

FOI #15224



# KASSEM & ASSOCIATES, P.C.

Attorneys At Law

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CLIFTON, NEW JERSEY 07013  
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TOLL FREE: (866) 586-5600  
(Please respond to the Clifton Office)

Nabil N. Kassem\*  
Ethan C. Wells

\* Also admitted in New York

West Caldwell Office:  
607 Bloomfield Avenue  
West Caldwell, New Jersey 07006

New York Office:  
35 East Grassy Sprain Rd, Suite 508  
Yonkers, New York 10710

August 6, 2014

Via Regular & Certified Mail/RRR

Elizabeth Police Department  
1 Police Plaza  
Elizabeth, New Jersey 07201

Yolanda M. Roberts, Clerk  
50 Winfield Scott Plaza  
Elizabeth, New Jersey 07201

Newark Police Department  
11 Green Street  
Newark, New Jersey

Robert P. Marasco, Clerk  
920 Broad Street  
Newark, New Jersey 07102

Port Authority of New York and New Jersey  
1 Path Plaza, 1<sup>st</sup> Floor  
Jersey City, New Jersey 07306

Newark Liberty International Airport  
3 Brewster Road  
Newark, New Jersey 07114

08-15-14P03:01 RCVD

**Re: Claimant: Mr. Majed Abd-Elshahed**  
**Location: Newark Liberty International Airport—Terminal A Arrivals**  
**Date of Incident: August 4, 2014**

Dear Sir/Madam:

Please be advised that this office represents the interests of Mr. Majed Abd-Elshahed in relation to an incident which occurred at Newark Liberty International Airport, at Terminal A, in the arrivals, on August 4, 2014 at approximately 9:25 a.m. As such, I am requesting that you kindly forward a copy of any and all incident reports, photographs, video surveillance tapes, recordings, DVDs and/or the like (collectively the "Recordings") which refer and/or relate to the aforementioned area/incident on the above-referenced date. As previously stated we believe that the incident occurred at approximately 9:25 a.m., but are demanding any and all Recordings for that area from August 4, 2014 to ensure we obtain any and all relevant evidence. Due to the nature of this situation, I am hereby placing you on notice that you must retain any and/or any and all records, including without limitation, any and all surveillance videos, photographs and/or the Recordings of that area on the above-referenced dates.

Additionally, kindly retain any and all maintenance and/or inspections records of the traffic control device(s) for that area within the past two (2) years from the dates referenced above. This correspondence shall confirm that you are on notice of the fact that Mr. Abd-Elshahed is demanding that you preserve and retain any and all records, documents, evidence and/or the like. Please be advised, that in the event any such evidence is destroyed, there may be a claim for spoliation. I trust that this will not be an issue and I look forward to obtaining the requested information.

If you have any questions and/or concerns, please do not hesitate to contact me. We appreciate and anticipate your cooperation in this matter.

Very truly yours,



NABIL N. KASSEM

NNK/cmv

FOI Administrator

September 9, 2014

Mr. Nabil N. Kassem  
Kassem & Associates, P.C.  
1000 Clifton Avenue  
Clifton, NJ 07013

Re: Freedom of Information Reference No. 15224

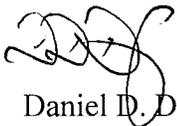
Dear Mr. Kassem:

This is in response to your August 6, 2014 request, which has been processed under the Port Authority's Freedom of Information Code (the "Code") for copies of records related to Majed Abd-Elshahed's accident on 8/4/14 at Newark Liberty International Airport-Terminal A Arrivals. Copies of any and all maintenance and/or inspections records of the traffic control device(s) for the area within the past two (2) years from the date of the accident.

Material responsive to your request and available under the Code can be found on the Port Authority's website at <http://www.panynj.gov/corporate-information/foi/15224-O.pdf>. Paper copies of the available records are available upon request.

Please refer to the above FOI reference number in any future correspondence relating to your request.

Very truly yours,



Daniel D. Duffy  
FOI Administrator



631 Morris Ave. Springfield, NJ 07081  
Tel. 973.467.4901 Fax 973.467.4902

## Letter of Transmittal

Date: August 22, 2012

**To:**

Robert Grassi  
PANYNJ Electrical Maintenance  
Building 80  
Newark Liberty Int'l Airport  
Newark, NJ 07114

**From:**

Jen Electric, Inc  
631 Morris Avenue  
Springfield, NJ 07081

**Ref: Quarterly Inspection Reports**

**Message:**

Dear Mr. Grassi,

Enclosed are the quarterly inspection reports for the twenty-two (22) signalized intersections at Newark Liberty International Airport. These were completed on August 18th and 20th.

If you have any questions or concerns please do not hesitate to contact us.

