded fitting insulation, equivalent to that specified above, will be acceptable.

10.0 FUEL FILTER SEPARATOR

The fuel filter water separator (located in the Fuel cubi

will be furnished with a sump heater with a capacity of 750 W, 110 volt and a drain line heater with a capacity of 200 W 110 volt. The sump of the filter separator shall be covered with insulation consisting of 4 inches of calcium silicate, covered with a troweled layer of cement and finished for outdoor services as described in paragraph 13.0 of this section. The drain line shall be insulated with Class "C" insulation as specified herein and finished for an outdoor installation.

11.0 GLYCOL HEAT EXCHANGER, PUMP AND EXPANSION TANK

The shell of the glycol heat exchanger, the expansion tank and the circulating pump of the snow melting system shall be insulated with Class "C" insulation as specified herein.

12.0 FINISH

12.1 All insulated pipe and equipment located indoors shall be finished with an aluminum metallic jacket. This jacket shall be applied over straight portions of the pipe, long diameter bends and all sections of piping and equipment in which a length of metallic jacket can be placed. Other sections, such as short bends, fittings, and equipment irregular surfaces shall be finished with 8 ounce canvas jackets pasted or cemented over the smoothing coat of asbestos cement and with 1/2" X 0.015 inch thick corrosion resistant bands and clips spaced on 6 inch maximum centers. The canvas shall be painted with aluminum paint to match the aluminum metallic jacket. The aluminum jacketing shall be smooth aluminum alloy No. 3003 or No. 3005 having a thickness of 0.016 inches with self-locking longitudinal seam joints and end joint butt straps. Aluminum jacketing shall have a vapor proof barrier bonded to the inside of the aluminum to protect the aluminum against chemical reaction with the insulation. Factory applied aluminum jacketing on the insulation is acceptable provided that it fully meets the requirements of this specification.

12.2 Bands for securing aluminum jacketing shall be either aluminum or stainless steel of 1/2 inch width and 0.020 inch thickness, or 3/4 inch width and 0.015 inch thickness.

12.3 Glass fabric shall be 10 X 10 white open weave cloth.

13.0 OUTDOOR LINES

13.1 Steam supply and condensate return piping exposed to the weather shall be insulated with anhydrous calcium silicate type insulation in accordance with the previous paragraphs of this specification except that they shall receive a finish consisting of one layer of asphalt saturated and coated asbestos felt. The jacket shall be secured by loops of 1/2 X .05" corrosion resistant metal bands and clips on 6" maximum centers

with one loop on each lap. Laps of not less than one inch shall be provided on all edges. Side lap on vertical piping shall be sealed with asphalt cement. All horizontal joints in felt jackets shall be lapped downward so as to shed water. Outside of the weather-proofing, an aluminum jacket with moisture barrier shall be provided. This jacketing shall be as specified in section 12.0. An asphalt saturated roofing, to which aluminum foil is bonded may be used in place of the felt and separate jacket. Corrosion resistant straps shall be applied as above.

For uneven pipe and equipment surfaces, such as short bends, fittings, valves, etc., a plastic weatherproof finish consisting of asbestos fiber and asphalt compound shall be used. For large equipment to be finished with plastic weatherproofing, the insulation shall be given a base coat of asbestos and Portland cement and light gauge galvanized 1" wire mesh shall be applied over the cement and drawn taut, with all edges tied and wired in place. The weatherproofing plastic shall then be applied to a finished thickness of 1/4" to a smooth even surface.

13.2 Water piping, exposed to the weather or located outdoors less than 3 feet below the ground level, shall be traced electrically, lagged with four (4) layers of 1" thick each built-up hair-felt sectional covering securely bound in place with heavy jute twine and finished with weatherproof jacket sealed at all joints as specified above for steam and condensate.

Electric heating shall be provided as follows wherever required:

For 1/2" pipe - 8 watts/ft. of pipe length.

For 3/4" pipe - 9.5 watts/ft. of pipe length.

For 1" pipe - 11.2 watts/ft. of pipe length.

For 1-1/4" pipe - 14 watts/ft. of pipe length.

For 1-1/2" pipe - 16 watts/ft. of pipe length.

For 2" pipe - 19.5 watts/ft. of pipe length.

For 2-1/2" pipe - 23 watts/ft. of pipe length.

15.0 UNDERGROUND LINES

All underground piping requiring thermal insulation shall be placed in a separate trench and properly supported. The

DIVISION 16

ELECTRICAL WORK

1.0 SCOPE

Under this Division of the specifications the Contractor shall provide a complete electrical installation fully tested and functioning properly in accordance with the Contract Drawings and as specified herein.

The Contractor shall furnish, install and connect all electrical equipment as shown on the Contract Drawings and as specified herein.

The Contractor shall install and connect all electrical equipment furnished by others and as specified under other Divisions of these specifications and shown on the Contract Drawings.

The Contractor shall connect all electrical equipment furnished and installed by others as specified under other Divisions of these specifications and as shown on the Contract Drawings.

After award of Contract the owner will issue to the Contractor connection and/or schematic wiring diagrams of the equipment furnished by the Owner or the manufacturer. The Contractor shall connect up the equipment in accordance with these drawings. The Contract Drawings indicate the size, type and number of cables required. This work shall be included in the bid price.

He shall furnish all labor, supplies, materials, including lamps and fuses, erection equipment and tools, and shall perform all operations including cutting, channeling, chasing, rigging, setting, aligning, patching and grouting necessary for the installation of a complete interior and exterior electrical facility.

The Contractor shall test all electrical equipment connected by him and as specified herein.

All of the above work shall be in strict accordance with this Division of the specifications and the applicable drawings, and subject to the terms and conditions of the Contract.

Electrical equipment specified in other Divisions of these specifications shall conform to this Division of the specifications.

inch and 3/4 inch sizes and 150 feet in length for 1-inch or larger sizes, and shall not contain more than three 90-degree bends or the equivalent. Additional pull or junction boxes shall be installed to comply with these limitations whether or not indicated on the drawings. Inside radii of bends in conduits of 1-inch size or larger shall be not less than ten times the grade diameter. A zinc-coated steel wire not less than 14 guage shall be installed in all 1/2 inch and 3/4 inch branch telephone raceways with not less than 8 inches of slack left at each outlet.

For other requirements of fire alarm system, see section entitled Fire Alarm System.

4.5 Underground Duct Banks:

The Contractor shall furnish and install the conduit and underground duct banks including the manholes and hand-holes in accordance with the Contract Drawings and as specified herein. This work shall include all required excavating, grading, filling, backfilling, reinforcing, concrete forms, etc..

The duct system shall consist of single, round-bore conduit, either asbestos cement or precast concrete encased in concrete. At termination of concrete duct at a building or equipment the conduit shall be full weight, threaded hot dipped galvanized steel encased in concrete and coupled to the asbestos cement conduit by coupling adapters.

The concrete encasement shall not be less than 3 inches thick on all sides top and bottom and not less than two inch between the different ducts in the run.

Asbestos cement conduit shall be in accordance with Federal Specification W-C-571 Type I unless otherwise specified.

The number and size of ducts shall be as indicated on the drawings. Duct lines shall be laid to a minimum grade of four inches per 100 feet and shall slope so as to drain into the manholes, pits etc. Changes in direction of runs exceeding 10 degrees shall be accomplished by using special coupling or bends manufactured for this purpose. Duct lines shall be installed so that the top concrete is not less than 2-1/2 feet below finished grade or finished paving at any point.

Trenching and backfilling shall conform to the Divisions of these specifications covering clearing, excavating, filling and grading.

Where duct lines enter manholes, the conduits shall terminate in end bells. Where it is necessary to cut a tapered end on a piece of conduit at the site, the cut shall be made with a tool or lathe designed to cut a taper to match the taper

of the particular conduit to be used.

After the duct line has been completed, a mandrel not less than 12 inches long, having a cross-section approximately one-fourth inch less than the inside cross-section of the conduit shall be pulled through each conduit, after which a brush with stiff bristles shall be pulled through each conduit to make certain that no particles of earth, sand, or gravel have been left in the line.

Where connection is made to duct which is of different material and shape than the duct being installed, a suitable coupling of a type recommended by the duct manufacturer shall be used.

Each single asbestos cement conduit shall be completely encased in concrete. Spacing blocks, where required, shall be made of concrete or other suitable nonmetallic, nondecaying material. Joints of cement asbestos conduit or concrete conduit shall be staggered at least 6 inches. The tapered ends shall be swabbed with a bituminous compound before coupling is applied, to insure a watertight joint. Ducts encased in concrete shall be securely anchored to prevent movement during the placement of concrete.

Concrete shall be plain except where reinforced concrete is specified herein or indicated on the drawings. Plain and reinforced concrete shall conform to the Division of these Specifications covering concrete and cement work. Duct lines shall be of monolithic construction. Where a connection is made to an existing line, manhole, or handhole the concrete encasement shall be well bonded to the existing line, manhole or handhole.

When an underground duct system is to be continued above ground, galvanized steel elbows shall be installed with at least a three inch concrete envelope, the envelope terminating at least four inches above grade. An adapter from duct to steel conduit shall be provided for each duct, and shall be as manufactured by the duct manufacturer. Conduit installed directly in the earth outside the building shall be heavily coated with tar or pitch as approved by the Owner. Conduit end bells shall be used on each conduit termination at manholes, pull boxes and equipment. Cement asbestos conduit adapters or reducing adapters shall be installed approximately six inches above finished grade level to connect to metal conduits and enclosed within protecting concrete pedestals forming a part of the duct enclosure.

Where one duct bank crosses another duct bank, a six inch sand cushion shall be installed between them.

In general, conduits entering the building from underground shall be sealed as above after installation of cable. Empty conduits shall be sealed or effectively plugged so as to be water-tight.

All spare conduits shall be plugged with wooded plugs. Conduits carrying cables into manholes shall be sealed with Johns-Manville Duxseal, except where rubber or rubber type sheathed cables are used. Minnesota Mining and Manufacturing Company duct sealing compound or compound as recommended by the cable manufacturer shall be used on rubber or rubber-like sheathed cable.

The Contractor shall notify the Owner when excavations are ready for installation of ductbanks, and no work shall be performed until the condition of the excavation is approved. After the ducts are installed, the Contractor shall obtain the Owner's approval before concrete is poured. Backfilling shall not be performed until the Owner has inspected the duct bank with concrete envelope.

Cable buried directly in the earth shall be unreeled in place along the side of the trench. Pulling of cable in the trench will not be permitted. The trench shall be clean, even and smooth, free of stones or sharp objects. Before placing the cable in the trench, a 6 inch layer of smooth, dry, clean sand shall be placed in the bottom of the trench. Another 6 inch layer of sand shall be placed above the cable after it is laid in the trench. A nominal 2 inch thick pentachlorophenol treated board not less than 8 inches wide shall be placed above this sand layer 6 inches above the cable and the trench backfilled. Trenching and backfilling are to be as described in the section on "Excavation, Filling and Backfilling."

4.6 Manholes

The Contractor shall furnish and install all manholes in accordance with the Contract Drawings. All manholes shall be located and constructed in accordance with the Contract Drawings and specifications. Relocation of manholes and duct banks before installation shall be done only on the condition of interference with other utilities, and then only if approved by the Owner.

Concrete, forms, mixing, pouring, finishing and manholes shall conform so the Standards of the Port of New York Authority Reinforcing steel shall conform to the Division of these specifications covering concrete.

Covers and frames shall be made of grey cast iron, conforming to ASTM Specification A-48, Class 30. A machine-finished seat shall be provided to insure a perfect joint between the frame and cover. In paved areas, the top of

6.3 Installation of Wire and Cable

The Contractor shall furnish all of the material and labor to install the wire and cable as indicated on the Contract Drawings or as specified herein.

The Contractor shall furnish all materials for terminating cables and wires such as connectors, insulation, fireproofing and copper tapes, solder, clamps, braces, supports, hardware, bushings, pulling compounds, identification tags, terminal blocks, ground straps, ground copper, serving material, etc. and other material which may be required for the complete installation of cable and wire in accordance with the best modern practice.

The Contractor shall furnish, install and connect two 5 KV power feeder cables from existing manholes of the Port of New York Authority through existing and new underground duct and manholes to supply power to the Test Cell Facility as shown on the contract drawings and as specified herein.

One feeder V 10A shall be extended from its existing manhole ESW-7A through existing manholes ESW-8A,9A and 10A through the new manholes and underground duct furnished and installed by the contractor to the new 5 KV fused disconnect switchgear furnished and installed on the electrical equipment balcony.

The second feeder VC6A shall be extended from the existing manhole ESW-10A through the new underground ducts and manholes as an alternate feeder to the new 5 KV fused disconnect switchgear on the electrical equipment balcony.

The 5 KV feeders shall consist of 3-350 MCM conductors quadroplexed with a #2/0 AWG neutral cable. The 5 KV neutral, the 480 volt transformer neutral and the 5 KV switchgear ground bus shall be connected together by means of the ground conductor located beneath the electrical equipment balcony.

The following general procedure shall be followed in the installation of all power and control wires and cables:

6.3.1. Cables shall be arranged in cableways and pull-boxes in a neat and orderly fashion. Single-conductor and multi-conductor cables shall be supported by suitable damps or grips when unsupported lengths exceed approximately 30 inches.

6.3.2 Control cables entering control boards and panels shall be securely fanned out in a neat arrangement and tied into position to enter terminal lugs attached to terminal blocks. Cables shall not be lashed against metallic support unless a micarta liner is used.

6.3.3 All cables shall be fire protected where exposed in manholes underground by insertion within woven asbestos tubing, 1/16 inch thick, Johns-Manville Style Nos. 1530-1532 or approved equal or wrapped with 1/16 inch thick, cloth-reinforced asbestos type half lapped, with ends inserted about 2 inches within conduits or ducts and securely fastened with bronze wire wrapping. All cables from the same conduit or duct may be enclosed within the same fireproofing tube.

6.3.4 The Contractor shall follow the instructions of the cable manufacturers in making all splices, terminations, etc., and all splicing materials shall be as recommended by the cable manufacturer.

6.3.5 Terminal lugs at terminations and equipment shall be of the clamp solderless type, O-Z type L, LH, Burndy type VA, or approved equal for power circuits. All stranded control cables shall be provided by the Contractor with terminals, Burndy "Hylug" or approved equal, of proper size to fit terminal blocks.

6.3.6 All control cables shall be marked at both ends with an identification tag clearly stamped or engraved. Such tags shall be attached as close as possible to the terminal block to which its conductors are connected but before any conductors are peeled off for training to terminal points.

6.3.7 Control wiring terminal blocks where required in boxes and control equipment shall be of the molded base type with separate lugs for incoming and outgoing cables, with barriers between terminals, terminal marking strips and covers, Westinghouse switchboard type TBA or equal.

6.3.8 All power and control cables installed by the Contractor shall be in a continuous length; splices shall be kept to a minimum and all splices shall be accessible. Splices shall be made in accordance with cable manufacturer's requirements. To facilitate pulling cables in conduit, lubrication as recommended by the cable manufacturer shall be used. Under no circumstances shall soap or oil of any kind be used on rubber insulated cables.

6.3.9 Pulling of cables into conduits or other raceways shall be done with care to prevent damaging the cables. The reels shall be set up as close as practicable to the raceway entrance, and the cable shall be trained as directly as possible with a minimum amount of bending. A protector shall be provided at each end of the raceway to protect the cable jacket. Where several cables are to occupy one conduit, they shall be pulled together.

U. S. MINERAL PRODUCTS CO./COLU[illegible] FOR ACOUSTICS AND FIREPROOFING CO.

STATE: New York

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Bruderle & Lamparter 4 Burns St. Hicksville, N.Y	S & M Caterers Northern Blvd. & Lakeville Rd. Great Neck, NY	3-22-63	Cafco Sound Shield	07972	NY 1
Same as above	same as above	3-8-63	Cafco Sound Shield Cafco Blaze Shield Cafco Latex Adhesive Parching Fiber	07936	NY 2
Same as above Hicksville, Long Island, NY	~~same as above~~ S & N Caterers Northern Blvd & Lakeville Rd. Great Neck, Long Island, NY	5-3-62	Cafco Blaze Shield Cafco Sound Shield Cafco,, Adhesive Cafco Grader	07324	NY3
Same as above	Same as above	6-15-62	Cafco Blaze Shield Cafco Sound Shield Cafco Adhesive Cafco Grader	07442	NY4
Long Island Lighting Co. 250 Old Country Road Mineola, Long Island, NY	Long Island Lighting Co. Electric Power Station Port Jefferson, NY Attn: A. Galloway	5-13-68	Cafco Power Shield	07573	NY5

U. S. MINERAL PRODUCTS CO./COLU... SALES RECORDS FOR ACOUSTICS AND FIREPROOFING CO.

STATE: New York

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Cuddihy, Huebner and Lamparter, Inc. 295 Merritt Ave. Wyandanch, Long Island, NY	Library Building Suffolk Community College Selden, Long Island, NY	2-26-68	Cafco Heat Shield Cafco Solvent Adhesive	06296	NY 6
Cuddihy and Huebner 250 West Main St. Bayshore, LI, NY	St. Francis Rectory Wantaugh Avenue Wantaugh, LI, NY South Side Southern State Parkway	5-23-67	Heat Shield Latex Adhesive	11255	NY7
Hudson Plastering Co. 200 Sheridan Ave. Buffalo, NY	Police Headquarters Garage Church and Franklin St. Buffalo, NY	11-9-66	Type D "	42301	NY 8
Same as above	Temple Beth Zion Delaware and Barker Ave. Buffalo, NY	7-21-65	Cafco Blaze Shield Type D	illegible	NY9
Same as above	same as above	7-26-65	Cafco Blaze Shield Type D	illegible	NY10

STATE: New York

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Hudson Plastering Co. 200 Sheridan Ave. Buffalo, NY	Main Place AT Pearl & Court St. Buffalo, NY	9-22-67 ~~02209~~	Cafco Blaze Shield Type D	02209	NY 11
Same as above	Student Union Building NY State University Elmwood Ave. Buffalo, NY	1-5-67	Type H Type D Adhesive Sealer	43564	NY 12
Same as above	Temple Beth Zion Delaware & Barker St. Buffalo, NY	7-6-66	Type D "	11754	NY 13
Henderson-Johnson Co. Inc. "918 Canal St. Syracuse, NY	c/o Wm. C. Pahl Const. Co. Onandaga Co. Savings Bank Office Bldg. Syracuse, NY	5-28-64	Cafco Heat Shield Cafco Adhesive	08012	NY 14
Same as above	1st Stop: c/o F.G. Foster Co. Parking Coburn School, Mt. Zoar St. Elmira, NY 2nd Stop: 918 Canal St. Syracuse, NY	7-28-60	1st Stop: Cafco Blaze Shield Cafco Sound Shield Cafco Adhesive & Cafco Sealer 2nd Stop: Cafco Heat Shield Cafco Blaze Shield Cafco Sound Shield Cafco Adhesive & Cafco Sealer	04570	NY 15