Sincerely,

Frank D. Dobiszewski, P.E., P.T.O.E.  
Vice-President of Engineering

**Traffic Signal Quarterly Preventive Maintenance Checklist - August 2012**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT		Date:	
Signal No: <u>303</u>		Start Time: <u>11:30</u>	
Location: <u>Term A / Ped 1</u>		Finish Time: <u>11:55</u>	
Contractor: JEN ELECTRIC, INC.		Signal Technician: F. DOBISZEWSKI	
OK	TASK	DEFICIENCY NOTED	CORRECTED
<b>Cabinet</b>			
✓	Clean cabinet air filter		
✓	Check operation of fan and thermostat		
✓	Vacuum control cabinet to remove all dust and debris		
✓	Check operation of cabinet light and switch; replace if necessary		
✓	Measure and record incoming AC service voltage (V= <u>114.5</u> )		
✓	Check maintenance records to identify recurring maintenance issues that require attention		
✓	Test & reset ground fault receptacles, circuit breakers and fuses, replace as required		
✓	Check radio interference filter and surge arrester, replace as required		
✓	Check and lubricate hinges and locks		
✓	Check for water accumulation in the cabinet, seal as required. Replace duct seal as required		
✓	Check door gaskets and realign as required		
<b>Signal Heads</b>			
✓	Perform ground level check of vehicular and pedestrian heads for lamp/LED module failures		
✓	Perform ground level check on condition of back plates		
✓	Perform ground level visibility check for all vehicle and pedestrian approaches		
<b>Pushbuttons</b>			
✓	Check pushbutton and sign condition		
✓	Check pushbutton for proper operation		
✓	Check for damage to paint and touch up		
<b>Poles and Mast Arms</b>			
✓	Perform ground level check alignment of mast arms		
✓	Check foundations for damage or deterioration		
<b>Detection</b>			
NA	Perform visual inspection of all loop detectors and roadway area		
✓	Check operation of loop amplifiers & tune as required		
✓	Check all loop detectors to verify that vehicles are being detected		
✓	Check amplifier connectors for tightness		
✓	Check microwave detectors to verify that vehicles are detected in all zones, tune as required		
✓	Check video detectors to verify that vehicles are detected in all zones, tune as required		
<b>Controller and Cabinet Equipment</b>			
✓	Check and verify signal timing and time & day settings		
✓	Check conflict monitor by actual conflicts (removal of program card, MS-A connector)		
✓	Check and verify communications and ID number of controller		
✓	Verify the time settings in the local match the master		
✓	Check controller to verify it operates in the mode selected by the supervisory master		
✓	Disconnect from the master supervisory system and check for "free" or backup operation		
✓	Check any special traffic signal equipment per manufacturer's recommendations		
✓	Check load switches, flasher and relays for proper fit into socket		
✓	Wipe dust off controller, detectors, and auxiliary equipment		
✓	Check indicator lamps on controller, loop amplifiers and other electronics in cabinet		
✓	Check terminal connections for tightness		
✓	Check electrical/traffic plan and timing chart		

Signature: FJD

Date: August 20, 2012

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**Traffic Signal Quarterly Preventive Maintenance Checklist - August 2012**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT		Date:	
Signal No:	<u>304</u>	Start Time:	<u>12:30</u>
Location:	<u>Term A / Ped 2</u>	Finish Time:	<u>12:55</u>
Contractor: JEN ELECTRIC, INC.		Signal Technician: F. DOBISZEWSKI	
OK	TASK	DEFICIENCY NOTED	CORRECTED
<b>Cabinet</b>			
✓	Clean cabinet air filter		
✓	Check operation of fan and thermostat		
✓	Vacuum control cabinet to remove all dust and debris		
✓	Check operation of cabinet light and switch; replace if necessary		
✓	Measure and record incoming AC service voltage (V= <u>115.0</u> )		
✓	Check maintenance records to identify recurring maintenance issues that require attention		
✓	Test & reset ground fault receptacles, circuit breakers and fuses, replace as required		
✓	Check radio interference filter and surge arrester, replace as required		
✓	Check and lubricate hinges and locks		
✓	Check for water accumulation in the cabinet, seal as required. Replace duct seal as required		
✓	Check door gaskets and realign as required		
<b>Signal Heads</b>			
✓	Perform ground level check of vehicular and pedestrian heads for lamp/LED module failures		
✓	Perform ground level check on condition of back plates		
✓	Perform ground level visibility check for all vehicle and pedestrian approaches		
<b>Pushbuttons</b>			
✓	Check pushbutton and sign condition		
✓	Check pushbutton for proper operation		
✓	Check for damage to paint and touch up		
<b>Poles and Mast Arms</b>			
✓	Perform ground level check alignment of mast arms		
✓	Check foundations for damage or deterioration		
<b>Detection</b>			
NA	Perform visual inspection of all loop detectors and roadway area		
✓	Check operation of loop amplifiers & tune as required		
✓	Check all loop detectors to verify that vehicles are being detected		
✓	Check amplifier connectors for tightness		
✓	Check microwave detectors to verify that vehicles are detected in all zones, tune as required		
✓	Check video detectors to verify that vehicles are detected in all zones, tune as required		
<b>Controller and Cabinet Equipment</b>			
✓	Check and verify signal timing and time & day settings		
✓	Check conflict monitor by actual conflicts (removal of program card, MS-A connector)		
✓	Check and verify communications and ID number of controller		
✓	Verify the time settings in the local match the master		
✓	Check controller to verify it operates in the mode selected by the supervisory master		
✓	Disconnect from the master supervisory system and check for "free" or backup operation		
✓	Check any special traffic signal equipment per manufacturer's recommendations		
✓	Check load switches, flasher and relays for proper fit into socket		
✓	Wipe dust off controller, detectors, and auxiliary equipment		
✓	Check indicator lamps on controller, loop amplifiers and other electronics in cabinet		
✓	Check terminal connections for tightness		
✓	Check electrical/traffic plan and timing chart		

Signature: FDO

Date: August 20, 2012

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**Traffic Signal Quarterly Preventive Maintenance Checklist - August 2013**

Facility: **NEWARK LIBERTY INTERNATIONAL AIRPORT** Date: 8/12/2013  
 Signal No: #303 Start Time: \_\_\_\_\_  
 Location: Term A: Ped cross #1 & 40V Finish Time: \_\_\_\_\_  
 Contractor: **JEN ELECTRIC, INC.** Signal Technician: **DJ ROCCO**