STATE: New Yo

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
William Isherwood Inc. Mr. William Isherwood 56 West 45th St. New York, NY	Mony Insurance Bldg. Harrison & Warren Sts. Syracuse, NY	1-11-66	Cafco Blaze Shield Type D	9802	NY16
Same as above	same as above	1-20-66	Cafco Blaze Shield Type D	9907	NY17
Same as above	same as above	3-08-66	Cafco Blaze Shield Type D "	10306	NY18
Same as above	same as above	2-21-66	Cafco Blaze Shield Type D 1 spraying Machine	10168	NY19
Same as above	Same as above	2-15-66	Cafco Blaze Shield Type D Pole Gun Assembly Stainless Steel Nozzle Plastic Hose	illegible	NY20

STATE: New Y

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Wm. Isherwood Inc. Mr. Wm. Isherwood 56 West 45th St. New York, NY	Mony Insurance Bldg. Syracuse, NY	12-10-65	Cafco Blaze Shield Type D	9608	NY 21
Henderson Johnson Co. 918 Canal St. Syracuse, NY	c/o Perfetto & Whalen Mercy Hos Health & Rehab CTR Auburn, NY	6-01-71	Cafco Blaze Shield Type D	10568	NY 22
Wm. Isherwood Inc. Mr. Wm. Isherwood 56 West 45th St. New York, NY	Mony Insurance Bldg. Harrison & Warren Sts. Syracuse, NY	1-25-66	Cafco Blaze Shield Type D "	9959	NY 23
Same as above	Same as above	12-13-65	Cafco Blaze Shield Type D	9609	NY 24
Henderson-Johnson Co. Inc. 918 Canal St. Syracuse, NY	c/o. W.C. Pahl Const. Co. Onondaga County Savings Bank Office Building Syracuse, NY	9-10-63	Cafco Blaze Shield Cafco Heat Shield	08292	NY 25

U. S. MINERAL PRODUCTS CO./COLUM ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Henderson-Johnson Co., Inc 918 Canal St. Syracuse, NY	Wm. C. Pahl Const. Co. Towers Apartments 770 James St. Syracuse, NY	9-19-62	Cafco Heat Shield Cafco Adhesive	07640	NY 26
Same as above	Perfetto & Whalen Mercy Hospital Health CTR, Auburn and Nursing Home Attn: Lloyd Martin	7-09-71	Cafco Blaze Shield Type D C/F Cafco Blaze Shield Type D	11385	NY 27
Same as above	c/o Pahl Const. Co. Warren St. Parking Garage 325 - 345 So. Warren St. Syracuse, NY	5-23-62	Cafco Heat Shield Cafco Adhesive Cafco Sealer	07398	NY 28
"Same as above	c/o Buffalo Acoustics 605 Indian Church Rd. Buffalo 24, NY	1-22-60	Cafco Sound Shield	03913	NY 29
Same as above	c/o Vincent J. Smith Community Hospital Broad Rd. & Seneca Tnpk. Syracuse, NY	6-21-62	Cafco Heat Shield Cafco Adhesive Cafco Sealer	07457	NY 30

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Henderson-Johnson Co., Inc. 918 Canal St. Syracuse, NY	1st Stop: c/o Turner Const. Co. 3-M Building 1900 Mt. Read Blvd., Rochester, NY Last Stop: c/o Collum Acoustical Co. Turner Const. Co. Mony Plaza Harrison & Warren St. Syracuse, NY	7-22-68	Cafco Blaze Shield Type D Cafco Heat Shield Cafco Bond-Seal	08593	NY31
Same as above	c/o Collum Acoustical Co., Inc Turner Const. Co. Mony Plaza Harrison & Warren St. Syracuse, NY	8-27-68	Cafco Heat Shield	09138	NY32
Same as above	1st Stop c/o Warehouse, 918 Canal St.; Syracuse, NY Last Stop c/o Collum Acoustical Co., Inc. Turner Const. Co. Mony Plaza Harrison & Warren St. Syracuse, NY	8-15-68	1st Stop Cafco Blaze Shield Type D Last Stop Cafco Heat Shield	09009	NY33
Same as above	c/o Cowper Const. Co. Sibley Project-Phase B South Salina St. Syracuse, NY	11-25-68	Cafco Heat Shield Cafco Bond Seal	10812	NY34
Same as above	Same as above	10-30-68	Cafco Heat Shield Cafco Mark II Coating Cafco Bond Seal	10299	NY35

U. S. MINERAL PRODUCTS CO./COLU[illegible] SALES R[illegible]DS FOR ACOUSTICS AND FIREPROOFING CO.

STATE: _____

8

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Fireproofing Contrs. 56 West 45th St. New York, NY (Note: must be Isherwood)	c/o Channin Building 39th St. and Broadway 1411 Broadway NY, NY	3-11-69	Cafco Blaze Shield Type D	12359	NY 36
Same as above	c/o New Office Bldg. 39th St. and Broadway NY, NY	9-24-68	Cafco Blaze Shield Type D	09613	NY 37
Same as above	Same as above	2-21-69	Blaze Shield Type D "	12032	NY 38
"Same as above	c/o Chanin Building 39th St. and Broadway 1411 Broadway NY, NY	3-5-69	Cafco Blaze Shield Type D Model "B" Nozzle	12273	NY 39
Same as above	c/o Passaic County Courthouse	5-14-68	Cafco Blaze Shield Type D	07597	NY 40

U. S. MINERAL PRODUCTS CO./COLUM ACOUSTICS AND FIREPROOFING CO.

STATE: _____

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Richter Acoustical & Fireproofing Co. 641 Center Avenue Mamaroneck, NY	c/o Pelham Parkway & Stillwell Avenue Bronx, NY	7-10-59	Cafco Sound Shield Cafco Adhesive	03161	NY 41
Same as above	c/o Three Eighty Garage 19 East 46th St. (Between Madison & 5th) NY, NY	8-13-58	Cafco Spray Standard Cafco Spray Type 1 Cafco Adhesive Cafco Equipment Rental	01864	NY 42
Same as above	207th Street New York City, NY	4-6-60	Cafco Sound Shield Cafco Adhesive	04210	NY 43
Same as above	Richter Acoust. & FP Co. Corner Boston Post Rd. and East Chester Rd. Bronx, NY	10-17-58	Cafco Spray, Type 1 Cafco Adhesive	03480	NY 44
Same as above	c/o Receiveway Restaurant & corner of Boston Post Rd & E. Chester Rd. Bronx, NY	8-7-59	Cafco Sound Shield Cafco Adhesive	03272	NY 45

SALES RE[illegible]DS FOR

U. S. MINERAL PRODUCTS CO./COLUM[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
L.D. Reeder Co. of San Diego 2900 Rowena Ave. Los Angeles, Calif.	280 Park Avenue New York City, NY	7-18-62	Cafco Heat Shield Cafco Blaze Shield	07504	NY 46
Same as above	c/o Diesel Const. Co. Bankers Trust Co. Bldg. 280 Park Ave. NY, NY	7-23-62	Cafco Heat Shield Cafco Blaze Shield *This corrects invoice 07504	07515	NY 47
Same as above	280 Park Ave. NY, NY	8-15-62	Cafco Heat Shield Cafco Blaze Shield	07557	NY 48
Same as above	Bankers Trust Co. 280 Park Ave. NYCity, NY	8-31-62	Cafco Heat Shield Cafco Blaze Shield	07580	NY 49
Same as above	c/o Diesel Const. Co. Bankers Trust Co. Bldg. Park Ave. & 49th St. NY City, NY	1-29-62	Cafco Blaze Shield Cafco Heat Shield Cafco Adhesive	07130	NY 50

SALES RE[illegible]DS FOR

U. S. MINERAL PRODUCTS CO./COLI[illegible] / ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
L.D. Reeder Co. of San Diego 2900 Rowena Ave. Los Angeles 39, Calif.	c/o Diesel Const. Co. Bankers Trust Co. Bldg. 280 Park Ave (Park & 49th) NY, NY	4-5-62	Cafco Heat Shield	07264	NY 51
L.D. Reeder Co. of Portland 585 East Main St. East Orange, NJ	c/o Greyhound Terminal New York Port Authority Bus Terminal NY, NY	8-29-63	Cafco Sound Shield (one bag)	08288	NY 52
same as above	same as above (Port Authority Bus Depot)	8-5-63	Cafco Sound Shield (one bag) "	08232	NY 53
L.D. Reeder Co. of Portland 14 Woodland Ave. East Orange, NJ	330 Madison Ave. Project NY, NY	7-27-64	Cafco Blaze Shield, Patching Fiber	08936	NY 54
L.D. Reeder Co. of Portland 585 East Main St. East Orange, NJ	c/o 330 Madison Ave. NY, NY	9-12-63	Cafco Sound Shield	08290	NY 55

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
L.D. Reeder Co. of Portland 585 E. Main St. East Orange, NJ	c/o Mr. Tony Masella Alexander Stein Ind. National Maritime Union Bldg. 12th & 7th Ave. NY, NY	7-23-63	Cafco Blaze Shield	08209	NY 56
Same as above	c/o Rose Associates [redacted] 280 Park Ave. NY, NY Attn: M. Freeman	6-21-63	Cafco Blaze Shield	08168	NY 57
L.D. Reeder Portland 14 Woodland Ave. East Orange, NJ	c/o Rose Assoc., 27th Floor 280 Park Ave. NY, NY	6-5-64	Cafco Blaze Shield "	08824	NY 58
Same as above	Pickup for Bankers Trust Co. 280 Park Ave. NY City, NY Corrects invoice #7580	12-27-62	Cafco Heat Shield Cafco Blaze Shield	07843	NY 59
L.D. Reeder Co. of San Diego 2900 Rowena Ave. Los Angeles 39, Calif.	c/o Diesel Const. Co. Bankers Trust Co. Bldg. Park Ave & 49th St. NY, NY	12-29-61	Cafco Heat Shield Cafco Blaze Shield	06999	NY60

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
New York Artcrafts, Inc. 280 Madison Ave. NY City, NY	c/o 51-09 2nd St. Long Island City, NY (Borden Ave. & E. River near Midtown Tunnel)	9-13-61	Cafco Heat Shield Cafco Sound Shield	06645	NY 61
Neff Lathing Co. 274 Madison Ave. NY, NY	c/o. George A Fuller Union Carbide Bldg. Between Madison & Park Ave. on 48th St. Block, one block off Madison Ave. NY, NY	10-29-58	Cafco Spray Standard SprayDon	02112	NY 62
Same as above	same as above	10-24-58	Cafco Spray Standard SprayDon Cafco Sealer Cafco Adhesive	02062	NY 63
Same as above	same as above	10-21-58	Cafco Spray, Standard, SprayDon Cafco Adhesive.	02054	NY 64
Same as above	same as above	10-13-58	Cafco Spray, Standard, SprayDon Cafco Adhesive	02042	NY 65

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Neff Lathing Co. Inc. 274 Madison Ave. NY City, NY	C/o George A. Fuller Union Carbide Building Between Madison & Park Ave on 48th St. ½ block east of Madison Ave. NY, NY	10-16-58	Cafco Spray, Standard Spray Don Cafco Adhesive, Gross Cafco Sealer Gross	02038	NY 66
same as above	same as above	11-7-58	Cafco Spray Standard 50# Spray Don Cafco Sealer Cafco Adhesive Cafco Hopper	02140	NY67
same as above	same as above	11-7-58	Cafco Spray Standard 50# Spray Don Cafco Sealer Cafco Adhesive	02139	NY68
"same as above	same as above	11-5-58	Cafco Spray, Standard 50# Cafco Sealer Cafco Adhesive Fiber Gun	02119	NY69
same as above	same as above	11-21-58	Cafco Spray Standard 50# Spray Don Cafco Sealer	02165	NY70

STATE: N

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Neff Lathing Co., Inc. 274 Madison Ave. NY, NY	C/o GA Fuller Union Carbide Building Between Madison & Park Ave. on 48th St. 1 block off Madison Ave. NY, NY	11-18-58	Cafco Spray Standard 50# Spray Don Cafco Sealer 2 fiber Guns	02158	NY71
Same as above	Same as above	11-13-58	Cafco Spray Standard, 50# Spray Don Cafco Sealer	02152	NY72
Same as above	Same as above	12-2-58	Cafco Spray Standard Spray Don Cafco Sealer "	02217	NY73
Same as above	Same as above	12-2-58	Cafco Spray Standard Spray Don	02231	NY74
Same as above	Same as above	12-5-58	Cafco Spray Standard	02232	NY75

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Neff Lathing Co. 274 Madison Ave. NY City, NY	C/o George A. Fuller Union Carbide Bldg. 270 Park Ave. NY City, NY	9-29-58	Cafco Spray, Standard, 50# per bag Stencil SprayDon Cafco Sealer Paint Extension Dust Respirators Filters Hoses Gat Gun	01987	NY 76
same as above	same as above	9-18-58	Cafco Spray, Standard, 50# SprayDon Cafco Adhesive	01963	NY 77
same as above	same as above	1-16-59	Cafco Spray BLAZE-SHIELD + Compressor "	02378	NY 78
same as above	same as above	10-1-58	Cafco Spray Standard SprayDon Cafco Applicator Eqpt. Set Model H Adhesive Gun Tamping Board	01993	NY 79
same as above	C/o Columbia Pictures 711 Fifth Avenue NY City, NY	9-29-58	Cafco Spray Standard SprayDon	02000	NY 80

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Neff Lathing Co. 274 Madison Ave. NY City, NY	c/o Columbia Pictures 711 Fifth Ave. NY City, NY	9-29-58	Cafco Spray Standard Sprayon	01998	NY 81
Same as above	Same as above	9-12-58	Cafco Spray Standard Sprayon	01913	NY 82
Mario & DiBono Plastering Co. 370 Northern Blvd. Great Neck, L.I., NY	c/o New Office Building 825 3rd Avenue NY, NY	5-27-68	Cafco Blaze-Shield Type D "	07870	NY 83
Sprayed Fireproofing Contractors 56 West 45th St. NY, NY 10036	c/o New Office Building 39th St. & Broadway NY, NY	10-9-68	Cafco Blaze-Shield Type D	09924	NY 84
Same as above	c/o American Airlines Inc Kennedy Airport Turner Const. Co. Long Island, NY	10-28-69	Cafco Blaze-Shield Type D	16481	NY 85

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Fireproofing Contractors, Inc 249 East 36th St. NY, NY	c/o Malmed Realty Corp. 48-29 31st Pl. Queens, NY	12-9-63	Cafco Blaze-Shield Type D	08455	NY86
Sprayed Fireproofing Contractors, Inc. 56 West 45th St. NY, NY	c/o New Office Bldg. 39th St. & Broadway NY, NY	8-14-68	Cafco Blaze-Shield Type D Barbed Fittings Type B Gun Head Water Valves Vinyl Tubing	08961	NY87
Same as above	same as above	8-20-68	Cafco Blaze-Shield Type D Model B Gun Head Slipover Bags	09034	NY88
Same as above	same as above	8-29-68	Cafco Blaze-Shield Type D 8' Pole	09164	NY89
same as above	same as above	9-10-68	Cafco Blazeshield Type D	09397	NY90

STATE: _____

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Fireproofing Contractors 56 West 45th St. NY, NY	c/o Sprayed Fireproofing Contrs. 39th St. & Broadway NY City, NY	7-22-68	Cafco Blaze-Shield Type D	08607	NY 91
Same as above	c/o New Office Bldg. 39th St. and Broadway NY, NY Attn: Joe Huff	7-29-68	Cafco Blaze-Shield Type D	08649	NY 92
Same as above	Same as above	8-2-68	Cafco Blaze-Shield Type D Type B Gun Head	08779	NY 93
Sprayed Fireproofing Contrs, Inc. 3949 E. 35th St. NY, NY	c/o Greyhound Terminal New York Port Authority Bus Terminal NY, NY	8-23-63	Cafco Sound Shield (1 bag)	08274	NY 94
Sprayed Fireproofing Contractors, Inc. 56 West 45th St. NY, NY	c/o Fordham University Between 60 and 62nd St. and Columbus Circle NY, NY	5-19-67	Type D	11158	NY 95

STATE: N

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Fireproofing Contractors 56 West 45th St NY, NY	RH Macy Queens Blvd. Rego Park N.Y.	5-24-65	Cafco Blaze Shield Type D	05994	NY 96
Same as above	40 Channin Bldg. 1411 Broadway 39th St. and Broadway NY, NY	3-11-69	Cafco Blaze Shield Type D	12360	NY97
Same as above	RH Macy Queens Blvd. Rego Park, NY	4-22-65	Cafco Heat Shield Cafco, Adhesive	05849	NY98
Same as above	Same as above	4-21-65	Cafco Blaze Shield Type D Water Valves	05813	NY99
Same as above	Same as above	4-19-65	Cafco Heat Shield Slipover Bags	05798	NY100

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Fireproofing Contr. 56 West 45th St. NY, NY	Chanin Job 39th St. & Broadway NY, NY	8-9-68	Cafco Blazeshield Type D	08856	NY101
Same as above	c/o Fordham University Between 60 & 62nd St. and Columbus Circle NY, NY	5-3-67	Type D	10754	NY102
Same as above	c/o Harkness Medical Bldg. 1300 York Ave. & East 70th St. NY City, NY	5-22-67	Type D "	11059	NY103
Same as above	c/o Fordham University Between 60 and 62nd St. and Columbus Circle NY, NY	5-17-67	Type D	11077	NY104
Same as above	same as above	5-3-67	Type D	10753	NY105

STATE: _____

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Fireproofing Contrs. 56 West 45th St. NY, NY	c/o Fordham University Between 60 and 62nd St. and Columbus Circle NY, NY	5-25-67	Type D	11159	NY 106
Same as above	Same as above	6-2-67	Type D Cafco Sealer	11160	NY 107
Sprayed Fireproofing Contractors, Inc 249 E. 35th St. NY, NY	c/o Empire Chevrolet Agency Utica & Empire Aves. Brooklyn, NY	9-17-63	1st Stop Cafco Blaze Shield 2nd Stop Cafco Blaze Shield Cafco Sound Shield	08305	NY 108
"Same as above	c/o CBS-5 530 West 57th St. NY, NY	6-10-63	Cafco Blaze Shield Cafco Heat Shield Cafco Adhesive Cafco Sealer	08147	NY 109
Same as above	c/o Malmed Realty Corp. 48-29 31st Pl. Queens, NY	1-9-64	Cafco Blaze Shield Type D	08514	NY 110

ACOUSTICS AND FIREPROOFING CO.