OK	TASK	DEFICIENCY NOTED	CORRECTED
<b>Cabinet</b>			
<input checked="" type="checkbox"/>	Clean cabinet air filter		
<input checked="" type="checkbox"/>	Check operation of fan and thermostat		
<input checked="" type="checkbox"/>	Vacuum control cabinet to remove all dust and debris		
<input checked="" type="checkbox"/>	Check operation of cabinet light and switch; replace if necessary		
<input checked="" type="checkbox"/>	Measure and record incoming AC service voltage (V= <u>116V</u> )		
<input checked="" type="checkbox"/>	Check maintenance records to identify recurring maintenance issues that require attention		
<input checked="" type="checkbox"/>	Test & reset ground fault receptacles, circuit breakers and fuses, replace as required		
<input checked="" type="checkbox"/>	Check radio interference filter and surge arrestor, replace as required		
<input checked="" type="checkbox"/>	Check and lubricate hinges and locks		
<input checked="" type="checkbox"/>	Check for water accumulation in the cabinet, seal as required. Replace duct seal as required		
<input checked="" type="checkbox"/>	Check door gaskets and realign as required		
<b>Signal Heads</b>			
<input checked="" type="checkbox"/>	Perform ground level check of vehicular and pedestrian heads for lamp/LED module failures		
<input checked="" type="checkbox"/>	Perform ground level check on condition of back plates		
<input checked="" type="checkbox"/>	Perform ground level visibility check for all vehicle and pedestrian approaches		
<b>Pushbuttons</b>			
<input checked="" type="checkbox"/>	Check pushbutton and sign condition		
<input checked="" type="checkbox"/>	Check pushbutton for proper operation		
<input checked="" type="checkbox"/>	Check for damage to paint and touch up		
<b>Poles and Mast Arms</b>			
<input checked="" type="checkbox"/>	Perform ground level check alignment of mast arms		
<input checked="" type="checkbox"/>	Check foundations for damage or deterioration		
<b>Detection</b>			
<input checked="" type="checkbox"/>	Perform visual inspection of all loop detectors and roadway area	<u>None</u>	
<input checked="" type="checkbox"/>	Check operation of loop amplifiers & tune as required	<u>None</u>	
<input checked="" type="checkbox"/>	Check all loop detectors to verify that vehicles are being detected	<u>None</u>	
<input checked="" type="checkbox"/>	Check amplifier connectors for tightness	<u>None</u>	
<input checked="" type="checkbox"/>	Check microwave detectors to verify that vehicles are detected in all zones, tune as required	<u>None</u>	
<input checked="" type="checkbox"/>	Check video detectors to verify that vehicles are detected in all zones, tune as required	<u>None</u>	
<b>Controller and Cabinet Equipment</b>			
<input checked="" type="checkbox"/>	Check and verify signal timing and time & day settings		
<input checked="" type="checkbox"/>	Check conflict monitor by actual conflicts (removal of program card, MS-A connector)		
<input checked="" type="checkbox"/>	Check and verify communications and ID number of controller		
<input checked="" type="checkbox"/>	Verify the time settings in the local match the master		
<input checked="" type="checkbox"/>	Check controller to verify it operates in the mode selected by the supervisory master		
<input checked="" type="checkbox"/>	Disconnect from the master supervisory system and check for "free" or backup operation		
<input checked="" type="checkbox"/>	Check any special traffic signal equipment per manufacturer's recommendations		
<input checked="" type="checkbox"/>	Check load switches, flasher and relays for proper fit into socket		
<input checked="" type="checkbox"/>	Wipe dust off controller, detectors, and auxiliary equipment		
<input checked="" type="checkbox"/>	Check indicator lamps on controller, loop amplifiers and other electronics in cabinet		
<input checked="" type="checkbox"/>	Check terminal connections for tightness		
<input checked="" type="checkbox"/>	Check electrical/traffic plan and timing chart	<u>No Plan</u>	

Signature: [Handwritten Signature]

Date: 8/12/2013

**NOTES:**

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**Traffic Signal Quarterly Preventive Maintenance Checklist - August 2013**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT

Date: 8/12/2013

Signal No: # 304

Start Time: \_\_\_\_\_

Location: Ped cross #2 / Term A HOV

Finish Time: \_\_\_\_\_

Contractor: JEN ELECTRIC, INC.

Signal Technician: DJ ROCCO

OK	TASK	DEFICIENCY NOTED	CORRECTED
<b>Cabinet</b>			
✓	Clean cabinet air filter		
✓	Check operation of fan and thermostat		
✓	Vacuum control cabinet to remove all dust and debris		
✓	Check operation of cabinet light and switch; replace if necessary		
✓	Measure and record incoming AC service voltage (V=116 ✓)		
✓	Check maintenance records to identify recurring maintenance issues that require attention		
✓	Test & reset ground fault receptacles, circuit breakers and fuses, replace as required		
✓	Check radio interference filter and surge arrestor, replace as required		
✓	Check and lubricate hinges and locks		
✓	Check for water accumulation in the cabinet, seal as required. Replace duct seal as required		
✓	Check door gaskets and realign as required		
<b>Signal Heads</b>			
✓	Perform ground level check of vehicular and pedestrian heads for lamp/LED module failures		
✓	Perform ground level check on condition of back plates		
✓	Perform ground level visibility check for all vehicle and pedestrian approaches		
<b>Pushbuttons</b>			
✓	Check pushbutton and sign condition		
✓	Check pushbutton for proper operation		
✓	Check for damage to paint and touch up		
<b>Poles and Mast Arms</b>			
✓	Perform ground level check alignment of mast arms		
✓	Check foundations for damage or deterioration		
<b>Detection</b>			
✓	Perform visual inspection of all loop detectors and roadway area	None	
✓	Check operation of loop amplifiers & tune as required	None	
✓	Check all loop detectors to verify that vehicles are being detected	None	
✓	Check amplifier connectors for tightness	None	
✓	Check microwave detectors to verify that vehicles are detected in all zones, tune as required	None	
✓	Check video detectors to verify that vehicles are detected in all zones, tune as required	None	
<b>Controller and Cabinet Equipment</b>			
✓	Check and verify signal timing and time & day settings		
✓	Check conflict monitor by actual conflicts (removal of program card, MS-A connector)		
✓	Check and verify communications and ID number of controller		
✓	Verify the time settings in the local match the master		
✓	Check controller to verify it operates in the mode selected by the supervisory master		
✓	Disconnect from the master supervisory system and check for "free" or backup operation		
✓	Check any special traffic signal equipment per manufacturer's recommendations		
✓	Check load switches, flasher and relays for proper fit into socket		
✓	Wipe dust off controller, detectors, and auxiliary equipment		
✓	Check indicator lamps on controller, loop amplifiers and other electronics in cabinet		
✓	Check terminal connections for tightness		
✓	Check electrical/traffic plan and timing chart		