STATE: N.

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Fireproofing Contractors 56 West 45th St. NY, NY	c/o Fordham University 67th and 9th Ave. NY, NY	6-13-69	Cafco Blaze-Shield Type D	13901	NY 111
Same as above	R H Macy Queens Blvd. Rego Park, NY	4-08-65	Cafco Heat Shield Cafco Adhesive Cafco Sealer	05691	NY 112
Same as above	Same as above	4-20-65	Cafco Heat Shield 2 Gun Heads	05601	NY 113
Same as above	c/o 2550 Atlantic Ave. Brooklyn, NY	7-31-70	Cafco Blaze Shield Type D	22219	NY 114
Same as above	R H Macy Queens Blvd. Rego Park, NY	4-16-65	Cafco Blaze Shield Type D	05797	NY 115

SALES RE[illegible]DS FOR

U. S. MINERAL PRODUCTS CO./COLUM[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: _____

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Fireproofing Contrs. 56 West 45th St. NY, NY	RH Macy Queens Blvd Rego Park Queens, NY	4-13-65	Cafco Blaze-Shield Type D	05292	NY116
Same as above	Same as above	3-09-65	Cafco Heat Shield 8 inch Pole Gun 6 inch Pole Gun Cafco Adhesive	05340	NY117
Same as above	Same as above	3-16-65	Cafco Blaze Shield Type D "	05415	NY118
"Same as above	Same as above	2-23-65	Cafco Blaze Shield Type D	05158	NY119
Same as above	Same as above	3-01-65	Cafco Blaze Shield Type D	05229	NY120

SALES RE DS FOR
U. S. MINERAL PRODUCTS CO./COLU ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Fireproofing Contrs. 56 West 45th St. NY, NY	R H Macy Queens Blvd. Rego Park, NY	1-28-65	Cafco Blaze Shield Type D	04765	NY121
Same as above	Girl Scount Council Bldg. 335 E. 46th St. NY, NY	1-21-66	Cafco Blaze Shield Type D	9925	NY122
Same as above	Nat. Maritime Union Bldg. 346 West 17th St. NY, NY	10-21-65	Cafco Blaze Shield Type D "	07947	NY123
"Same as above	Same as above	10-27-65	Cafco Sound Shield Patching Fiber Cafco Blaze-Shield Type D Hipower Bays	08063	NY124
Same as above	% Fordham University Job Between 60th & 62nd St. Columbus Circle NY, NY	7-31-67	Cafco Type D	12839	NY125

U. S. MINERAL PRODUCTS CO./COLUM ACOUSTICS AND FIREPROOFING CO.

STATE: _____ _____

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., New York	c/o Meadowbrook Hospital Hempstead Turnpike & Carmen Ave. Meadowbrook, Long Island, NY	4-24-69	Cafco Blaze Shield Type D	13110	NY126
Same as above	Same as above	2-21-69	Cafco Blaze Shield Type D	12084	NY127
Same as above	same as above	2-27-69	Cafco Blaze Shield Type D	12161	NY128
Mancini & Klimchuck 129 Odell Ave. Endicott, NY	c/o First City Natl Bank Court St. Binghamton, NY HRH Const. Co.	8-23-71	Cafco Blaze-Shield Type D	11962	NY129
Same as above	c/o Temple Israel Bldg. Vestal, NY c/o Edward L. Nezelek, Inc.	4-19-68	Cafco Blaze-Shield Standard Cafco Latex	07144	NY130

SALES RE[illegible]S FOR

U. S. MINERAL PRODUCTS CO./COLUM[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: [illegible]

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mancinni & Klinchuck 129 Odell Avenue Endicott, NY	c/o Vincent J. Smith, Gen. Contr. Wilson Memorial Hosp. Johnson City, NY	12-4-68	Cafco Blaze-Shield Type D	10984	NY131
Same as above	1st Stop Busse (or Russe) School Glenwood Rd. Binghamton, NY 2nd Stop Cornell Univ. Multi Cat. Lab Bldg. Ithaca, NY Stewart & Brodie GC.	12-13-71	1st Stop Cafco Blazeshield Type D C/F Cafco Patching Fiber 2nd Stop Cafco Blazeshield Type D C/F	13345	NY132
Same as above	1st Stop Spencer Van-Elton School Spencer, NY Last Stop Chemung Canal Trust Co. Main St. Elmira, NY	9-21-70	1st Stop Cafco Blazeshield Type D Last Stop Cafco Blazeshield Type D	23132	NY133
Richter Acoustics Co. 510 Fenimore Rd. Mamaroneck, NY	c/o 67th Ave. & 102nd St. Forest Hills, Queens, NY	9-5-62	Cafco Sound Shield	07625	NY134
Richter Sales Co., Inc. Same address as above	c/o Route 59 & New York Thruway, Spring Valley, NY	7-5-62	Cafco Sound Shield	07486	NY135

U. S. MINERAL PRODUCTS CO./COLUM ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Richter Insulation & Sales Co. 641 Center Ave. Mamaroneck, NY	Meet man at Post Rd. in Dairy Ann, just before Norwalk Border Line, just before Cook Restaurant	11-26-57	Cafco Spray, Type 1 Cafco Sealer	01076	NY136
Richter Acoustical and Fireproofing ~~641 Center Ave~~ Same address as above	Chateau Towers Restaurant 1 block away from Pelham Base	5-7-58	Cafco Spray, Standard Cafco Adhesive	03466	NY137
New York Aircraft Inc 280 Madison Ave. NY, NY	551 09 and St. Long Is. City, NY	2-15-66	Cafco Sound Shield 85 Cafco Blaze Shield Type D	10143	NY138
Anderson-Johnson Co. 918 Canal St. Syracuse, NY	c/o Fletcher McCarthy Const. Co. Utica Mutual Life Insurance Co. New Hartford, NY	6-4-70	Cafco Blaze-Shield Type D	21237	NY139
same as above	Conforti & Eisele Co. Colonie Center Colonie, NY	1-66	Type D	11805	NY140

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Henderson Johnson Co. 918 Canal St. Syracuse, NY	Streeter Assoc. St. Johns Attenument Semina Montour Falls, NY	11-08-65	Cafco Heat Shield Cafco Adhesive	8039	NY141
Same as above	c/o Sano Rubin Const. Co. Albany State Teachers College, New Dormitory Western Ave Albany, NY	7-17-59	Cafco Heat Shield	03174	NY142
Same as above	c/o Sano Rubin Const. Co. Albany Medical College New Scotland Ave. Albany, NY	6-4-62	Cafco Sound-Shield Cafco Blaze-Shield Cafco Adhesiv Cafco Sealer	07419	NY143
Same as above	c/o Pahl Const. Co. Sibley Project, Phase B Syracuse, NY	6-4-69	Cafco Heat Shield Cafco Bond-Seal	13693	NY144
Same as above	H.S. Kaiser Co. Veterans Admin. Hospital Syracuse, NY	2-23-66	Cafco Blaze Shield Type D	10167	NY145

U. S. MINERAL PRODUCTS CO./COLUM... ACOUSTICS AND FIREPROOFING CO.

STATE: NY

30

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Henderson-Johnson Co Inc 918 Canal St. Syracuse, NY	Minnesota Mining & Mfg. Co. 1900 Mt. Reed Blvd. Rochester, NY	2-1-68	Cafco Patching Fiber	05758	NY146
Same as above	40 3M Building 1900 Mt. Reed Blvd. Rochester, NY Turner Const. Co.	1-15-68	Cafco Blazeshield Type D	05465	NY147
Same as above	Same as above	1-3-68	Cafco Blazeshield Type D "	05229	NY148
Same as above	Same as above	12-8-67	Cafco Patching Fiber	04055	NY149
Same as above	Same as above	11-28-67	Cafco Blazeshield Type D Mark II Coating Cafco Patching Fiber	03731	NY150

SALES RE[illegible]DS FOR

U. S. MINERAL PRODUCTS CO./COLU[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: N

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Henderson-Johnson Co. Inc 918 Canal St. Syracuse, NY	3M Building 1900 Mount Read Blvd. Rochester, NY	11-13-67	Cafco Blaze-Shield Type D Mark II Coating	03363	NY151
Same as above	c/o M.S. Kelliher Co. Inc University of Rochester Dining Hall East and West Towers Rochester, NY	3-25-63	Cafco Sound Shield	07979	NY152
Same as above	c/o 3M Building Turner Const. Co. 1900 Mount Read Blvd. Rochester, NY	3-20-68	Cafco Blaze-Shield Type D "	06620	NY153
Same as above	Minnesotta Mining & Mfg. Co. Same address as above	4-10-68	Cafco Patching Fiber	07145	NY154
Same as above	Perfetto Whalen Const. Mercy Hospital Health & Rehabilitation Center Nursing Home Auburn, NY	5-07-71	Cafco Blaze-Shield Type D	10333	NY155

U. S. MINERAL PRODUCTS CO./COLUM ACOUSTICS AND FIREPROOFING CO.

STATE: _____ _____

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Fireproofing Contractors 56 West 45th St. New York, NY	c/o National Bank of Westchester North Avenue New Rochelle, NY	6-2-69	Cafco Blaze Shield Type D	13585	NY156
Same as above	c/o Long Island University Willoughby Street Brooklyn, NY G.C. Foster Goldman	5-1-67	Type D	10187	NY157
same as above	c/o Susan Wagner High Brielle Ave. & Manor Rd. Richmond, Staten Is., NY	12-6-66	Type D	42690	NY158
Wm. Isherwood, Inc. same address as above	MONY Insurance Bldg. Syracuse, NY	6-20-66?	Type D	11620	NY159
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, Long Island, NY	c/o Meadowbrook Hospital Hempstead Turnpike & Carmon Ave. Meadowbrook, Long Island, NY.	11-14-69	Cafco Blaze-Shield Type D	16968	NY160

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	c/o Diesel Const. Co. Richmond College 130 Stuyvesant Place St. George, Staten Is. Attn: John O'Donnell	10-11-68	Cafco Patching Fiber	09990	NY 161
Henderson Johnson Co. Inc 918 Canal St. Syracuse, NY	Utica Mutual Life Insurance Co. New Yartford, NY	6-24-70	Cafco Blazeshield Type D	21686	NY162
Allied Plastering Co. 20 East First Ave. Mt. Vernon, NY	c/o PepSi-Cola Building Anderson Hill Road Harrison, NY	1-10-69	Cafco Patching Fiber "	11433	NY163
Colletti & Leguidara Inc. 10 Fiske Place Mt. Vernon, NY	New Yonkers Public Library Central Ave. South of Tuckahoe Rd. Yonkers, NY	8-3-61	Cafco Sound Shield Cafco Adhesive	06532	NY 164
Same as above	Same as above	8-7-61	Cafco Sound Shield	06549	NY 165

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Colletti & Laguidara Inc 20 East First St. Mt. Vernon, NY	c/o IBM job 1000 Westchester Ave. Harrison, NY	10-2-67	Cafco Blaze-Shield Type D	02461	NY 166
Same as above	Same as above	10-11-67	Type D	02604	NY 167
Same as above	Same as above	10-12-67	Type D	02605	NY 168
Same as above	c/o White Plains Plaza North Broadway & Main St. White Plains, NY	10-16-67	Cafco Heat Shield Cafco Latex Cafco Sealer	02745	NY 169
Same as above	c/o IBM 1000 Westchester Ave. Harrison, NY	10-19-67	Cafco Blaze-Shield Type D	02809	NY 170

U. S. MINERAL PRODUCTS CO./COLUM ACOUSTICS AND FIREPROOFING CO.

STATE: _____ _____

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Colletti & Laquidara Inc. 20 East 1st Street Mt. Vernon, NY	IBM 1000 Westchester Ave. Harrison, NY	10-20-67	Cafco Blaze Shield Type D	02814	NY171
Same as above	Same as above	10-26-67	Cafco Type D	02924	NY172
Same as above	Same as above	10-27-67	Cafco Blaze-Shield Type D "	02931	NY173
Colletti & Laquidara, Inc 10 Fiske Place Mt. Vernon, NY	C/o Sinai Temple 132 Crary Avenue Mt. Vernon, NY	6-25-59	Cafco Heat Shield Cafco Sound Shield Cafco Adhesive Cafco Sealer	03058	NY174
Same as above	Same as above	7-20-59	Cafco Sound Shield Cafco Heat Shield Cafco Adhesive Cafco Sealer	03175	NY175

STATE: _____ / _____

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Colletti & Laquidara, Inc. 20 East First St. Mt. Vernon, NY	Van Wyck Expressway job Queens, N.Y.	1-10-64	Cafco Blaze Shield Cafco Sound Shield	NX#68	NY 176
Same as above	IBM Building 1000 Westchester Ave. Harrison, NY	11-6-67	Cafco Blaze Shield Type D Model B Nozzles Cafco Latex Adhesive	03309	NY 177
Same as above	c/o Pepsi-Cola Building Anderson Hill Rd. Harrison, NY Entrance on Lincoln Ave.	10-30-69	Cafco Blaze-Shield Type D "	16553	NY 178
Same as above	1st Stop Office Bldg., 200 Ken St. Off Rte 22 White Plains, NY Pepsi Cola Bldg. Anderson Hill Rd. Harrison, NY	10-15-69	1st Stop Cafco Blaze Shield Type D Cafco Blazeshield Type D Cafco Patching Fiber Model B Nozzle	16192	NY 179
Same as above	c/o National Airlines Bldg. Kennedy Airport Long Island, NY John Lowery, Gen Contr.	2-21-69	Cafco Blazeshield Type D	12556	NY 180

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Colletti & Laquidara, Inc. 20 East First St. Mt. Vernon, NY	Bloomingdale Road North side of Cross Westchester Expressway, White Plains, NY	3-29-67	Type D Model A Nozzle Sealer	10012	NY 181
Same as above	% PepsiCola Building Anderson Hill Road Harrison, NY	1-22-69	Cafco Blazeshield Type D	11596	NY 182
Same as above	Same as above	2-5-69	Cafco Blazeshield Type D	11843	NY 183
Same as above	Same as above	1-10-69	Cafco Blazeshield Type D	11435	NY 184
Same as above	Same as above	1-16-69	Cafco Blazeshield Type D	11518	NY 185

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Colletti & Laquidara, Inc 20 East First Street Mt. Vernon, NY	c/o Pepsi Cola Building Anderson Hill Road Harrison, NY	1-27-69	Cafco Blaze Shield Type D	11670	NY186
Same as above	Same as above	1-31-69	Cafco BlazeShield Type D	11776	NY187
Colletti & Laquidara Inc 10 Fiske Place Mt. Vernon, NY	c/o Colletti & Laquidara Inc. 370 West St. West & Washington St. NY City (Lower Manhattan)	9-21-60	Cafco Sound Shield Cafco. Adhesive	04731	NY188
Colletti & Laquidara Inc 20 East First Ave. Mt. Vernon, NY	c/o Pepsi-Cola Bldg. Anderson Hill Rd. Harrison, NY	11-27-68	Cafco BlazeShield Type D	10803	NY189
Same as above	Same as above	12-5-68	Cafco Blazeshield Type D	10804	NY190

SALES R[illegible]OS FOR

U. S. MINERAL PRODUCTS CO./COLUM[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Colletti & Laquidara, Inc. 20 East First St. Mt. Vernon, NY	c/o Pepsi-Cola Bldg. Anderson Hill Rd. Harrison, NY	11-14-68	Cafco BlazeShield Type D	10559	NY191
Same as above	Same as above	11-14-68	Cafco BlazeShield Type D	10560	NY192
Same as above	Same as above	11-6-68	Cafco Blazeshield Type D	10360	NY193
Same as above	c/o 4231 Vireo Ave. Off 233rd St exit, head East Near Woodland Cemetary, 2 blocks before Webster Ave. Bronx, NY	10-16-68	Cafco Blazeshield Type D	10075	NY194
Same as above	c/o Pepsi-Cola Bldg. Anderson Hill Rd. Harrison, NY	10-31-68	Cafco Blazeshield Type D	10358	NY195

SALES RE[illegible]DS FOR

U. S. MINERAL PRODUCTS CO./COLUM[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: N

40

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Colletti & Laguidara Inc. 20 East First St. Mt. Vernon, NY	c/o Pepsi-Cola Building Anderson Hill Rd. Harrison, NY	11-6-68	Cafco Blazeshield Type D Cafco Patching Fiber	10359	NY196
Same as above	c/o Continental Baking Co. Theodore Freind Ave. (get off at Rye Playland exit) Parallel with New England Thruway near Osborne Old Age Home Rye, NY	3-8-68	Cafco Blazeshield Type D Cafco Patching Fiber Cafco Solvent Adhesive Cafco Sealer	06495	NY197
Same as above	c/o Stewart Muller 222 Westchester Ave. White Plains, NY (near new IBM Building)	3-14-68	Cafco Blazeshield Type D "	06594	NY198
Cuddihy & Husbner 250 West Main St. Montauk Highway Bayshore, Long Is., NY	c/o Harper College Physical Science Bldg. Binghamton, NY Penn York, Gen. Contrs.	12-18-67	Cafco Heat Shield Cafco Sealer Cafco Solvent Adhesive	04199	NY199
Bill Gargano, Inc. PO Box 673 122 Jennings St. Endicott, NY	Harper College Physical Ed. Bldg. Vestal, NY c/o Bill Gargano	9-23-68	Sound Shield 85 Blaze-Shield Type D	09551	NY200