Signature: 

Date: 8/12/2013

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**Traffic Signal Quarterly Preventive Maintenance Checklist - December 2013**

Facility: <b>NEWARK LIBERTY INTERNATIONAL AIRPORT</b>	Date: <u>12-12-13</u>
Signal No: <u>303</u>	Start Time: _____
Location: <u>Term A Ped X-ing 1</u>	Finish Time: _____
Contractor: <b>JEN ELECTRIC, INC.</b>	Signal Technician: _____

OK	TASK	DEFICIENCY NOTED	CORRECTED
<b>Cabinet</b>			
✓	Clean cabinet air filter		
✓	Check operation of fan and thermostat		
✓	Vacuum control cabinet to remove all dust and debris		
✓	Check operation of cabinet light and switch; replace if necessary		
✓	Measure and record incoming AC service voltage (V= <u>116.9</u> )		
✓	Check maintenance records to identify recurring maintenance issues that require attention		
✓	Test & reset ground fault receptacles, circuit breakers and fuses, replace as required		
✓	Check radio interference filter and surge arresstor, replace as required		
✓	Check and lubricate hinges and locks		
✓	Check for water accumulation in the cabinet, seal as required. Replace duct seal as required		
✓	Check door gaskets and realign as required		
<b>Signal Heads</b>			
✓	Perform ground level check of vehicular and pedestrian heads for lamp/LED module failures		
✓	Perform ground level check on condition of back plates		
✓	Perform ground level visibility check for all vehicle and pedestrian approaches		
<b>Pushbuttons</b>			
✓	Check pushbutton and sign condition		
✓	Check pushbutton for proper operation		
✓	Check for damage to paint and touch up		
<b>Poles and Mast Arms</b>			
✓	Perform ground level check alignment of mast arms		
✓	Check foundations for damage or deterioration		
<b>Detection</b>			
✓	Perform visual inspection of all loop detectors and roadway area		
✓	Check operation of loop amplifiers & tune as required		
✓	Check all loop detectors to verify that vehicles are being detected		
✓	Check amplifier connectors for tightness		
✓	Check microwave detectors to verify that vehicles are detected in all zones, tune as required		
✓	Check video detectors to verify that vehicles are detected in all zones, tune as required		
<b>Controller and Cabinet Equipment</b>			
✓	Check and verify signal timing and time & day settings		
✓	Check conflict monitor by actual conflicts (removal of program card, MS-A connector)		
✓	Check and verify communications and ID number of controller		
✓	Verify the time settings in the local match the master		
✓	Check controller to verify it operates in the mode selected by the supervisory master		
✓	Disconnect from the master supervisory system and check for "free" or backup operation		
✓	Check any special traffic signal equipment per manufacturer's recommendations		
✓	Check load switches, flasher and relays for proper fit into socket		
✓	Wipe dust off controller, detectors, and auxiliary equipment		
✓	Check indicator lamps on controller, loop amplifiers and other electronics in cabinet		
✓	Check terminal connections for tightness		
✓	Check electrical/traffic plan and timing chart		

Signature: [Signature]

Date: 12-12-13

**NOTES:**

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[Signature]

**Traffic Signal Quarterly Preventive Maintenance Checklist - December 2013**

Facility: <b>NEWARK LIBERTY INTERNATIONAL AIRPORT</b>	Date: <u>12-12-13</u>
Signal No: <u>304</u>	Start Time: _____
Location: <u>Term A Ped X-ing 2</u>	Finish Time: _____
Contractor: <b>JEN ELECTRIC, INC.</b>	Signal Technician: _____