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mr. Wm. Gargano 122 Jennings St. Endicott, NY	Neil R. Nielson Const. YMCA Building Oneonta, NY	2-15-65	Cafco Sound Shield Cafco Heat Shield Cafco Adhesive Solvent	05098	NY201
Henderson-Johnson Co. Inc. 918 Canal Street Syracuse, NY	c/o Daniel J. Meagher Const. Co. Treadway Inn Oak St. Batavia, NY	10-26-60	Cafco Sound Shield Cafco Adhesiv Cafco Sealer	04880	NY202
same as above	c/o Deline Const. Co. YMCA-YWCA Pool Bldg. 200 Block of Massey St. Watertown, NY	10-4-68	Cafco Blazeshield, Standard "	09763	NY203
Davis-Fetch & Co. 236 Seajaguada St. Buffalo, NY	c/o New York State Animal Hospital Springville, NY (40 mi. South of Buffalo)	11-12-58	Cafco Spray Type 1	02148	NY204
Gargano Plastering Co. 122 Jennings St. Endicott, NY	Cortland State Teachers C Cortland Lecture Hall Cortland, NY William C. Paul, Gen. Contr.	1-11-66	Cafco Blazeshield Type D	9827	NY205

SALES RE[illegible]DS FOR
U. S. MINERAL PRODUCTS CO./COLUM[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: _____

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Allied Plastering Co. 20 E 1st St. Mt. Vernon, NY (same address as Colletti & Leguidara, Inc)	Indoor Tennis Court Cliff St. New Rochelle, NY	11-05-65	Cafco Blaze Shield Type D	8067	NY206
Same as above	Korvettes Dept. Store Pelham Pky & Boston Post Rd. US 1 Pelham Manor Westchester County, NY	11-12-65	Cafco Blaze Shield Type D	8233	NY207
Same as above	Same as above	11-12-65	Cafco Blazeshield Type D "	8234	NY208
" Same as above	Same as above	11-26-65	Cafco Blazeshield Type D	8330	NY209
Same as above	Same as above	11-26-65	Cafco Blazeshield Type D	8331	NY210

SALES RE[illegible]DS FOR

U. S. MINERAL PRODUCTS CO./COLUM[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: _____

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Allied Plastering Co. 20 E 1st St. Mt. Vernon, NY (same address a Colletti & Laguidara, Inc)	Korvettes Dept. Store Pelham Pky. & Boston Post Rd US 1 Pelham Manor Westchester County, NY	12-08-65	Cafco Blazeshield Type D	9567	NY 211
Same as above	Same as above	12-13-65	Cafco Blazeshield Type D	9629	NY212
Same as above	c/o 134th St. & Union Tpke. Queens, NY	8-29-63	Cafco Blaze Shield Cafco " Sound Shield	08280	NY213
"Same as above	c/o Milton Harbor Houses Rye, N.Y.	4-19-67	Type D	10469	NY214
Same as above	c/o Pepsi-Cola Bldg. Anderson Hill Rd. Harrison, NY	11-6-68	Cafco Patching Fiber	10460	NY215

U. S. MINERAL PRODUCTS CO./COLU[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Henderson-Johnson Co. Inc 918 Canal St. Syracuse, NY	40 Lange-Finn Const. Co. Maintenance Bldg. Water Filtration Plant Northern Drive at Rt. 40 Troy, NY	9-24-64	Cafco Blaze Shield	09140	NY 216
Same as above	40 D. Fortunato Inc. NY.P.P. Power Control Center Rt. 20 & Rt. 146 Near McCormacks Corner Guilderland, NY	4-15-69	Cafco Blaze Shield Type D	12872	NY 217
Sprayed Fireproofing Con. 56 West 45th St. NY, NY	Memorial Home Hospital 15 Armon St. Brooklyn, NY	12-02-65	Cafco Blaze Shield Type D "	9527	NY 218
Wm. Isherwood, Inc. 6 H. 46th St. NY City, NY	40 American Airlines Passenger Terminal Bldg. International Airport Queens, NY	11-23-59	Sound Shield Cafco Adhesive	03754	NY 219
Wm. Isherwood, Inc. 56 West 45th St. NY, NY	Pan Am Cargo Bldg. Kennedy Airport NY, NY	1-25-66	Cafco Blazeshield Type D	9956	NY 220

U. S. MINERAL PRODUCTS CO./COLU SALES RE OS FOR ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Firsproofing Contrs. Inc. 56 West 45th St. NY, NY	1st Step c/o New Bank Bldg. 176 Broadway NY, NY 2nd Step Warehouse 496 Jelliff Ave. Newark, N.J.	9-19-67	1st Step Cafco Blazeshield Type D 2nd Step Cafco Blazeshield Type D	02163	NY221
J.L. Kemptherne c/o Sprayon Insulation and Acoustics 315 N. 6th St. Newark, N.J.	J.L. Kemptherne c/o Right Finishing Co. 14 St. John St. Monticello, NY	3-3-58	Cafco Spray, Type 1	01338	NY222
Same as above	Fort DuBoise Job, N.Y.	6-20-58	Cafco Spray, Type 2 Cafco Spray, Standard	01684	NY223
Same as above	Richter Acoustics and Firsproofing Co. 641 Center Ave. Mamaroneck, NY	4-8-58	Cafco Spray, Type 1 Cafco Adhesive Cafco Sealer Cafco Spray, Type Standard	01501	NY224
Same as above	Same as above	9-25-58	Cafco Spray, Standard Spray Bon	01988	NY225

U. S. MINERAL PRODUCTS CO./COLUM ACOUSTICS AND FIREPROOFING CO.

STATE: N

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
J.L. Kemptherne c/o Sprayon Insulation & Acoustics 315 North 6th St. Newark 7, N.J.	c/o Richlee Acoustical and Fireproofing Co. 3181 Westchester Ave. Bronx, NY Ordi Const. Co.	9-23-58	Spraydon, Standard Adhesive Sealer	01983	NY226
Mancini & Klimchuck 129 Odell Ave. Endicott, NY	First City National Bank Court St. Binghamton, NY HRH Const. Co.	6-18-71	Cafco Blazeshield Type D	11134	NY227
Same as above	New York Telephone Bldg. Church St. Elmira, NY	6-03-71	Cafco Blazeshield Type D "	11115	NY228
" Same as above	Same as above	6-03-71	Cafco Blazeshield Type D	11116	NY229
Same as above	1st Stop IBM job Bldg. #14 Endicott, NY 2nd Sale Elmira, NY	11-20-?	Cafco Blazeshield Type D Cafco Blazeshield Type D	24636	NY230

U. S. MINERAL PRODUCTS CO./COLUM ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mancini & Klimchuck Co., Inc. 129 Odell St. Endicott, NY	1st Stop: Wayne County Memorial Hospital Job Honnesdale, Penn. Last Stop: Theodore Roosevelt Bevir St. Binghamton, NY	6-15-70	1st Stop Cafco Blazeshield Type D Last Stop Cafco Blazeshield Type D	21416	NY231
Same as above	c/o Theodore Roosevelt Bevir St. Binghamton, NY	8-5-70	Cafco Blazeshield Type D	22330	NY232
Kane Acoustical Co., Inc. 692 West Prospect Ave. Fairview, N.J.	Kay Fries Chemical West Haverstraw, NY	7-18-62	Cafco that Shield Cafco Adhesive Cafco "Sealer	07509	NY 233
Jilliam Isherwood Inc. 6 E. 46th St. NY17, NY	c/o American Airlines Passenger Terminal Bldg. International Airport Queens, NY	7-14-59	Cafco Blaze Shield Cafco Sound Shield	03157	NY 234
Iario & DiBono Plastering Co. Inc. 370 Northern Blvd. Great Neck, Long Is., NY	437 Madison Ave. NY, NY Job Phone: 755-2551	5-17-67	Type D	11126	NY235

U. S. MINERAL PRODUCTS CO./COLU[illegible] SALES RE[illegible]DS FOR ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering Co. Inc. 370 Northern Blvd. Great Neck, Long Is., NY	437 Madison Ave. NY, NY Job Phone 755-2551	5-5-67	Type D	10892	NY 236
Same as above	Same as above	5-5-67	Type D	10893	NY237
Same as above	40 New Office Bldg. 43rd St. & Ave. of Americas Between 43rd & 44th St. 1133-6th Ave. NY, NY	7-22-68	Cafco Blazeshield Type D "	08617	NY238
Same as above	437 Madison Ave. NY, NY	4-6-67	Type D	10252	NY239
Same as above	Same as above	4-20-67	Type D	10429	NY240

SALES RE[illegible]OS FOR
U. S. MINERAL PRODUCTS CO./COL[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering Co. Inc. 370 Northern Blvd. Great Neck, L.I, NY	437 Madison Ave. NY, NY	4-3-67	Type D	10097	NY 241
Same as above	% New Office Bldg. 43rd St. & Ave. of Americas Between 43rd & 44th St. 1133 - 6th Ave. N.Y., NY	8-7-68	Cafco Blazeshield Type D	08471	NY242
Same as above	Same as above	7-12-68	Cafco Blazeshield Type D "	08467	NY243
Same as above	McGraw Hill Job 7th Avenue Between 48th & 49th St. Enter on 7th Ave. NY, NY	9-21-70	Cafco Blazeshield Type D	23139	NY 244
Same as above	Same as above	9-16-70	Cafco Blazeshield Type D	22969	NY245

SALES RECORDS FOR

U. S. MINERAL PRODUCTS CO./COLUMBIA ACOUSTICS AND FIREPROOFING CO.

STATE: NY

50

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	600 3rd Ave. NY, NY	9-8-70	Cafco Blazeshield Type D	22946	NY246
Same as above	McGraw Hill Project 7th Avenue Between 48th & 49th St. Enter on 7th Ave. side N.Y., N.Y.	9-4-70	Cafco Blazeshield Type D	22834	NY247
Same as above	Same as above	9-3-70	Cafco Blazeshield Type D "	22833	NY248
Same as above	600-3rd Ave. NY, NY	7-1-70	Cafco Blazeshield Type D	21675	NY249
Same as above	% World Trade Center 136 Liberty St. and Westside Highway NY, NY	3-31-70	Cafco Blazeshield Type D-X ?	20060	NY250

SALES RE[illegible]DS FOR
U. S. MINERAL PRODUCTS CO./COLU[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering Co. Inc. 370 Northern Blvd. Great Neck, L.I., NY	c/o Sig. Sommers Const. Co. 600 3rd Ave. NY, NY	6-19-70	Cafco Blazeshield Type D	21510	NY 251
Same as above	c/o 111 Livingston St. Brooklyn, NY	6-22-70	Cafco Blaze Shield Type D Cafco Patching Fiber	21534	NY 252
Same as above	Same as above	2-24-70	Cafco Blazeshield Type D "	21588	NY 253
Same as above	Same as above	6-26-70	Cafco Blazeshield Type D	21589	NY 254
Same as above	Same as above	6-16-70	Cafco Blazeshield Type D	21451	NY 255

U. S. MINERAL PRODUCTS CO./COLU[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

52

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering Co. Inc 370 Northern Blvd. Great Neck, L.I., NY	140 Broadway New York, NY	1-27-66	Cafco Blazeshield Type D	9947	NY256
Same as above	Same as above	2-03-66	Cafco Blazeshield Type D	9969	NY257
Same as above	Same as above	12-27-65	Blaze Shield "D" "	9736	NY 258
Same as above	Same as above	1-03-66	Cafco Blazeshield Type D	9777	NY 259
Same as above	Same as above	1-26-66	Cafco Blazeshield Type D	9917	NY260

U. S. MINERAL PRODUCTS CO./COLU[illegible] SALES RE[illegible]DS FOR ACOUSTICS AND FIREPROOFING CO.

STATE: N.

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering Co. Inc. 370 Northern Blvd. Great Neck, L.I., NY	140 Broadway NY, NY	1-26-66	Cafco Blazeshield Type D	9944	NY261
Same as above	c/o McGraw Hill job 7th Ave. Between 48th & 49th St. Enter on 7th Ave. Side NY, NY	11-11-70	Cafco Blazeshield Type D	24279	NY262
Same as above	Same as above	11-17-70	Cafco Blazeshield "	24494	NY263
Same as above	Same as above	11-20-70	Cafco Blazeshield Type D	24543	NY264
Same as above	Same as above	11-24-70	Cafco Blazeshield Type D	24573	NY 265

SALES RE[illegible]DS FOR

U. S. MINERAL PRODUCTS CO./COLU[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

54

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario j DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	c/o McGraw-Hill job 7th Ave. Between 48th & 49th St. NY, NY	11-2-70	Cafco Blazeshield Type D	24016	NY266
Same as above	Same as above	11-6-70	Cafco Blazeshield Type D	24212	NY267
Same as above	Same as above	10-19-70	Cafco Blazeshield Type D	23733	NY268
Same as above	140 Broadway NY, NY Permit # 11 1734496	3-03-66	Cafco Blazeshield Type D	10279	NY269
Same as above	Same as above	3-08-66	Cafco Blazeshield Type D	10326	NY270

U. S. MINERAL PRODUCTS CO./COLU[illegible] SALES RE[illegible]DS FOR ACOUSTICS AND FIREPROOFING CO.

STATE: N,

55

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	40 McGraw-Hill job 7th Ave. Between 48th & 49th St. Enter on 7th Ave. Side NY, NY	11-30-[illegible]	Cafco Blazeshield Type D	24736	NY271
Same as above	114 Broadway NY, NY Permit # 11 1734496	2-23-66	Cafco Blazeshield Type D	10191	NY272
Same as above	140 Broadway NY, NY Permit # 11 1734496	2-25-66	Cafco Blazeshield Type D	10249	NY273
Same as above	Same as above Permit # 11 1734469	3-01-66	Cafco Blazeshield Type D	10252	NY 274
Same as above	Same as above Permit # 11 1735496	2-08-66	Cafco Blazeshield Type D	10048	NY 275

U. S. MINERAL PRODUCTS CO./COLU[illegible] SALES R[illegible]OS FOR / ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plasteri- 370 Northern Blvd. Great Neck, L.I., NY	140 Broadway NY, NY Permit # 11 1734496	2-10-66	Cafco Blazeshield Type D	10089	NY276
Same as above	Same as above	2-16-66	Cafco Blazeshield Type D	10139?	NY277
Same as above	114 Broadway NY, NY Permit # 11 1734496	2-18-66	Cafco Blazeshield Type D "	10158	NY278
"Same as above	140 Broadway NY, NY 11-1734496	3-20-67	Type D	45223	NY279
Same as above	437 Madison Ave. NY, NY 11-1734496	3-27-67	Type D	45352	NY280

SALES R[illegible]DS FOR
U. S. MINERAL PRODUCTS CO./COL[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

57

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plasteri-1 370 Northern Blvd. Great Neck, L.I., NY	140 Broadway NY, NY 11-1734496	12-20-66	Type D	43322	NY281
Same as above	437 Madison Ave. NY, NY 11-1734496	3-13-67	Type D	45095	NY 282
Same as above	Same as above	7-25-67	Cafco Type D	12539	NY 283
Same as above	Same as above	2-1-67	Type D	44232	NY 284
Same as above	Same as above	2-1-67	Type D	44305	NY 285

U. S. MINERAL PRODUCTS CO./COLI[illegible] SALES RE[illegible]DS FOR ACOUSTICS AND FIREPROOFING CO.

STATE: N.

58

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & Dibono Plastering 370 Northern Blvd. Great Neck, L.I., NY	437 Madison Ave. NY, NY 11-1734496	1-16-67	Type D	43860	NY286
Same as above	Same as above	1-26-67	Type D	44116	NY287
Same as above	Same as above	1-16-67	Type D	43859	NY288
Same as above	140 Broadway NY, NY 11-1734496	1-5-67	Type D	43566	NY289
Same as above	Same as above	7-14-66	Type D	11959	NY290

U. S. MINERAL PRODUCTS CO./COLU SALES RE DS FOR ACOUSTICS AND FIREPROOFING CO.

STATE: N

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plasteri- 370 Northern Blvd. Great Neck, L.I., NY	140 Broadway N.Y.	6-16-66	Type D	11602	NY 291
Same as above	Same as above	6-23-66	Type D	11622	NY 292
Same as above	Same as above	6-23-66	Type D	11623	NY 293
Same as above	Same as above 11-1734496	6-30-66	Type D	~~11714~~ 11714	NY 294
Same as above	Same as above	6-30-66	Type D	11715	NY 295

U. S. MINERAL PRODUCTS CO./COLU[illegible] SALES RE[illegible]DS FOR ACOUSTICS AND FIREPROOFING CO.

STATE: NY

60

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	140 Broadway N.Y	6-16-66	Type D	11601	NY296
Same as above	437 Madison Ave. NY, NY 11-1734496	2-14-67	Type D	44515	NY297
Same as above	140 Broadway NY, NY 11-1734496	2-20-67	Type D	44641	NY298
Same as above	437 Madison Ave NY, NY 11-1734496	2-27-67	Type D	44712	NY299
Same as above	Same as above	3-2-67	Type D	44863	NY300

U. S. MINERAL PRODUCTS CO./COL' SALES R OS FOR ACOUSTICS AND FIREPROOFING CO.

61

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	437 Madison Ave. NY, NY 11-1734496	3-8-67	Type D	44966	NY301
Same as above	c/o World Trade Center 136 Liberty St. & Westside Highway NY, NY	3-24-70	Cafco Blazeshield Type "D-X" ?	19974	NY302
Sprayed Fireproofing Contrs. Inc. 249 East 35th St. NY, NY	1st Stop N.E. (?) Burner 265 Great Neck Rd. Great Neck, NY 2nd Stop 494 Jelliff Ave. Newark, N.J.	1-27-64	1st Stop Cafco Heat Shield 2nd Stop Cafco Blaze Shield Cafco Sound Shield	08526	NY303
Sprayed Fireproofing Contrs. Inc. 56 West 45th St. NY, NY	State College New Paltz, NY	6-23-70	Cafco Blazeshield Type D	21574	NY304
Same as above	Same as above	6-30-70	Cafco Blazeshield Type D	21696	NY305

U. S. MINERAL PRODUCTS CO./COLI[illegible] SALES R[illegible]DS FOR ACOUSTICS AND FIREPROOFING CO.

STATE: NY

02

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Fireproofing Contrs. Inc. 56 West 45th St. NY, NY	C S Braun (?) Mountain Ave & Diamond Hi Murray Hill, NY	2-26-65	Cafco Blaze Shield Patching Fiber	05238	NY306
Same as above	SE Queens High School Springfield Blvd. Springfield Gardens, NY	5-06-65	Cafco Blaze Shield Type D	06001	NY307
Same as above	C/o IBM Bldg. Faculty Complex Bldg. 133 Westchester Ave. White Plains, NY	7-22-68	Cafco Blaze Shield Type D	08606	NY308
Same as above	Same as above	5-27-68	Cafco Blaze Shield Type D	07803	NY309
Same as above	Same as above	7-1-68	Cafco Blaze Shield Type D	08355	NY310

U. S. MINERAL PRODUCTS CO./COLI[illegible] SALES RE[illegible]DS FOR ACOUSTICS AND FIREPROOFING CO.

STATE: N.