OK	TASK	DEFICIENCY NOTED	CORRECTED
<b>Cabinet</b>			
<input checked="" type="checkbox"/>	Clean cabinet air filter		
<input checked="" type="checkbox"/>	Check operation of fan and thermostat		
<input checked="" type="checkbox"/>	Vacuum control cabinet to remove all dust and debris		
<input checked="" type="checkbox"/>	Check operation of cabinet light and switch; replace if necessary		
<input checked="" type="checkbox"/>	Measure and record incoming AC service voltage (V= <u>115.5</u> )		
<input checked="" type="checkbox"/>	Check maintenance records to identify recurring maintenance issues that require attention		
<input checked="" type="checkbox"/>	Test & reset ground fault receptacles, circuit breakers and fuses, replace as required		
<input checked="" type="checkbox"/>	Check radio interference filter and surge arrestor, replace as required		
<input checked="" type="checkbox"/>	Check and lubricate hinges and locks		
<input checked="" type="checkbox"/>	Check for water accumulation in the cabinet, seal as required. Replace duct seal as required		
<input checked="" type="checkbox"/>	Check door gaskets and realign as required		
<b>Signal Heads</b>			
<input checked="" type="checkbox"/>	Perform ground level check of vehicular and pedestrian heads for lamp/LED module failures		
<input checked="" type="checkbox"/>	Perform ground level check on condition of back plates		
<input checked="" type="checkbox"/>	Perform ground level visibility check for all vehicle and pedestrian approaches		
<b>Pushbuttons</b>			
<input checked="" type="checkbox"/>	Check pushbutton and sign condition		
<input checked="" type="checkbox"/>	Check pushbutton for proper operation		
<input checked="" type="checkbox"/>	Check for damage to paint and touch up		
<b>Poles and Mast Arms</b>			
<input checked="" type="checkbox"/>	Perform ground level check alignment of mast arms		
<input checked="" type="checkbox"/>	Check foundations for damage or deterioration		
<b>Detection</b>			
<input checked="" type="checkbox"/>	Perform visual inspection of all loop detectors and roadway area		
<input checked="" type="checkbox"/>	Check operation of loop amplifiers & tune as required		
<input checked="" type="checkbox"/>	Check all loop detectors to verify that vehicles are being detected		
<input checked="" type="checkbox"/>	Check amplifier connectors for tightness		
<input checked="" type="checkbox"/>	Check microwave detectors to verify that vehicles are detected in all zones, tune as required		
<input checked="" type="checkbox"/>	Check video detectors to verify that vehicles are detected in all zones, tune as required		
<b>Controller and Cabinet Equipment</b>			
<input checked="" type="checkbox"/>	Check and verify signal timing and time & day settings		
<input checked="" type="checkbox"/>	Check conflict monitor by actual conflicts (removal of program card, MS-A connector)		
<input checked="" type="checkbox"/>	Check and verify communications and ID number of controller		
<input checked="" type="checkbox"/>	Verify the time settings in the local match the master		
<input checked="" type="checkbox"/>	Check controller to verify it operates in the mode selected by the supervisory master		
<input checked="" type="checkbox"/>	Disconnect from the master supervisory system and check for "free" or backup operation		
<input checked="" type="checkbox"/>	Check any special traffic signal equipment per manufacturer's recommendations		
<input checked="" type="checkbox"/>	Check load switches, flasher and relays for proper fit into socket		
<input checked="" type="checkbox"/>	Wipe dust off controller, detectors, and auxiliary equipment		
<input checked="" type="checkbox"/>	Check indicator lamps on controller, loop amplifiers and other electronics in cabinet		
<input checked="" type="checkbox"/>	Check terminal connections for tightness		
<input checked="" type="checkbox"/>	Check electrical/traffic plan and timing chart		

Signature: [Signature] Date: 12-12-13

**NOTES:**

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[Signature]

ANNUAL 2013

**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/10)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT      Date: MAY 1 AND 17, 2013  
 Int. No: EWR-TA-303      Start Time: 7:30 AM  
 Location: Terminal A HOV at Pedestrian Crossing 1      Finish Time: 3:30 PM  
 Contractor: Jen Electric, Inc.      Signal Technician: JD, DR, MR, JV

OK	TASK	DEFICIENCY NOTED AND/OR COMMENTS	DEFICIENCY CORRECTED
<b>Cabinet</b>			
✓	Replace cabinet air filter; Cleaned perm filter		
✓	Check operation of fan and thermostat		
✓	Vacuum control cabinet to remove all dust and debris		
✓	Check operation of cabinet light and switch; replace if necessary		
✓	Check bonding and resistance to ground rod, clean and re-tighten as required		
✓	Measure and record incoming AC service voltage at input side of mercury/solid state relay ( V = 115.0 )		
✓	Check and tighten all terminal connections		
✓	Check all Police functions: Flash Switch and Manual Control		
✓	Test & reset ground fault receptacles, circuit breakers and all equipment fuses, replace as required		
✓	Check radio interference filter and surge arrestor, replace as required		
✓	Lubricate hinges and locks		
✓	Tighten anchor bolts as required		
✓	Check for water accumulation in the cabinet, seal as required. Replace duct seal as required		
✓	Verify that all spare conductors are landed on spare terminal blocks or taped off		
✓	Test and reset GFCI receptacle on power distribution panel; replace as required		
✓	Check door gaskets and realign or replace as required		
<b>Signal Heads</b>			
✓	Check safety chains to make sure it is securely fastened		
✓	Check signal and mast arm sign mounting hardware re-tighten as required		
✓	Check Vehicular and Pedestrian heads LED module failures. Notify PANYNJ		
N/A	Re-lamp all incandescent signals (Excludes LED & Optically Programmed)		
✓	Check for cracked and/or damaged mounting brackets		
✓	Check gaskets for water infiltration and deterioration		

**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/10)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT      Date: MAY 1 AND 17, 2013  
 Int. No: EWR-TA-303      Start Time: 7:30 AM  
 Location: Terminal A HOV at Pedestrian Crossing 1      Finish Time: 3:30 PM  
 Contractor: Jen Electric, Inc.      Signal Technician: JD, DR, MR, JV

OK	TASK	DEFICIENCY NOTED AND/OR COMMENTS	DEFICIENCY CORRECTED
	Check signal head doors, wing nuts, hinges, visors & louvers (if installed)	BACKPLATE FOR SIGNAL V2 DAMAGED (SEE PHOTO)	NO
	Inspect traffic signal housing for cracks or damage	PAINT IS PEELING ON HEADS (SEE PHOTOS)	NO
✓	Check alignment of vehicle & pedestrian heads for the approach they serve, reorient as required		
N/A	Check for branches & foliage obstructing signal indications-Report to the Port Authority		
✓	Check for cracked and/or missing screws		
✓	Check and clean lenses, visors and signs		
N/A	Check bushings on cable outlet and universal hangers; replace as required		
✓	Check terminal block connections and re-tighten as required		
✓	Check serrated rings in signal heads for damage and re-tighten as required		
<b>Pushbuttons</b>			
✓	Check pushbutton and sign condition		
✓	Check pushbutton for proper operation		
✓	Check for damage to paint and touch up		
<b>Poles, Mast Arms &amp; Span Wires</b>			
	Check poles, transformer bases and arms for wear and/or damage	POLE FOR SIGNALS P2+V2 DENTED POLE FOR SIGNAL P4 DENTED (SEE PHOTOS)	NO
✓	Adjust alignment & tighten mast arms to conform with approved drawing located in the cabinet		
✓	Check and tighten bolts between transformer base and foundation and shoe base		
✓	Check wire at outlets for chafing, ensure drip loop is properly installed; report issues to PANYNJ for action		
✓	Check paint condition and/or corrosion and notify PANYNJ		
✓	Check for missing pole caps and mast arm end caps; replace as required		
✓	Replace missing pole base access door		
✓	Check foundations for damage or deterioration		
N/A	Check condition of strain vises, if applicable		
N/A	Visually inspect each upper and lower tether span wire for damage or deterioration		
N/A	Visually inspect each upper and lower tether span wire for excess sag; report issues to PANYNJ for action		