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Fireproofing Contrs. Inc. 56 West 45th St. NY, NY	IBM Head quarters Faculty Complex Bldg. 133 Westchester Ave. White Plains, NY	6-19-68	Cafco Blazeshield Type D	08204	NY311
Right Finishing Co. Woodcliff Ave. Monticello, NY	New YMCA Bldg. Poughkeepsie, NY	5-15-68	Cafco Blazeshield Type D	07570	NY312
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	65th & Central Park West NY, NY or 65th St. 11-1734496	11-10-69	Cafco Blazeshield Type D "	16844	NY313
"Same as above	Same as above	10-31-69	Cafco Blazeshield Type D	16610	NY314
Same as above	1st Stop 1133 6th Ave. NY, NY 2nd Stop 50th St. & 3rd Ave. NY, NY	9-23-68	1st Stop Cafco Blazeshield Type D 2nd Stop Cafco Blazeshield Type D	09622	NY315

U. S. MINERAL PRODUCTS CO./COLUM ACOUSTICS AND FIREPROOFING CO.

STATE: A

64

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastri- 370 Northern Blvd. Great Neck, L.I, NY	New Office Bldg. 43rd and 6th Ave. NY, NY	11-1-68	Cafco Blazeshield Type D	10377	NY316
Same as above	Same as above	11-20-68	Cafco Blazeshield Type D	10672	NY317
Same as above	Office Bldg. 43rd St. & Ave. of Americas Between 43rd & 44th St. 1133-6th Ave. NY, NY	3-21-68	Cafco Blaze Shield Type D	06741	NY318
Same as above	39th St. & 3rd Ave. NY, NY	7-8-70	Cafco Blazeshield Type D	21843	NY319
Same as above	140 Broadway NY, NY 11-1734496	12-7-66	Type D	43060	NY320

U. S. MINERAL PRODUCTS CO./COLUM ... ACOUSTICS AND FIREPROOFING CO.

STATE: _____ _____

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & Dibono Plastering Co 370 Northern Blvd. Great Neck, LI, NY	600 - 3rd Ave. NY, NY	7-13-70	Cafco Blazeshield Type D	21920	NY321
same as above	same as above	7-20-70	Cafco BlazeShield Type D	22070	NY322
same as above	same as above	8-26-70	Cafco BlazeShield Type D "	22727	NY323
same as above	same as above	9-1-70	Cafco Blazeshield Type D	22798	NY324
Mario & DiBono Plastering 370 Madison Ave. NY, NY	1st Stop 600-3rd Ave. NY, NY Last Stop c/o School Job Co-op City Bay Chester Ave Bronx, NY	8-7-70	1st Stop Cafco Blazeshield Type D Last Stop Cafco Blazeshield Type D	22408	NY325

SALES RE[illegible]DS FOR

U. S. MINERAL PRODUCTS CO./COLU[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

66

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	600-3rd Avenue & 39th St. NY, NY	8-21-70	Cafco Blazeshield Type D	22645	NY326
Same as above	Same as above	7-16-70	Cafco Blazeshield Type D	22002	NY327
Same as above	New Office Bldg. 43rd St. and 6th Ave. NY, NY	3-4-69	Cafco Blazeshield Type D	12227	NY328
Same as above	New Office Bldg. 50th St. & 3rd Ave. 825 3rd Ave. N.Y., N.Y.	6-14-68	Cafco Blazeshield Type D	08127	NY329
Same as above	New Office Bldg. 43rd St. & Ave. of Americas Between 43rd & 44th St. 1133-6th Ave. NY, NY	6-20-68	Cafco Blazeshield Type D	08197	NY330

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	New Office Bldg. 43rd St. & Ave. of America Between 43rd & 44th St. 1133 - 6th Ave. NY, NY	6-20-68	Cafco Blaze Shield Type D	08198	NY331
Same as above	Same as above	6-28-68	Cafco Blaze Shield Type D	08289	NY 332
Same as above	Same as above	6-28-68	Cafco Blazeshield Type D	08290	NY 333
Same as above	Same as above	5-23-68	Cafco Blazeshield Type D	07815	NY 334
Same as above	Same as above	6-5-68	Cafco Blaze Shield Type D	07912	NY 335

U. S. MINERAL PRODUCTS CO./COLUM ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plasteri-) 370 Northern Blvd. Great Neck, Long Is., NY	New Office Bldg. 43rd St. & Ave. of Americas Between 43rd & 44th St. 1133 6th Ave. NY, NY	6-5-68	Cafco Blazeshield Type D	07913	NY336
Same as above	Same as above	6-13-68	Cafco Blazeshield Type D	08074	NY337
Same as above	Same as above	3-29-68	Cafco Blazeshield Type D	06831	NY338
Same as above	same as above	3-18-68	Cafco Blazeshield Type D	06633	NY339
Same as above	Same as above	5-21-68	Cafco Blazeshield Type D	07774	NY340

SALES RE[illegible]DS FOR

U. S. MINERAL PRODUCTS CO./COLV[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	New Office Bldg. 43rd St. & Ave. of Americas Between 43rd & 44th St. 1133 - 6th Ave. NY, NY	5-6-68	Cafco BlazeShield Type D	07500	NY 341
Same as above	Same as above	4-24-68	Cafco BlazeShield Type D	07295	NY 342
Same as above	Same as above	5-17-68	Cafco BlazeShield Type D	07701	NY 343
Same as above	Same as above	5-13-68	Cafco BlazeShield Type D	07619	NY 344
Same as above	Same as above	4-30-68	Cafco BlazeShield Type D	07366	NY 345

U. S. MINERAL PRODUCTS CO./COLUM ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	New Office Bldg. 43rd St. & Ave. of Americas Between 43rd & 44th St. 1133-6th Ave. N.Y., N.Y.	4-5-68	Cafco Blazeshield Type D	06948	NY 346
Same as above	Same as above	2-29-68	Cafco Blazeshield Type D	06392	NY 347
Same as above	Same as above	2-21-68	Cafco Blazeshield Type D	06238	NY 348
Same as above	Same as above	3-12-68	Cafco Blazeshield Type D	06556	NY 349
Same as above	Same as above	4-19-68	Cafco Blazeshield Type D	07213	NY 350

SALES RE[illegible]DS FOR
U. S. MINERAL PRODUCTS CO./COLU[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

71

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plasteri-) 370 Northern Blvd. Great Neck, L.I., NY	Office Bldg. 43rd St. & Ave. of Americas Between 43rd & 44th St. 1133 - 6th Ave. NY, NY	4-15-68	Cafco BlazeShield Type D	07168	NY 351
Same as above	Same as above	4-9-68	CafcoBlazeShield Type D	06987	NY352
Same as above	same as above	2-15-68	Cafco Blaze Shield Type D	06158	NY353
Same as above	Same as above	3-6-68	Cafco BlazeShield Type D	06469	NY 354
Same as above	Same as above	6-6-69	Cafco BlazeShield Type D	13777	NY355

SALES R[illegible]DS FOR

U. S. MINERAL PRODUCTS CO./COL[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY.	95 Wall St. New York, NY	5-23-69	Cafco Blaze Shield Type D	13553	NY356
Same as above	95 Wall St. & Water St. NY, NY	5-9-69	Cafco Blaze Shield Type D	13350	NY357
Same as above	95 Wall St. NY, NY	5-16-69	Cafco Blaze Shield Type D	13452	NY358
Same as above	Same as above	6-12-69	Cafco Blaze Shield Type D	13886	NY359
Same as above	Same as above	5-29-69	Cafco Blaze Shield Type D	13649	NY360

SALES RE[illegible]DS FOR
U. S. MINERAL PRODUCTS CO./COL[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	77 Water St. NY, NY (Manhattan)	6-5-69	Cafco Blaze Shield Type D	13776	NY361
same as above	same as above	6-10-69	Cafco Blaze Shield Type D	13844	NY362
same as above	same as above	5-19-69	Cafco Blaze Shield Type D	13487	NY363
same as above	same as above	5-21-69	Cafco Blaze Shield Type D	13520	NY364
same as above	same as above	5-26-69	Cafco Blaze Shield Type D	13580	NY365

SALES RE[illegible]DS FOR

U. S. MINERAL PRODUCTS CO./COI[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastring 370 Northern Blvd. Great Neck, L.I, NY	77 Water St. NY, NY (Manhattan)	5-12-69	Cafco Blazeshield Type D	13376	NY366
Same as above	Same as above	5-15-69	Cafco Blazeshield Type D	13408	NY367
Same as above	Same as above	5-8-69	Cafco Blazeshield Type D	13323	NY368
Same as above	Same as above	6-3-69	Cafco Blazeshield Type D	13691	NY369
Same as above	Same as above	5-28-69	Cafco Blazeshield Type D	13635	NY370

SALES RE[illegible]DS FOR
U. S. MINERAL PRODUCTS CO./COL[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	77 Water St. NY, NY (Manhattan)	6-13-69	Cafco BlazeShield Type D	13908	NY371
Same as above	Same as above	6-17-69	Cafco BlazeShield Type D	13925	NY372
Same as above	Jewish Blind Institute Off 65th St. & Central Parkway NY, NY	10-17-69	Cafco BlazeShield Type D	16269	NY373
Same as above	World Trade Center 136 Liberty St. & Westside Highway N.Y., NY	10-17-69	Cafco BlazeShield Type D	16284	NY374
Same as above	Same as above	10-20-69	Cafco BlazeShield Type D	16285	NY375

SALES RE[illegible]DS FOR

U. S. MINERAL PRODUCTS CO./COL[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	World Trade Center Liberty St. & Westside Highway NY, NY	10-24-?	Cafco BlazeShield Type D	16375	NY376
Same as above	Same as above	10-27-69	Cafco BlazeShield Type D	16507	NY377
Same as above	Same as above	10-31-69	Cafco BlazeShield Type D	16544	NY378
Same as above	Same as above	10-29-69	Cafco BlazeShield Type D	16545	NY379
Same as above	Same as above	11-5-69	Cafco BlazeShield Type D	16659	NY380

SALES RE[illegible]DS FOR
U. S. MINERAL PRODUCTS CO./COL[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario J DiBono Plastering 370 Northern Blvd. Great Neck, LI, NY	World Trade Center Liberty St. & Westside Highway NY, NY	11-20-69	Cafco Blazeshield Type D	16960	NY381
Same as above	Same as above	2-20-70	Mark II Coating Cafco Blazeshield Type DX	19381	NY382
Same as above	Same as above	4-17-70	Cafco Blazeshield Type DX	20399	NY383
Same as above	Same as above	4-17-70	Cafco Blazeshield Type DX	20356	NY384
Same as above	Same as above	4-15-70	Cafco Blazeshield Type DX Cafco Mark II Coati-	20354	NY385

U. S. MINERAL PRODUCTS CO./COL SALES RECORDS FOR ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plasteri-ng 370 Northern Blvd. Great Neck, L.I., NY	World Trade Center 136 Liberty & Westside Highway NY, NY	4-14-70	Cafco BlazeShield Type D-X	20353	NY386
Same as above	Same as above	4-9-70	Cafco BlazeShield Type D-X	20264	NY387
Same as above	Same as above	4-8-70	Cafco BlazeShield Type D-X	20241	NY388
Same as above	Same as above	3-26-70	Cafco BlazeShield Type D-X	20045	NY389
Same as above	Same as above	3-26-70	Cafco BlazeShield Type D-X	20031	NY390

SALES RE[illegible]OS FOR

U. S. MINERAL PRODUCTS CO./COL[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, LI, NY	World Trade Center 136 Liberty St. and Westside Highway NY, NY	2-25-70 Thru 3-26-70	Cafco Blaze-Shield Type D-X	19482, 19674, 19739, [illegible], 19894, 20044	NY 391 5 pages
Same as above	Same as above	3-13-70	Cafco Blaze Shield Type D	19809	NY 392
Same as above	McGraw-Hill job 7th Ave. Between 48th & 49th St. Entrance on 7th Ave. Side NY, NY	8-4-70 Thru 5-17-71	Cafco Blaze Shield Type D	22362 Thru 10752	NY 393 128 pages
Same as above	Bankers Trust Bldg. 280 Park Ave. Enter at 49th St. entrance NY, NY c/o Zigmund Sommers Gen'l. Contr.	12-28-67 Thru 5-13-68	Cafco Blaze Shield Type D	05113 Thru 07588	NY 394 120 pages
Same as above	1st Stop 280 Park Ave., Bankers Trust Bldg. NY, NY 2nd Stop	2-9-68	Cafco Blaze Shield Type D	05982	NY 395

SALES R[illegible]DS FOR

U. S. MINERAL PRODUCTS CO./COL[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

80

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	600-3rd Ave. & 39th St. NY, NY	4-13-70	Cafco BlazeShield Type D	20315	NY396
Same as above	111 Livingston St. Brooklyn, NY	5-29-70 thru 7-17-70	Cafco BlazeShield Type D	21156 thru 22013	NY397 (8 pages)
Same as above	c/o CO-OP City Service Road of New England Thruway Barton ⟷ exit Bldg. #6 NY, NY	6-10-69 and 6-17-69	Cafco BlazeShield Type D "	13855 and	NY398 (2 pages)
Same as above	c/o CO-OP City New England Thruway Boston Ave. Bronx, NY	10-19-70	Cafco BlazeShield Type D	23763	NY399
Same as above	437 Madison Ave. NY, NY	4-20-67 Thru 11-6-67	Type D	10474 Thru [illegible]	NY400 [illegible]

SALES RE[illegible]DS FOR
U. S. MINERAL PRODUCTS CO./COLI[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	C/o Co-op City Customers Trailer 2800 Baychester Ave. At Barton & Baychester Ave. Bronx, NY	4-16-70	Cafco Blaze Shield Type D	20377	NY401
Same as above	C/o Co-op City Baychester Ave. Bronx, NY C/o School Job.	8-10-70	Cafco Blaze Shield Type D	22409	NY402
Same as above	C/o Sigmund Sommers Const. Co. Third Ave. Between 39th and 40th NY, NY	3-31-70 and 4-3-70	Cafco Blaze Shield Type D "	20077 and 20128	NY403 (2 pages)
" Same as above	C/o New Office Building 43rd St. and 6th Ave. NY, NY	1-7-69	Cafco Blaze Shield Type D	11337	NY404
Same as above	C/o Meadowbrook Hospital Hempstead Turnpike & Carman Ave. Mineola, L.I.	4-16-69 Thru 11-5-69	Cafco Blaze Shield Type D	12881 Thru 16[illegible]7	NY405 13 more

SALES RE[illegible]DS FOR
U. S. MINERAL PRODUCTS CO./COLU[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

82

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	130 John St. Manhattan, NY one block from Water St.	4-23-69	Cafco Blazeshield Type D	13102	NY406
Same as above	Johns St. & Water St. Downtown Manhattan, Ny	4-16-69	Cafco Blazeshield Type D	12986	NY407
Same as above	Water St. - John & Pearl St. NY, NY Blitz Const. Co.	4-3-69	Cafco Blazeshield Type D	12776	NY408
Same as above	% Diesel job 75 Water St. Manhattan, NY	4-23-69	Cafco Blazeshield Type D	13078	NY409
E.T. Sampson & Co. Inc 409216 Boivin St. Ville LaSalle, P.Q., Canada	% IBM Exhibition Pavilion New York Worlds Fair 111th St. & Long Is. Expressway NY, NY	8-13-63 10-28-63 11-26-63	Cafco Heat Shield	08238 08387 08429	NY410 (3 Doors)

SALES RE[illegible]DS FOR
U. S. MINERAL PRODUCTS CO./COLU[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

83

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Fireproofing Contrs. 56 West 45th St. NY, NY 10036	c/o Channin Bldg. 39th St & Broadway NY, NY (1411 Broadway) (New Office Bldg.)	1-10-69 1-20-69 1-22-69 2-21-69	Cafco Blaze Shield Type D	11323 11733 11593 12034	NY411 (4 pages)
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	c/o World Trade Center Liberty St. & Westside Highway NY, NY	3-29-69 7-31-69 10-11-69 10-14-?	Cafco Blaze Shield Type D	12809 13708 16062 16172	NY412 (4 pages)
Allied Plastering Co 20 East 1st St. Mt. Vernon, NY	Security Mutual Ins Bldg. Grand Concourse & 149th St. Bronx, NY	6-03-65 6-03-65 6-15-65 6-24-65 6-11-65	Cafco Blaze Shield Type D " (6-11-65 invoice also lists Cafco Heat Shield)	06314 06315 06446 06577 06757	NY413 (5 pages)
Carney & DelGuidice Inc. 1845 Jasmine Ave. New Hyde Park, NY	Chevrolet Whse MacDonald Ave. Brooklyn, NY (MacDonald Ave. & Ave. I)	2-11-65 8-3-65	Cafco Blaze Shield Type D	07164 07785	NY414 (2 pages)
Colletti & Laquidara Inc 20 E. First St. Mt. Vernon, NY	St. Augustine Chapel 292 Henry St. (Deliver on Madison St) NY, NY	3-13-63 4-15-63	Cafco Blaze Shield Cafco Heat Shield	07956 08034	NY415 (2 pages)

SALES R[illegible]DS FOR
U. S. MINERAL PRODUCTS CO./COL[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

84

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Neff Lathing Co. Inc 274 Madison Ave. NY City, NY	Union Carbide Bldg. Between Madison & Park Ave. on 48th St ½ Block East of Madison Ave NY, NY c/o George A. Fuller	9-29-58 10-3-58 10-7-58 10-13-58 11-26-58	Cafco Spray, Standard Spraydon	02002 02028 02030 02036 02211	NY 416 (5 pages)
Allied Plastering Co Twenty East First St. Mt. Vernon, NY	Federal Office Bldg. NY, NY (Lafayette St.) accross from Gov't. Bldg)	6-24-66 thru 1-31-67, 10-6-67	Type D (Some are Type D-3, Type H, Cafco Patching Fiber)	11708 thru 44111, 02460	NY417 (40 pages)
Wm. Isherwood Inc. 56 West 45th St. NY, NY	Pan Am Cargo Bldg. Kennedy Airport NY, NY	1-06-66 2-21-66 2-28-66	Cafco BlazeShield Type D "	8209 10192 10274	NY418 (3 pages)
Colletti & Laquidara Inc 20 East First St. Mt. Vernon, NY	National Airlines Terminal Unit JF Kennedy Intl. Airport New York Intl. Airport Queens, L.I., NY John Lowry, Gen. Contr. (Between TWA & Trans-Caribbean Airlines)	10-22-68 3-4-69 3-29-69	Cafco BlazeShield Type D	09780 12237 12757	NY419 (3 pages)