**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/10)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT      Date: MAY 1 AND 17, 2013  
 Int. No: EWR-TA-303      Start Time: 7:30 AM  
 Location: Terminal A HOV at Pedestrian Crossing 1      Finish Time: 3:30 PM  
 Contractor: Jen Electric, Inc.      Signal Technician: JD, DR, MR, JV

OK	TASK	DEFICIENCY NOTED AND/OR COMMENTS	DEFICIENCY CORRECTED
N/A	Inspect all connecting span wire hardware; report issues to PANYNJ for action		
N/A	Inspect guy anchors for proper attachment and/or damage		
<b>Detection</b>			
N/A	Perform visual inspection of all loop detectors and roadway area		
N/A	Check operation of loop amplifiers & tune as required <sup>1</sup>		
N/A	Check all loop detectors to verify that vehicles are being detected. Test loops as required <sup>1</sup>		
N/A	Check amplifier connectors for tightness		
N/A	Check microwave detectors to verify that vehicles are detected in all zones, tune as required		
N/A	Clean video detection camera lenses		
N/A	Check video detectors to verify that vehicles are detected in all zones, tune as required		
N/A	Check camera mounting to verify that it is secure		
<b>Controller and Cabinet Equipment</b>			
✓	Check and verify signal timing with the timing plan located in the cabinet and time, day & daylight savings settings		
✓	Check conflict monitor by actual conflicts with recording conflict monitor tester <sup>2</sup>		
✓	Check and verify communications to master controller and ID number of controller		
✓	Verify the time settings in the local to match the master		
✓	Verify vehicle and pedestrian calls		
✓	Check controller to verify it operates in the mode selected by the supervisory master		
✓	Disconnect from the master supervisory system and check for "free" or backup operation		
✓	Check load switches, flasher and relays for proper fit into socket		
✓	Wipe dust off controller, detectors, and auxiliary equipment		
✓	Check indicator lamps on controller, loop amplifiers and other electronics in cabinet		
✓	Check for electrical wiring plan, Traffic Signal sequencing plan and timing chart. Notify PANYNJ if missing		
N/A	Check and verify operation of UPS equipment. Restore operation as required		
N/A	Verify automatic transfer switch operation		

**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/10)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT      Date: MAY 1 AND 17, 2013  
 Int. No: EWR-TA-303      Start Time: 7:30 AM  
 Location: Terminal A HOV at Pedestrian Crossing 1      Finish Time: 3:30 PM  
 Contractor: Jen Electric, Inc.      Signal Technician: JD, DR, MR, JV

OK	TASK	DEFICIENCY NOTED AND/OR COMMENTS	DEFICIENCY CORRECTED
N/A	Verify incoming line voltage		
N/A	Verify DC output to batteries		
N/A	Verify AC output on inverter		
N/A	Check electrical connections		
N/A	Test system via simulated power outage at cabinet		
✓	Note and record make, model, firmware version, and serial number for controllers, conflict monitors and other major components	SEE BELOW UNDER "OTHER" HEADING	

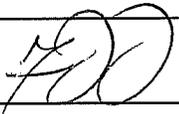
**Miscellaneous Tasks**

✓	Check splice box & pull box for proper grade		
✓	Check splice box & pull box ground rod, clean and tighten conduit clamp as required		
✓	Remove foreign material from junction boxes, pull boxes, & hand holes		
✓	Check the integrity of splices		

**OTHER**

**RECORDED MAKE, MODEL, AND SERIAL NUMBERS:**

CONTROLLER: PEEK, 3000E FIRMWARE VERSION 5074 5.0, S/N 21114072  
 CMU: EDI, SSM-12LEC, S/N 110508964

Signature: 

Date: *May 17, 2013*

- 1 - Malfunctioning loop amplifiers shall be temporarily replaced by an amplifier of known quality to isolate the problem. Replacement of amplifiers that are determined to be inoperable shall be performed only when directed by PANYNJ. Only loops that are determined to be inoperable shall be tested in accordance with the specifications when directed by the Manager.
- 2 - All conflict monitors shall be tested in accordance with the provisions in the specifications.
- 3 - In order to insure that all maintenance tasks have been performed and that all deficiencies have been identified and/or corrected, each line must be filled out and this page must be signed by the inspecting technician and the original copy shall be provided to Facility Electrical Maintenance Unit.