U. S. MINERAL PRODUCTS CO./COL[illegible] SALES R[illegible]DS FOR ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Fireproofing Contrs. 56 West 45th St. NY, NY	American Airlines Inc. Kennedy Airport Turner Const. Co. Long Is., NY	11-13-69	Cafco Blazeshield Type D	16945	NY420
Allied Plastering Co. 20 E. 1st St. Mt. Vernon, NY	Columbia University Uris Hall 120th St. between Broadway & Amsterdam Ave. NY, NY Turner Const. Co.	6-28-63 12-26-63 3-3-64 4-29-64	Cafco Blazeshield and Patching Fiber	08164 08464 08580 08650	NY421 14 pages
same as above	1st Stop 15 Broad St. NY, NY Attn: Dan Breda 2nd Stop Uris Hall Columbia University 120th St., NY, NY	12-13-63	1st Stop Cafco Blazeshield 2nd Stop Cafco Blazeshield and Patching Fiber *SAYS NOT SHIPPED*	08463	NY422
Cuddihy & Hurbiser & Lamparter Inc. 250 West Main St. Montauk Ave. Bayshore, Long Is., N.Y.	c/o St. Aloysicious Church 350 Seneca Ave. Brooklyn, NY	9-29-67	Cafco Blazeshield Type D	02444	NY423
Allied Plastering Co 20 East First St. Mt. Vernon, NY	c/o PS 185 111th St. between 5th & Lennox NY, NY	7-15-66	Type D	11971	NY424

SALES R[illegible]DS FOR
U. S. MINERAL PRODUCTS CO./COL[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

86

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Allied Plastering Co. 20 East First St. Mt. Vernon, New Jersey	NY Coliseum 58th St. & Columbus Circle NY, NY	7-28-66 8-1-66	Type D Blazeshield	12053 12063	NY425 (2 pages)
Aristocraft Fibrespraying Co. 915 East 89th St. Brooklyn 36, NY	3 Holmes Lane Brooklyn, NY	8-6-64	Cafco Sound Shield	08953	NY426
Colletti & Laquidara Inc. 10 Fiske Place Mt. Vernon, NY	Social Security Office Bldg. Walton Ave & E 151st St. Bronx, NY	11-20-59	Cafco Heat Shield Cafco Blaze Shield "	03675	NY427
Ace Builders Supply Co. 33 St. & E. River Dr.	Dryden Hotel 150 E. 39th St. New York	8-12-60	Cominco #2	01430	NY428
E. T. Sampson & Co, Inc c/o 9216 Boivin St. Ville LaSalle, P.Q., Canada	New York Port Authority Heliport New York Worlds Fair New York	5-6-63 10-30-63 12-3-63	Cafco Blaze Shield & Blaze Shield Patching Fibre	08074 08392 08448	NY429 (3 pages)

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Henderson-Johnson Co, Inc 918 Canal St. Syracuse, NY	3M Building 1900 Mt. Read Blvd. Rochester, NY c/o Turner Const. Co.	12-8-67	Cafco Patching Fiber	04056	NY430
Same as above	c/o A.W. Hopeman & Sons, Co. St. Mary's Hospital Rochester, NY	7-10-64	Cafco Blaze Shield Cafco Mat Shield	08894	NY431
Sprayed Fireproofing Contrs. 56 West 45th St. NY, NY	IBM Bldg. Faculty Complex Bldg. 133 Westchester Ave. White Plains, NY	7-29-68	Cafco Mat Shield "	08738	NY432
Same as above	RH Macy Queens Blvd. Rego Park Queens, NY	3-23-65	Cafco Blaze Shield - Type D	05416	NY433
Same as above	Travelers Insurance Pavilion New York Worlds Fair NY, NY	2-20-64	Cafco Sound Shield	08558	NY434
Terminal S. Kearny, NJ	Tompkins Tidewater Terminal S. Kearny, N.J.		and Stop Cominco #1 & #2	(03747)	

U. S. MINERAL PRODUCTS CO./COLU ACOUSTICS AND FIREPROOFING CO.

STATE: NY

89

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Party Const. Co. Inc. 1218 Steuben St. Utica, NY	c/o Robert Potter Rte #11 Cicero, NY	10-20-67	Cafco that Shield Cafco Type "H"	01738	NY440
Mario & DiBono Plastering 370 Northern Blvd. Great Neck, L.I., NY	77 Water St. NY, NY	5-6-69 4-29-69	Cafco BlazeShield Type D	13264 13156	NY441
Lee Jerman	c/o Knudsen Assoc. 4014 New Court Ave. Syracuse, NY	6-28-63	Cominco Monoply Insulating Cement	17121	NY442
Henderson-Johnson Co. Inc. 918 Canal St. Syracuse, NY	Robert F. Hyland & Sons Rochester, NY	7-27-66	Type D BlazeShield	12197	NY443
Mario & DiBono Plastering 370 Northern Blvd. Great Neck L.I., NY	140 Broadway NY, NY	10-3-66	Patching Fiber	41251	NY444

U. S. MINERAL PRODUCTS CO./COLUM ... FOR ACOUSTICS AND FIREPROOFING CO.

STATE: NY

9D

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Johns-Manville International Corp. 22 East 40th St. NY, NY	Same (care to the attention of Mr. August Pocius 8th Floor)	7-14-64 10-6-64 6-26-65	Cafco Power Shield J spray (Johns Manville J spray) (Standard samples J spray)	08875 09158 6454	NY445 (3 pages)
Johns-Manville Sales Corp. 22 East 40th St. NY, NY	E. J. Brandt 50-20-25th St. Long Island City, NY	9-23-66	Sample J-Spray	41035	NY446
Johns-Manville Sales Corp. 560 South 3rd Ave Mt. Vernon, NY	Same	9-21-67	J spray	10472	NY447
JM International 22 East 40th St. NY 16, NY	Markings Schneider Winterthur Via Antwerp	3-17-65	Cafco Blaze Shield Cafco Blaze Shield Type D Cafco Sound Shield Cafco Sound Shield 85 Power Shield	5329	NY448
			Asbestos Cement Cafco Adhesive		

SALES RECORDS FOR

U. S. MINERAL PRODUCTS CO./COLUMBIA ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
TM International Corp. 22 East 40th St. NY, NY	C/o S.S. American Traveler 59 North River NY, NY	11-29-66	Cafco Power Shield	42440	NY449
Same as above	C/o Costa Lines S.S. Maria Costa Pier #5, Port Authority Brooklyn, NY	10-27-66	Cafco BlazeShield Type D	41387	NY450
Same as above	will advise	1-30-67	Cafco BlazeShield Type D "	43851	NY451
Empire Ace Insulation Mfg. Co. 8000 Cooper Ave. Glendale, LI, NY or 1 Cozine Ave. Brooklyn, NY	Some go to Same Others to ①451 ? Ave Jersey City, N.J. ②Attn Mr. Harold Faske in Cozine Ave. ⑤ Con Edison 134th St. & Locust Ave. Bronx, NY ⑭ Con Ed.	3-21-61 Thru 4-11-69 ⑤ Con Edison Brooklyn, NY	Ace-Tite Cominco Cominco Loose Wool. Cominco #1 Cominco Monodry Cement Stencilled Ace Power Cement	04262 Thru 12930	NY452 (31 pages)

SALES RECORDS FOR
U. S. MINERAL PRODUCTS CO./COLUMBIA ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Empire Acc Insulation Mfg. 1 Cozine Ave. Brooklyn, NY	National Asbestos Co 6 Liberty St. Hawthorne N	6-07-65	Cominco Monoply Cement Stencilled Acc Power Cement	06313	NY453
Consolidated Edison Co. of NY, Inc. 4 Irving Place NY, NY	Con. Edison Co. 1 Hudson Ave. Brooklyn, NY (c/o Mr. Ray Shaw, Maint. Dept. or Mr. Hoburg, Storekeeper)	9-1-67 10-9-68 4-15-69 4-28-69	Cafco Power Shield	01734 09821 12896 13083	NY454 (4 pages)
Same as above	Waterside Plant, Unit #13 708 First Ave. NY, NY Attn: Mr. George Kraus	12-7-67	Cafco Power Shield "	04012	NY455
Same as above	Books Only Corrects invoice #05062	1-4-68	Cafco Power Shield	05376	NY456
Same as above	Store Room #27 134 Marshal St. Brooklyn, NY Attn: Mr. Dennis	2-13-68	Cafco Power Shield	06105	NY457

SALES IN ... FOR
U. S. MINERAL PRODUCTS CO./COLUM ... ACOUSTICS AND FIREPROOFING CO.

STATE: NY

93

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Consolidated Edison Co. of NY, Inc. 4 Irving Place NY, NY	T. Denver Astoria Station Major Mtc E or Storekeeper 20th Ave. & 21st St. Long Is. City, NY	5-3-68 5-8-68 4-15-69	Cafco Powr Shield	07417 07554 12864	NY458 (3 pages)
Same as above	1st Stop East River Station 14th St. & East River Dr. NY, NY Attn: Mr. T. Kautto 2nd Stop Waterside Station 674 First Ave. NY, NY	5-10-68	1st Stop Cafco Powr Shield 2nd Stop Cafco Powr Shield	07525	NY459
Same as above	850 - 12th Ave NY City, NY Attn: Mr. Hesselman	6-5-68	Cafco Powr Shield "	07903	NY460
Same as above	Con Edison Co. 14th St. & East River Dr. NY, NY Attn: T. Denver	11-15-68	Cafco Powr Shield	10634	NY461
Same as above	Hell-Gate Generator Station 134th & Locust Ave. Bronx, NY Attn: Mr. T. Kautto	1-31-69 2-21-69 2-21-69	Cafco Powr Shield	11783 11853 12075	NY462 (3 pages

SALES RE[illegible]S FOR
U. S. MINERAL PRODUCTS CO./COLUM[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

94

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Consolidated-Edison Co of NY, Inc. 4 Irving Place NY, NY	1st Stop Con-Edison Co. 59th St. Station 850-12th Ave. NY, NY Attn: Mr. C. Troccoli 2nd Stop Con-Edison Co. Storekeepers 90th Ave. & 21st St. Astoria, NY	4-21-69	1st Stop Cafco Power Shield 2nd Stop Cafco Power Shield	13018	NY463
Con Edison Co. of NY 4 Irving Place NY 3, NY	Con Edison Co. of NY 708 1st Ave. NY, NY Attn: Storekeepers	7-30-58 thru 6-5-64	Cominco	03276 thru 24258	NY464 (43 pages)
Same as above	Con Edison Co. of NY 416 East 36th St. NY City, NY	8-22-58 thru 3-13-62	Cominco "	03562 08937	NY465 (14 pages)
Same as above	1st Stop 708 1st Ave. NY City, NY 2nd Stop 416 East 36th St. NY City, NY	5-10-61	Cominco #1	04779	NY466
Same as above	Consolidated Edison of NY 4 Irving Place NY 8, NY	6-22-61	Cominco #1	05350	NY467

U. S. MINERAL PRODUCTS CO./COLUM[illegible] FOR ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Consolidated Edison Co. 4 Irving Place NY 9, NY	20th Ave. & 21st St. New Warehouse #136 Astoria, L.I., NY	3-18-64	Cominco All-Purpose Ins. Cement	23356	NY468
Con Edison Astoria Plant 20th Ave. & 21st St. Astoria, L.I., NY	Same-New Warehouse #136	4-16-64 5-14-64 6-9-64	Cominco All-Purpose Cement	23612 23916 24276	NY469 (3 pages)
Slattery Contracting Co. 46-36 54th Road Maspeth 78, L.I., NY	40 Con Edison Excavation Work 69th St. & 3rd Ave. NY City, NY	9-16-60	Cominco #1 "	01860	NY470
Slatting Contracting Co. Same address as above	40 Con Edison Excavation Work 66th St. & 3rd Ave. NY City, NY	8-12-60	Cominco #1	01491	NY471
Robert A. Krasby 39 W. 19th St. NY City, NY	Pickup Robert Levine	5-31-60	Cominco # 2	12310	NY472

SALES RECORDS FOR
U. S. MINERAL PRODUCTS CO./COLUMBIA ACOUSTICS AND FIREPROOFING CO.

STATE: NY

96

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Robt. A. Krasby Co 39-149 West 19th St. NY 11, NY	Same	8-31-64 1-18-65 3-08-65 5-26-65	Cominco	24961 04582 05289 6266	NY473 ~~24961~~ (4 pages)
Robert A. Krasby Co. 721 No. State St. Syracuse, NY	(our says Attn: Carmine Angotti) Same	10-1-63 6-22-64 8-5-64 8-12-64 11-06-64	Cominco Mono-Ply & Cominco All Purpose	20859 24326 24764 24733 25767	NY474 (5 pages)
Robert A. Krasby Co. 58 No. Manning Blvd. Albany, NY	Same Attn: Mr. Frederick (First letter unknown)	11-19-63	Cominco Mono-Ply & Cominco All Purpose	21661	NY475
Robt. A. Krasby Co. 141 West 19th St. NY, NY	1st Stop Consolidated Edison Warehouse #136 Astoria Plant 20th Ave & 21st St. Astoria, LI, NY 2nd Stop Robt. A Krasby Co. 141 W. 19th St. NY, NY	6-29-64	1st Stop Cominco All-Purpose 2nd Stop Cominco All Purpose Cominco Monoply	28870	NY476
Robt. A. Krasby Co. 139-149 West 19th St. NY 11, NY	Con-Edison 20th Ave. & 21st St. Astoria Plant, LI, NY Bldg #136	8-14-64 6-19-65 8-04-65	Cominco All Purpose	24765 06437 07077	NY477 (4 pages)

SALES RE[illegible]S FOR
U. S. MINERAL PRODUCTS CO./COLUM[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

97

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Tri-City Insulation Co., Inc 35 Broadway Menands, NY	(out to J. Derrico) Suburb of Albany, NY	6-24-64 10-7-64	Cominco Mono-Ply Cominco All-Purpose Cominco Insulation (new formulation)	23988 25401	NY478 (2 pages)
Tri-City Insulation Co. 35 North Broadway Albany 4, NY	same	3-11-64	Comico All-Purpose Comico Mono-Ply	23262(?)	NY479
Calvin T. Pickersgill JR Bldrs Supply Albany, NY		3-27-65	Comico Mono-Ply "	5414	NY480
Emmett W. Davis Inc 195 Mt. Hope Ave. Rochester, NY		12-31-64 4-1-65	Comico Mono-Ply Comico All-Purpose Asbestos Cement	4464 05529	NY481 (2 pages)
Rochester Ind. Insulation 1631 Dewey Ave. Rochester, NY	Attn Mr. S. Stachelck	11-10-64	Comico Monoply	4064	NY482

SALES RE[illegible]S FOR
U. S. MINERAL PRODUCTS CO./COLUM[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

98

[illegible]LD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
[illegible]illiam Summerhays Sons Corp. [illegible]20 Clinton Ave. South Rochester, NY	Attn: Mr. Larry Youtzy	5-8-64	Cominco All-Purpose Cominco Mono-Ply Loose Wool	23632	NY483
[illegible]astern Insulation Specialty Co. [illegible]32 Salt Point Rd. [illegible]ughkeepsie, NY	c/o Cherry Ridge Farms Route #23 Hudson, NY	10-12-64	Cominco All-Purpose	25621	NY484
[illegible]&M Home Insulation Co. [illegible]568 Broad St. [illegible]. Bellmore, L.I., NY	c/o 2470 N. Jerusalem Rd. 1 block east of New Bridge Rd. N. Bellmore, L.I., NY	3-31-60	Cominco Batts	11744	NY485
[illegible]yracuse Insulation Distributors, Inc. [illegible]ld Liverpool Rd. Liverpool, N.Y	same	10-1-63	Cominco	20858	NY486

(The Following Are Invoices with Plastering Companies but No Jobsites)

SALES RE[illegible]S FOR
U. S. MINERAL PRODUCTS CO./COLU[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

99

OLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Allied Acoustical Co. 2141 Southern Blvd. Bronx, NY between 181-182 St or [illegible] Heathcote Ave., Bronx, NY		9-29-60 9-30-60 9-30-60	Cafco Sound Shield	04755 04821 04820	NY487 (3 pages)
Aristocraft Fiberspraying Co. 915 East 89th St. Brooklyn, NY		1-17-66 Thru 2-27-69	Cafco Heat Shield Cafco Blaze Shield Type D Cafco Blaze Shield Standard Type H	9911 Thru 12121	NY488 (22 pages)
Bruderle & Lamparter 4 Burns St. Hicksville, NY		1-14-63 9-9-63 8-11-65	Cafco Blazeshield Cafco Blazeshield Patching Fiber "	07889 08289 0712?	NY489 (3 pages)
Carney & Del Guidice 1845 Jasmine Ave. New Hyde Park, NY		11-18-63 Thru 1-07-65	Cafco Blaze Shield Cafco Sound Shield Cafco Blaze Shield Type D	11-18-63 Thru 04536	NY490 (9 pages)
Colletti & Laguidara Inc 10 Fiske Place Mt. Vernon, NY		12-6-62 12-20-62 1-28-63 2-17-69 [illegible]	Heat Shield Cafco Blaze Shield Patching Fiber	07814 07832 07904 12045	NY491 (5 pages

U. S. MINERAL PRODUCTS CO./COLU' ACOUSTICS AND FIREPROOFING CO.

STATE: NY

100

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Collum Acoustical Corp. of ? 616 Delaware Ave. Albany, NY		11-21-63	Cafco Blaze Shield	08423	NY492
Suddihy, Huebner, & Lamparter, Inc. 296 Merrit Ave. Wyandanach, L.I., NY		3-18-68	Cafco Patching Fiber	06554	NY493
FOR DAVIS & FETCH Co. Look after Rochester Davis-Fetch Corp.					
Vergard Coatings Inc. 301 Portland Ave. Rochester, NY		11-29-68 12-26-68	Cafco BlazeShield Type D Cafco BlazeShield Standard Cafco BlazeShield Type H	10813 11242	NY494 (2 pages)
Mr. William Gargano 122 Jennings St. Endicott, NY		11-05-64 2-5-68 1-3-69	Cafco Sound Shield Cafco Patching Fiber	04012 05901 11298	NY495 (3 pages)
Henderson-Johnson Co. Inc. 918 Canal St. Syracuse, NY		1-11-61 Thru 4-16-71	Cafco Heat Shield Cafco BlazeShield Type D Cafco BlazeShield Patching Fiber Blazeshield Standard	5077 Thru 10080	NY496 (9 pages)