Agency : PANYNJ-EWR  
Tested By : FDD  
Location : EWR TERMINAL A  
Date / Time : 17 May 2013, 12:47



**MONITOR INFORMATION**

Manufacturer : EDI  
Model : SSM-12LEC  
Serial Number : 110508964  
Device ID : 303

**TEST EQUIPMENT**

Software Version 6.3  
PCMT-2600 Firmware v7.2  
Serial Number : 2600-1611

**SYSTEM TIMING TESTS**

Interlock : PASS  
Output Relay : PASS  
Power Interrupt Timing : PASS 478ms  
Initial Flash Time : PASS 4 sec  
Start Delay Time : PASS 2633ms  
DC1 Monitor Timing : PASS  
DC2 Monitor Timing : PASS  
DC1 Monitor Auto Reset Timing : PASS 3601ms  
DC2 Monitor Auto Reset Timing : PASS 3597ms  
DC Monitor Inhibit : PASS  
CVM Transfer Timing : PASS  
CVM Autc Reset Timing : PASS 3178ms  
Conflict Timing : PASS 259ms  
Conflict Latching : PASS  
Redfail Timing : PASS 777ms  
Redfail Latching : PASS

**VOLTAGE TESTS (12 CHANNELS)**

RED Channels 70Vrms Sine Wave : PASS  
RED Channels 50Vrms Sine Wave : PASS  
GRN Channels 25Vrms Sine Wave : PASS  
YEL Channels 25Vrms Sine Wave : PASS  
WLK Channels 25Vrms Sine Wave : PASS  
GRN Channels 25Vrms Positive Rectified : PASS  
YEL Channels 25Vrms Positive Rectified : PASS  
WLK Channels 25Vrms Positive Rectified : PASS  
GRN Channels 25Vrms Negative Rectified : PASS  
YEL Channels 25Vrms Negative Rectified : PASS  
WLK Channels 25Vrms Negative Rectified : PASS  
GRN Channels 15Vrms Sine Wave : PASS  
YEL Channels 15Vrms Sine Wave : PASS  
WLK Channels 15Vrms Sine Wave : PASS  
GRN Channels 15Vrms Positive Rectified : PASS  
YEL Channels 15Vrms Positive Rectified : PASS  
WLK Channels 15Vrms Positive Rectified : PASS  
GRN Channels 15Vrms Negative Rectified : PASS  
YEL Channels 15Vrms Negative Rectified : PASS  
WLK Channels 15Vrms Negative Rectified : PASS  
GRN Channels 120Vrms Through 1500pF : PASS  
YEL Channels 120Vrms Through 1500pF : PASS  
WLK Channels 120Vrms Through 1500pF : PASS

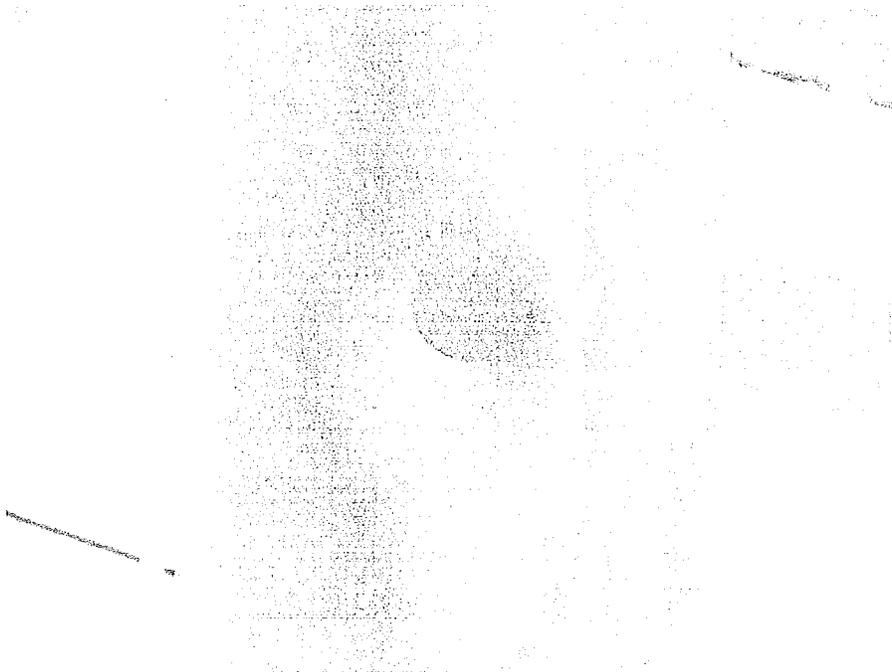
**OPTIONAL TESTS**

GRN-GRN Permissives (Non-Programmed Card) : PASS  
RED-WLK-GRN-YEL Single Channel : PASS  
GRN-YEL Dual Display : PASS  
RED-GRN Dual Display : PASS  
Logic GND / Earth GND Isolation : PASS  
Manual Reset Button : PASS