U. S. MINERAL PRODUCTS CO./COLUM[illegible] ACOUSTICS AND FIREPROOFING CO.

STATE: NY

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Hudson Plastering Co. 200 Sheridan Ave. Buffalo, NY		10-14-66 4-5-67 7-24-68 4-25-69 5-22-69 11-6-70	Blazeshield Type D Heat Shield Type H (Blaze Shield)	41540 10131 08613 13055 13459 24129	NY497 (6 pages)
William Isherwood Inc. 56 West 45th St. NY, NY		7-12-66	Patching Fiber	11861	NY498
Mario DiBono Plastering Co. 570 Northern Blvd Great Neck, L.I., NY		7-7-66	Type D (CafcoBlaze) "	11880	NY499 (2 pages)
New York Aircrafts Inc. 280 Madison Ave NY 16, NY	Warehouse 5102 2nd St. East River & Borden Ave. L.I. City, NY	12-2-60 3-23-64 3-31-67	Cafco Blaze Shield Cafco Sound-Shield Type II	04994 08605 10046	NY 500 (3 pages)
Richard Pepe (?) 780 Garden St. Bronx, NY		6-18-62	Cafco Sound Shield	07448	NY501

U. S. MINERAL PRODUCTS CO./COLUI SALES M PS FOR ACOUSTICS AND FIREPROOFING CO.

STATE: NY

102

OLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Richter Insulation & Sales Co. 241 Center Ave. Lamaronick, NY		11-7-57 Thru 9-21-62	Cafco Spray Standard Cafco Spray Type 1 Cafco Sound Shield Cafco Heat Shield	01008 Thru 07660	NY502 (26 pages)
Right Finishing Co. 14 St. John St. Monticello, NY (John Bogden		11-22-57 Thru 7-23-70	Cafco Spray Type 1 Cafco Spray Standard Cafco Soundshield Blaze Shield Heat Sound Shield (Special)	01083 Thru 21994	NY503 (81 pages)
			Cafco Sound Shield 85 Blaze Shield Type H Blaze Shield Type D Blaze Shield Type D (C/F Fibre)		
Rochester Davis-Fetch 22 Right St. Rochester 11, NY	Corp.	7-2-58	Cafco Spray Type 1	01717	NY504
Davis-Fetch & Co. Inc 236 Scajaquada St. Buffalo 15, NY		7-7-58 10-1-58	Cafco Spray Type 1	01732 02004	NY505 (2 pages)

SALES REPORTS FOR

U. S. MINERAL PRODUCTS CO./COLUMBIA ACOUSTICS AND FIREPROOFING CO.

STATE: NY

103

SOLD TO	SHIP TO	INVOICE DATE	PRODUCT DESCRIPTION	INVOICE NUMBER	COMMENTS
Sprayed Fireproofing Contrs 249 East 35th St. NY, NY		10-7-64 Thru 5-12-71	Cafco Heat Shield Cafco Blaze Shield Type D Blaze Shield Patching Fiber Type H (Blaze Shield)	09172 Thru 10668	NY506 (32 pages)
Turner Const. Co. 1999 Mt. Road Blvd. Rochester, NY		9-19-68 11-25-68	Cafco Patching Fiber	09545 10599	NY507 (2 pages)

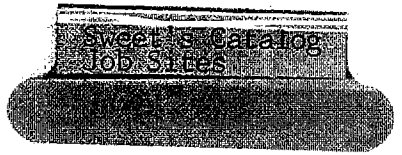
U.S. Gypsum Mineral Lics Agreements

State: New York

Plastering Company	Products in Agreement	Date	Document Number	Misc./Comments
Earl Paint Corporation ? Gen ? Utica, New York (?) County of Oneida (might have been inc. in Fla.)	Cafco Blaze Shield Sound Shield Heat Shield	9-15-61	License NY 1	Alabama. *This N.Y. address was crossed out & put Fla. address.

NEW YORK AND NEW JERSEY
JOB SITES FROM WALLS & CEILINGS/ PLASTERING INDUSTRIES MAGAZINES

Job	Product	Issue
Chase Manhattan Bank, NYC	Limpet Sprayed Asbestos	August 1959
ITT Building, NYC	Zonolite Monokote	October 1960
Manufacturers & Traders Trust Co., Buffalo, NY	National Gypsum Materials	July 1965
New York Penn Station	Monokote	July 1966
Madison Square Garden		July 1966
Campus Center Elmira College Elmira, NY	Perfolyte (Gold Bond)	August 1966
Four Corners Office Bldg. Rochester, NY	Fireshield	October 1966
World Trade Center, NY	Cafco (p. 37)	December 1968
Prudential Plaza Building Newark, NJ	Zonolite Aggregate USG Plaster	September 1959
Senior High School Vineland, NJ	Kilnoise	July 1966
Youth Reception & Correction Center Yordville, NJ	Kilnoise	August 1968
Newark Airport	Monokote	October 1970


Sweet's Catalog
Job Sites

NEW JERSEY JOB SITES FROM SWEETS CATALOGS

BUILDING	LOCATION	PRODUCT	MANUFACTURER	REFERENCE
Barnert Memorial Hospital Addition	Peterson, NJ	Asbestospray	Asbestos Products Manufacturing Company	Sweet's 1966 thru 1971
McGuire Air Force Base	New Jersey	Asbestospray	Asbestos Manufacturing Company	Sweet's 1966 thru 1971
American Cyanamid Office Bldg.	Wayne, NJ	Cafco Blazeshield	Columbia Acoustics & Fireproofing Co.	Sweet's 1963, 1964, 1965-1968
Federal Office Buildings	Newark, NJ	Cafco Blazeshield	United States Mineral Co.	Sweet's 1970
Governor Morris Hotel	Morristown, NJ	Cafco Soundshield "85"	U.S. Mineral Co.	Sweet's 1967, 1968, 1971
Senior Citizens Housing	Iselin, NJ	Cafco Soundshield "85"	U.S. Mineral Co.	Sweet's 1967, 1968-1972
B'nai Israel Synagogue	Millburn, NJ	Hushkote	Cleveland Gypsum Co.	Sweet's 1953
RKO Theatre	Trenton, NJ	Kalite	Certainteed	Sweet's 1938
Auditorium of Washington Irving School	Teaneck, NJ	Kilnoise	Kelley Island Lime & Transport	Sweet's 1943
Egyptian Lacquer Co.	South Kearny, NJ	Kilnoise	Kelley & Island Lime & Transport	Sweet's 1947
Pleasantdale School	West Orange, NJ	Kilnoise	Kelley Island Lime & Transport	Sweet's 1954

New Jersey State Hospital	Ancora	Kilnoise	Tiger Brands/ Basic Inc.	Sweet's 1959
St. Frances Hospital	Jersey City	Kilnoise	Basic	Sweet's 1962
Lord & Taylor	Milburn, NJ	Kilnoise	Basic, Inc.	Sweet's 1962
Princeton University Swimming Pool	Princeton, NJ	Kilnoise	Basic, Inc.	Sweet's 1962
Bristol-Myers Co.	Hillside, NJ	Sprayed Limpet Asbestos	Keasby & Mattison	Sweet's 1959
Dupont (Chamber Works)	Deepwater, NJ	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
Woodbridge High School	Woodbridge, NJ	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
Tenacre Foundation	Princeton, NJ	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
Radio Corp. of America	Harrison, NJ	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
Federal Telephone & Radio Corp.	Clifton, NJ	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
Passaic Valley Regional H.S.	Little Falls, NJ	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
McGuire Air Force Base	Ft. Dix, NJ	Sprayed Limpet Asbestos	Keasby & Mattison	1957 Brochure, Branham Files
Convention Hall	Asbury Park, NJ	Macoustic	National Gypsum	Sweet's 1935
Camden Safe	Camden, NJ	Macoustic	National Gypsum	Sweet's 1935

Deposit Co.				
Holy Name of Jesus Church	East Orange, NJ	Macoustic	National Gypsum	Sweet's 1935
Bamberger Store	Newark, NJ	Macoustic	National Gypsum	Sweet's 1935
Post Office	Newark, NJ	Macoustic	National Gypsum	Sweet's 1935
Casino	Asbury Park, NJ	Macoustic	Macoustic Engineering Co.	Sweet's 1930
Ocean City Theatre	Ocean City, NJ	Macoustic	Macoustic Engineering Co.	Sweet's 1930
Central H.S.	Trenton, NJ	Macoustic	Macoustic Engineering Co.	Brochure from Sweets (no date) located in Branham Files
Wright Aeronautical Corporation	Paterson, NJ	Softone Acoustical Units and Plaster	Amerian Franklin-Olean Tile Co.	Sweet's 1945
Wright Aeronautical Corp.	Woodbridge, NJ	Softone Acoustical Units and Plaster	American Franklin-Olean Tile Co.	Sweet's 1945
Astor Theatre	Atlantic City, NJ	Softone Acoustical Units and Plaster	American Franklin-Olean Tile Co.	Sweet's 1945
Community Theater	Morristown, NJ	Stucoustic	California Stucco Products Company	Sweet's 1939
High School	Summit, NJ	Stucoustic	California Stucco Products Company	Sweet's 1939
Wright Aero-nautical Corp.	Paterson, NJ	Softone Acoustical Units & Plaster	American Franklin-Olean Tile Co.	Sweet's 1945

Wright Aero-nautical Corp.	Woodbridge, NJ	Softone Acoustical Units & Plaster	American Franklin-Olean Tile Co.	Sweet's 1945
Astor Theatre	Atlantic City, NJ	Softone Acoustical Units & Plaster	American Franklin-Olean Tile Co.	Sweet's 1945
Standard Oil Company of New Jersey	NJ	Spraykote	Spray Insulation Inc.	Sweet's 1947
Reynolds Metals Co.	Harrison, NJ	Spraykote	Spray Insulation Inc.	Sweet's 1947
General Motors	Bloomfield, NJ	Spraykote	Spray Insulation Inc.	Sweet's 1947
Fairlawn Schools	Fairlawn, NJ	Spraykote	Spray Insulation Inc.	Sweet's 1947
Kearny H.S.	Kearny, NJ	Spraykote	Spray Insulation Inc.	Sweet's 1947
Passaic Herald News	Passaic, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1947
Hercules Co.	Jersey City, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1947
Lakehurst Naval Terminal	Lakehurst, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1947
Overlook Hospital	New Jersey	Spraykote	Sprayed Insulation Inc.	Sweet's 1947
Passaic Herald News	Passaic, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1947
Montgomery Presbyterian	Belleville, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1947

Church				
Ciba Pharmaceutical Co.	Summit, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Duralac Chemical Co.	Newark, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Chris-Kraft Instrument Co.	Union, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Ballentine & Sons	Newark, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
The Hercules Company	Jersey City, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Wilkata Folding Box Company	Kearney, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Photo Products Division of DuPont de Nemours Co.	Parlin, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Naval Reserve Armory	Clifton, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Naval Reserve Armory	Elizabeth, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Setan Hall College Urban Division	Newark, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Station WCTC Chanticleer Broadcasting Co.	New Brunswick, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1949

Television AM & FM Radio Station WATV	Newark, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Western Electric Co.	Kearny, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Paper Mill Playhouse	Millburn, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Herald News Offices	Passaic, NJ	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Duro Test Corp	North Bergen, NJ	Softone Acoustical Plaster	American Acoustics, Inc.	Sweet's 1947
WATV Television Studio	Newark, NJ	Spraycraft	Sprayed Insulation, Inc.	Sweet's 1953
Public Service Corp.	Newark, NJ	Spraycraft	Sprayed Insulation, Inc.	Sweet's 1953
Standard Oil Co. of N. J.	Bayway, NJ	Spraycraft	Sprayed Insulation, Inc.	Sweet's 1953
E. I. DuPont de Nemours Co.	Parlen, NJ	Spraycraft	Sprayed Insulation, Inc.	Sweet's 1953
Ciba Pharma-ceutical Co.	Summit, NJ	Spraycraft	Sprayed Insulation, Inc.	Sweet's 1953
Sherwin-Williams Paint Co.	Newark, NJ	Spraycraft	Sprayed Insulation, Inc.	Sweet's 1953
YMCA Swimming Pool Ceiling	Asbury Park, NJ	Spraydon	Sprayon Insulation & Acoustics, Inc.	Sweet's 1954
Presbyterian Church	Jamesburg, NJ	Spraycraft	Installed by: "Aaer-Sprayed" Insulations, Inc.	Sweet's 1959

Professional Office Building	Summit, NJ	Spraycraft	Installed by: "Aaer-Sprayed" Insulations, Inc.	Sweet's 1959
St. Joseph Parochial School	Damarus, NJ	Spraycraft	Installed by: "Aaer-Sprayed" Insulations, Inc.	Sweet's 1959
Lyndhurst, NJ High School	Lyndhurst, NJ	Spraydon	Sprayon Insulation & Acoustics, Inc.	Sweet's 1960
Swimming Pool Fairmont Hotel	Lakewood, NJ	Spraycraft	Smith & Kanzler Corp.	Sweet's 1962
Grand Ballroom Military Park Hotel	Newark, NJ	Spraycraft	Smith & Kanzler Corp.	Sweet's 1962
Standard Oil Company	New Jersey	Spraydon	Sprayon Research Corp.	Sweet's 1973

NEW YORK JOB SITES FROM SWEETS CATALOGS

BUILDING	LOCATION	PRODUCT	MANUFACTURER	REFERENCE
Lever House	New York, NY	Zonolite Plaster	W. R. Grace	Sweet's 1957 Fireproofing
Arrival Building New York International Airport	NY	Zonolite Plaster	W. R. Grace	Sweet's 1960 Fireproofing
Ramapo Trust Company	Spring Valley, New York	Asbestospray	Asbestos Products Manufacturing Company	Sweet's 1953
TWA Arrival Building	(J.F.K.) Idlewild International Airport, NY	Asbestospray	Asbestos Products Manufacturing Company	Sweet's 1963 thru 1971
Library Building College of the City of N.Y.	New York, NY	Asbestospray	Asbestos Products Manufacturing Company	Sweet's 1964 thru 1971
State Capital Campus Site State of N.Y. (bldg #'s 4, 5 & 8)	Albany, NY	Asbestospray	Asbestos Products Manufacturing Company	Sweet's 1964 thru 1971
Westside H.S. Bd. of Ed.	New York, NY	Asbestospray	Asbestos Products Manufacturing Company	Sweet's 1966 thru 1971
St. Lukes Hosp. Women's Hospital Division	New York, NY	Asbestospray	Asbestos Products Manufacturing Company	Sweet's 1966 thru 1971
Union Carbide Building	New York City, NY	Cafco Blazeshield	Columbia Acoustics & Fireproofing Co.	Sweet's 1960, 1962, 1963, 1964 1965, 1968

			(U.S. Mineral)	
Hanover Bank Building	New York City	Cafco Blazeshield	Columbia Acoustics & Fireproofing Co.	Sweet's 1962, 1963, 1964, 1965-1968
Marine Inland Grace Trust Co. Bldg.	New York City	Cafco Blazeshield	Columbia Acoustics & Fireproofing Co.	Sweet's 1967
Marine Midland Building	New York City	Cafco Blazeshield		Sweet's 1968
140 Broadway Building	New York City	Cafco Blazeshield	United States Mineral Co.	Sweet's 1970
Fordham University	New York City	Cafco Blazeshield	United States Mineral Co.	Sweet's 1970
Federal Office Buildings	New York City, NY	Cafco Blazeshield	United States Mineral Co.	Sweet's 1970
Adams Central High School	Syracuse, NY	Cafco Soundshield "85"	U.S. Mineral Co.	Sweet's 1966, 1967, 1968, 1971
Camp for the Blind	Spring Valley, NY	Cafco Sound shield "85"	U.S. Mineral Co.	Sweet's 1967, 1968, 1971, 1972
Junior H.S.	South Orangetown, NY	Cafco Soundshield "85"	U.S. Mineral Co.	Sweet's 1967, 1968-1972
Cortland State College	Cortland, NY	Cafco Soundshield "85"	U.S. Mineral Co.	Sweet's 1967 1968-1972
American Museum of Natural History	New York, NY	Cafco Soundshield "85"	U.S. Mineral Co.	Sweet's 1972 & 1971
New School of Social Research	New York City	Calicel Acoustical	The Calicel Company	Sweet's 1934

Restaurant		Plaster		
International Music hall Rockefeller Center Radio City Section	New York, NY	Kalite	Certainteed	Sweet's 1938
New Criterion Theatre	New York, NY	Kalite	Certainteed	Sweet's 1938
Federal Courthouse Bldg.	New York City	Kalite	Certainteed	Sweet's 1938
Bankers Trust Building	New York, NY	Kalite	Certainteed	Sweet's 1938
Continental Bank Buiding	New York, NY	Kalite	Certainteed	Sweet's 1938
Loew's Blvd. Theatre	New York, NY	Kalite	Certainteed	Sweet's 1938
Metropolitan Life Insurance Bldg.	New York, NY	Kalite	Certainteed	Sweet's 1938
Lincoln Bank Building	Brooklyn, NY	Kalite	Certainteed	Sweet's 1938
Radio Station WEBR	Buffalo, NY	Kalite	Certainteed	Sweet's 1938
Court Rooms Federal Ct. Bldg.	New York, NY	Kalite	Certainteed	Sweet's 1938
Ascot Theatre	New York, NY	Kalite	Certainteed	Sweet's 1938
Alteration to Vitaphone Studio of Warner Bros.	Brooklyn, NY	Kalite	Certainteed	Sweet's 1938

Studio				
Transmitter Building	WHN Astoria Long Island, NY	Kalite	Certainteed	Sweet's 1938
Fenimore Cooper School	East Chester, New York	Kalite	Certainteed	Sweet's 1938
New Criterion Theatre	New York, NY	Kalite	Certainteed	Sweet's 1938
Drydock Savings Bank	New York, NY	Kalite	Certainteed	Sweet's 1938
Federal Courthouse	Buffalo, NY	Kalite	Certainteed	Sweet's 1938
Drydock Savings Bank	New York, NY	Kalite	Certainteed	Sweet's 1939
Central Islip State Hospital Infirmary Bldg. #95	Central Islip, Long Island, NY	Kilnoise	Kelley Island Lime & Transport	Sweet's 1944
Public School #99	New York City	Kilnoise	Kelley Island Lime & Transport	Sweet's 1947
Immaculate Conception School	New York City	Kilnoise	Kelley Island Lime & Transport	Sweet's 1947
United Nations Conference Bldg.	New York	Kilnoise	Kelley Island Lime & Transport	Sweet's 1954
Teagle Hall Cornell Univ.	New York	Kilnoise	Tiger Brands/ Basic Inc.	Sweet's 1959
Misericordia Hospital	New York City	Kilnoise	Basic	Sweet's 1962

Fifth Ave. Synagogue	New York City	Kilnoise	Basic, Inc.	Sweet's 1962
U. N. Building	New York City	Kilnoise	Basic, Inc.	Sweet's 1962
School	East Aurora, NY	Kilnoise	Basic, Inc.	Sweet's 1962
Metropolitan Life Insurance	New York City	Kilnoise	Basic, Inc.	Sweet's 1962
New Rochelle YMCA Pool	New Rochelle, NY	Kilnoise	Basic, Inc.	Sweet's 1962
Cornell University Swimming Pool	New York	Kilnoise	Pfizer	Sweet's 1964
Deering-Milliken Building	New York City	Sprayed Limpet Asbestos	Keasby & Mattison	Sweet's 1959
Chase Manhattan Bank	New York City	Sprayed Limpet Asbestos	Keasby & Mattison	Sweet's 1960, 1962, 1963, 1964
Mohawk Manor	Buffalo, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
66th St. School	Niagra Falls, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
Airway Motel	Cheektowaga, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
Seaman's Bank Bldg.	New York, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
Towne House Hotel	Buffalo, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
Board of Educ. Admin. Bldg.	Niagara Falls, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files

Temple Emanuel	Great Neck, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
American Academy of Arts & Letters	New York, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
Merchants Midtown Bank	New York, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
F. H. McGraw & Co.	New York, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
Railway Express Co.	New York, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
Onodaga County Sanitorium	Syracuse, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
Horn & Hardart Restaurant	Flushing, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1956 Brochure, Branham Files
Deering-Milliken Bldg.	New York, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1957 Brochure, Branham Files
Roehrig Insut. Agency	Kenmore, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1957 Brochure, Branham Files
Continental Inn	Kenmore, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1957 Brochure, Branham Files
University of Buffalo	Buffalo, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1957 Brochure, Branham Files
M & T Bank	Buffalo, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1957 Brochure, Branham Files
Park	Snyder, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1957 Brochure, Branham Files

Greiner Bowling Alley	Cheektawaga, Ny	Sprayed Limpet Asbestos	Keasby & Mattison	1957 Brochure, Branham Files
Derrick Mfg. Co.	Cheektawaga, NY	Sprayed Limpet Asbestos	Keasby & Mattison	1957 Brochure, Branham Files
Bronx Magistrate Court	Brooklyn, NY	Macoustic	National Gypsum	Sweet's 1935
Grassland Hospital	Eastview, NY	Macoustic	National Gypsum	Sweet's 1935
First Presbyterian Church	New Rochelle, NY	Macoustic	National Gypsum	Sweet's 1935
City Bank Farmers Trust Co.	New York	Macoustic	National Gypsum	Sweet's 1935
Fordham University	New York	Macoustic	National Gypsum	Sweet's 1935
Junior League Club	New York	Macoustic	National Gypsum	Sweet's 1935
Clarence Mackay	New York	Macoustic	National Gypsum	Sweet's 1935
National Broadcasting Studio	New York	Macoustic	National Gypsum	Sweet's 1935
Salvation Army Building	New York	Macoustic	National Gypsum	Sweet's 1935
Second Church of Christ Scientist	Rochester, NY	Macoustic	National Gypsum	Sweet's 1935
General Electric Company	Schenectady, NY	Macoustic	National Gypsum	Sweet's 1935

Post Office	Albany, NY	Macoustic	National Gypsum	Sweet's 1935
Brooklyn Law School	Brooklyn, NY	Macoustic	Macoustic Engineering Co.	Sweet's 1930
Loew's Theatre	Brooklyn, NY	Macoustic	Macoustic Engineering Co.	Sweet's 1930
Paramount Theatre	Brooklyn, NY	Macoustic	Macoustic Engineering Co.	Sweet's 1930
National Broadcasting Co. Studios	New York, NY	Macoustic	Macoustic Engineering Co.	Sweet's 1930
Beverly School	New York, NY	Macoustic	Macoustic Engineering Co.	Sweet's 1930
Pitkin Theatre	Brooklyn, NY	Macoustic	Macoustic Engineering Co.	Brochure from Sweet's (no date) located in Branham Files
United Hospital	Port Chester, NY	Macoustic	Macoustic Engineering Co.	Brochure from Sweets (no date) located in Branham Files
State Teachers College	Bufffalo, NY	Macoustic	Macoustic Engineering Co.	Brochure from Sweets (no date) located in Branham Files
Paramount Theatre	Brooklyn, NY	Macoustic	Macoustic Engineering Co.	Brochure from Sweets (no date) located in Branham Files
Physics Bldg. Fordham Univ.	New York, NY	Macoustic	Macoustic Engineering Co.	Brochure from Sweets (no date)

				located in Branham Files
Public School #10	Brooklyn, NY	Macoustic	Macoustic Engineering Co.	Brochure from Sweets (no date) located in Branham Files
Earl W. Brydges Public Library	Niagra Falls, NY	Albi-Clad	Albi Manufacturing Corp.	Brochure produced by USG
Gulf & Western Plaza	New York, NY	Pyrospray	Keene Corp.	Sweet's 1971
United Nations General Assembly Bldg.	New York, NY	Thermacoustic	Sealtite Insulation Manufacturing Co.	Sweet's 1968 and 1969
110 William St. Building	New York, NY	Thermacoustic	Sealtite Insulation Manufacturing Co.	Sweet's 1968 and 1969
Curtiss-Wright Corp.	Buffalo, NY	Softone Acoustical Units and Plaster	American Franklin-Olean Tile Co.	Sweet's 1945
Kew Gardens Apartments	Long Island, NY	Spray-o-flake	Sprayo-Flake Co.	Sweet's 1932
First National Bank of New York	New York, NY	Stucoustic	California Stucco Products Company	Sweet's 1938
Union Club	New York	Stucoustic	California Stucco Products Company	Sweet's 1938
Academy of Medicine	New York	Stucoustic	California Stucco Products Company	Sweet's 1938
International	Times Square, NY	Stucoustic	California Stucco	Sweet's 1938

Casino			Products Company	
Queens County Courthouse	Jamaica, Long Island, NY	Stucoustic	California Stucco Products Company	Sweet's 1939
Cancer Hospital	New York	Stucoustic	California Stucco Products Company	Sweet's 1939
High School	Glen Cove Long Island, NY	Stucoustic	California Stucco Products Company	Sweet's 1939
New York Historical Museum	New York, NY	Stucoustic	California Stucco Products Company	Sweet's 1939
Public National Bank	New York, NY	Stucoustic	California Stucco Products Company	Sweet's 1939
Needle Trades H.S.	New York, NY	Stucoustic	California Stucco Products Company	Sweet's 1940
Assembly Hall New York State School	Wassaic, NY	Stucoustic	California Stucco Products Company	Sweet's 1940
Hospital for Joint Diseases	New York, NY	Stucoustic	California Stucco Products Company	Sweet's 1940
R.K.O. Theatre	W 23rd St. New York, NY	Stucoustic	California Stucco Products Company	Sweet's 1940
Museum of Modern Art	New York, NY	Stucoustic	California Stucco Products Company	Sweet's 1940
Nassau County Court House	Mineola Long Island, NY	Stucoustic	California Stucco Products Company	Sweet's 1941
Hunter College	New York, NY	Stucoustic	California Stucco Products Company	Sweet's 1941

Benjamin Franklin H.S.	New York, NY	Stucoustic	California Stucco Products Company	Sweet's 1942
Chemical National Bank	New York, NY	Stucoustic	California Stucco Products Company	Sweet's 1942
State Hospital	Deer Park Long Island, NY	Stucoustic	California Stucco Products Company	Sweet's 1942
Cardinal Hayes Memorial H.S.	New York, NY	Stucoustic	California Stucco Products Company	Sweet's 1942
Brooks Memorial Hospital	Dunkirk, NY	Softone Acoustical Units and Plaster	American Franklin-Olean Tile Co.	Sweet's 1945
Harlem Hospital	New York, NY	Softone Acoustical Units and Plaster	American Franklin-Olean Tile Co.	Sweet's 1945
Curtiss-Wright Corp.	Buffalo, NY	Softone Acoustical Units & Plaster	American Franklin-Olean Tile Co.	Sweet's 1945
Brooks Memorial Hospital	Dunkirk, NY	Softone Acoustical Units & Plaster	American Franklin-Olean Tile Co.	Sweet's 1945
Harlem Hospital	New York, NY	Softone Acoustical Units & Plaster	American Franklin-Olean Tile Co.	Sweet's 1945
St. George Hotel (Swimming Pool)	Brooklyn, NY	Spraykote	Spray Insulation Inc.	Sweet's 1947
Gilmore Steak House	New York, NY	Spraykote	Spray Insulation Inc.	Sweet's 1947
New York State Racing Commission	New York, NY	Spraykote	Spray Insulation Inc.	Sweet's 1947
Mason General Hospital	Deer Park, Long Island, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1947

Department of Justice	Ellis Island, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1947
Miller Field	Long Island, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1947
New York Housing Authority	New York, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1947
Hempstead Elks Club	Hempstead Long Island, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1947
Fire Dept Repair Shop	New York, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Public School 157	Queens, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Public School 22	Bronx, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Reuben's Restaurant	New York, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
W&J Sloane	New York, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Marine-Midland Trust Co.	New York, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Charleston Gardens B. Altman & Co.	New York, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
N Y State Housing Authority	New York, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
N Y City Housing Authority	New York, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949

International Airport	New York, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Republic Aviation Corp.	Farmingdale, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Patne Industries	New York, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Textron, Inc.	New York, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Hotel Commodore	New York, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Yankee Stadium Club Room	New York, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Tournament Lanes Bowling Alleys	Brooklyn, NY	Spraykote	Sprayed Insulation Inc.	Sweet's 1949
Lord & Taylor's Bird Cage Restaurant	Mamaroneck, NY	Softone Acoustical Plaster	American Acoustics, Inc.	Sweet's 1949
The Brass Rail	New York, NY	Spraycraft	Sprayed Insulation, Inc.	Sweet's 1953
Howard Johnson's New Yorker	New York, NY	Spraycraft	Sprayed Insulation, Inc.	Sweet's 1953
Eastman Recordak Corp.	New York, NY	Spraycraft	Sprayed Insulation, Inc.	Sweet's 1953
Charleston Gardens B. Altman & Co.	New York, NY	Spraycraft	Sprayed Insulation, Inc.	Sweet's 1953
U.S. Supreme Court	Brooklyn, NY	Spraycraft	Sprayed Insulation, Inc.	Sweet's 1953

N.Y. Fire Dept. Repair Shop	New York, NY	Spraycraft	Sprayed Insulation, Inc.	Sweet's 1953
Republic Aviation Corp.	Farmingdale, NY	Spraycraft	Sprayed Insulation, Inc.	Sweet's 1953
Hotel Commodore	New York, NY	Spraycraft	Sprayed Insulation, Inc.	Sweet's 1953
International Airport	New York, NY	Spraycraft	Sprayed Insulation, Inc.	Sweet's 1953
Charleston Gardens B. Altman & Son	Fifth Avenue New York, NY	Spraydon	Sprayon Insulation & Acoustics, Inc.	Sweet's 1956
Thayer Hall United States Military Academy	West Point, NY	Spraycraft	Smith & Kanzler Corp.	Sweet's 1959
Monroe Bowling Alley	Monroe, NY	Spraycraft	Installed by: "Aaer-Sprayed" Insulations, Inc.	Sweet's 1959
Westchester Airport	Westchester, NY	Spraycraft	Installed by: "Aaer-Sprayed" Insulations, Inc.	Sweet's 1959
West Point Military Academy	West Point, NY	Spraycraft	Installed by: "Aaer-Sprayed" Insulations, Inc.	Sweet's 1959
Nurses Dining Room Bellview Hospital	New York, NY	Spraydon	Sprayon Insulation & Acoustics, Inc.	Sweet's 1959
Puhlman Foundry	Buffalo, NY	Thermacoustic	National Gypsum Co.	Letter located in NG documents dated 3/27/59.

Thruway Bowling Lanes	Buffalo, NY	Thermacoustic	National Gypsum Co.	Letter located in NG documents dated 3/27/59.
Suburban Bowling Lane	Tonawanda, NY	Thermacoustic	National Gypsum Co.	Letter located in NG documents dated 3/27/59.
Skyway Bowling Lane	Plattsburg, NY	Thermacoustic	National Gypsum Co.	Letter located in NG documents dated 3/27/59.
Old Westbury Estates	Old Westbury Long Island, NY	Spraydon	Sprayon Insulation & Acoustics, Inc.	Sweet's 1960
Administration, Construction and Maintenance Bldg. #5	Dept. of Public Works, Albany, NY	Spraycraft	Smith & Kanzler Corp.	Sweet's 1962
Pan Am Building	New York	Spraycraft	Smith & Kanzler Corp.	Sweet's 1962
60 Broad Street	New York	Spraycraft	Smith & Kanzler Corp.	Sweet's 1962
Episcopal Church Center	New York	Spraycraft	Smith & Kanzler	Sweet's 1964
Chemical Bank New York Trust Building	Park Ave., New York, NY	Spraycraft	Smith & Kanzler	Sweet's 1964
Buffalo & Erie County Public Library	Buffalo, NY	Spraydon	Sprayon Insulation & Acoustics, Inc.	Sweet's 1964
AT&T 1964-65 New York	New York, NY	Spraydon	Sprayon Insulation & Acoustics, Inc.	Sweet's 1964

World's Fair				
Home Insurance Co. Bldg.	New York, NY	Spraydon	Sprayon Research Corp.	Sweet's 1966
Madison Square Garden Sports & Entertainment Center	New York, NY	Spraycraft	Smith & Kanzler	Sweet's 1967
General Motors	769 Fifth Ave New York, NY	Spraydon	Sprayon Research Corp.	Sweet's 1968
United Nations General Assembly Building	New York, NY	Thermacoustic	Sealtite Insulation Manufacturing Co.	Sweet's 1968 & 1969
Information Center Gateway Building		Thermacoustic	Sealtite Insulation Manufacturing Co.	Sweet's 1968 & 1969
110 William St. Building	New York, NY	Thermacoustic	Sealtite Insulation Manufacturing Co.	Sweet's 1968 & 1969
Monroe County Health & Welfare Administration Building	Rochester, NY	Spraycraft	Smith & Kanzler	Sweet's 1969
No. 1 New York Plaza	New York, NY	Spraycraft	Smith & Kanzler	Sweet's 1969
Gulf & Western Plaza	New York, NY	Pyrospray	Keene Corp.	Sweet's 1971
Marine Midland Building	Buffalo, NY	Spraydon	Sprayon Research Corp.	Sweet's 1973
Agency Bldg.	South Mall	Spraydon	Sprayon Research	Sweet's 1973

	Albany, NY		Corp.	
Earl W. Brydges Public Library	Niagra Falls, NY	Albi-Clad	Albi Manufacturing Corp.	Brochure produced by USG.

THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF NEW YORK
CASE NO. 91-CIV-0310

THE PORT AUTHORITY OF NEW YORK, and NEW JERSEY (formerly known as "The Port of New York Authority") and PORT AUTHORITY TRANS-HUDSON CORPORATION ("PATH"), individually and as successor in interest of properties owned by Hudson Tunnel Railroad Company, New York and New Jersey Railroad Company, Hoboken & Manhattan Railroad Company, Hudson and Manhattan Railroad Company, Hudson and Manhattan Corporation, Hudson Rapid Tubes Corporation, and Hudson-Manhattan Railroad,

Plaintiffs,

vs

ALLIED CORPORATION, (individually and as a subsidiary of "Allied-Signal Inc."), et al.,

Defendants.

DEPOSITION UNDER ORAL EXAMINATION OF JOHN C. OTTINGER VOLUME I

BRODY & GEISER
CERTIFIED SHORTHAND REPORTERS
77 Hamilton Avenue
Fords, New Jersey 08863
(908) 738-8555

JOB #201285

A Plastic, p-l-a-s-t-i-c, which is a formulated material that had asbestos in it and was used for acoustical applications.

Q Were there any other asbestos --

A There was another product that was a -- what was called a castable, a high temperature insulating cement which contained asbestos. It was used in boiler applications and oil burner conversions from coal.

Q Were there any other asbestos-containing products that you manufactured?

A No.

Q Let me ask you about specific buildings at Kennedy Airport and see if any of these jog your memory at all.

A Yes.

Q The question would be on whether or not Grace fireproofing or plaster products were installed in those buildings. We're talking about asbestos-containing, and again, the pre-1973 period. Or if you know of any other companies whose products were used in those buildings, fireproofing or plaster asbestos-containing products.

[redacted]

[redacted]

Q Pan American Hangar 17.

A No knowledge of that one.

Q Pan American Hangar 19.

A No, not of that one.

[redacted]

Q The Pan Am Passenger Terminal, that's the building you referred to earlier in your testimony.

A I believe it -- that's the building, yeah, that I do recall.

[redacted]

[redacted]

[redacted]

PORT AUTHORITY CONTINUED TO ALLOW SPRAYING OF OTHER ASBESTOS-CONTAINING CEMENTITIOUS PRODUCTS

Specifications For Pan Am Passenger Terminal at JFK Allowed Asbestos-Containing Monokote

"(2) Asbestos Containing Material - The sprayed fireproofing material shall be cementitious type, and may be Monokote 3, which contains asbestos, as manufactured by Zonolite Division of W.R. Grace & Co., or approved equal, provided that its application procedures comply with the Order of the Commissioner, New York City Department of Air Resources, entitled 'In the Matter of the Spraying of Asbestos Containing Material,' effective June 23, 1970."

(Pan Am Specification, Revised 11/16/70, DX-659)