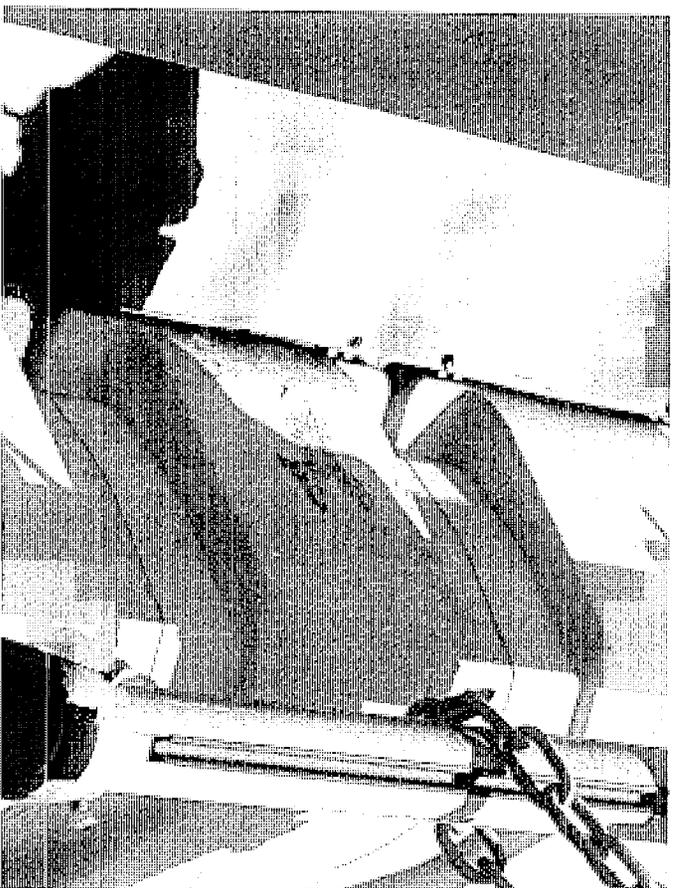
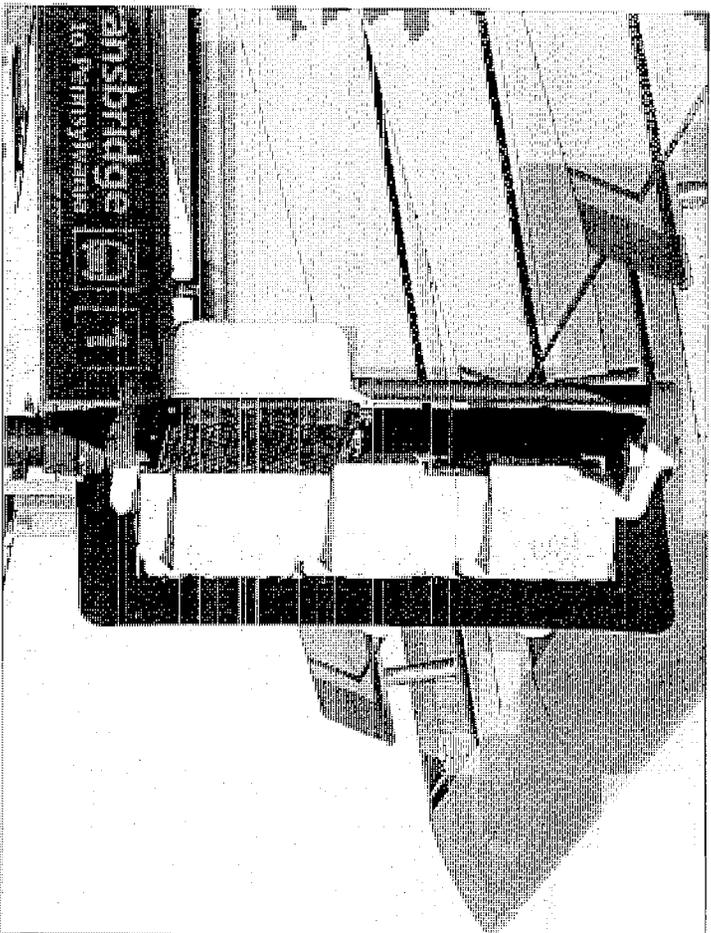
Test complete 17 May 2013, 13:44

**Passed All ATSI Certification Tests for NEMA TS1 Monitors.**

**LOCATION 303  
DENTED PEDESTAL POLES**



**LOCATION 303  
PEELING SIGNAL HEAD  
DAMAGED SIGNAL BACKPLATE**



**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/10)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT      Date: MAY 6 AND 17, 2013  
 Int. No: EWR-TA-304      Start Time: 7:30 AM  
 Location: Terminal A HOV at Pedestrian Crossing 2      Finish Time: 3:30 PM  
 Contractor: Jen Electric, Inc.      Signal Technician: JD, DR, MR, JV

OK	TASK	DEFICIENCY NOTED AND/OR COMMENTS	DEFICIENCY CORRECTED
<b>Cabinet</b>			
✓	Replace cabinet air filter; Cleaned perm filter		
✓	Check operation of fan and thermostat		
✓	Vacuum control cabinet to remove all dust and debris		
✓	Check operation of cabinet light and switch; replace if necessary		
✓	Check bonding and resistance to ground rod, clean and re-tighten as required		
✓	Measure and record incoming AC service voltage at input side of mercury/solid state relay ( V= 115.1)		
✓	Check and tighten all terminal connections		
✓	Check all Police functions: Flash Switch and Manual Control		
✓	Test & reset ground fault receptacles, circuit breakers and all equipment fuses, replace as required		
✓	Check radio interference filter and surge arrestor, replace as required		
✓	Lubricate hinges and locks		
✓	Tighten anchor bolts as required		
✓	Check for water accumulation in the cabinet, seal as required. Replace duct seal as required		
✓	Verify that all spare conductors are landed on spare terminal blocks or taped off		
✓	Test and reset GFCI receptacle on power distribution panel; replace as required		
✓	Check door gaskets and realign or replace as required		
<b>Signal Heads</b>			
✓	Check safety chains to make sure it is securely fastened		
✓	Check signal and mast arm sign mounting hardware re-tighten as required		
✓	Check Vehicular and Pedestrian heads LED module failures. Notify PANYNJ		
N/A	Re-lamp all incandescent signals (Excludes LED & Optically Programmed)		
✓	Check for cracked and/or damaged mounting brackets		
✓	Check gaskets for water infiltration and deterioration		

**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/10)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT      Date: MAY 6 AND 17, 2013  
 Int. No: EWR-TA-304      Start Time: 7:30 AM  
 Location: Terminal A HOV at Pedestrian Crossing 2      Finish Time: 3:30 PM  
 Contractor: Jen Electric, Inc.      Signal Technician: JD, DR, MR, JV

OK	TASK	DEFICIENCY NOTED AND/OR COMMENTS	DEFICIENCY CORRECTED
✓	Check signal head doors, wing nuts, hinges, visors & louvers (if installed)		
✓	Inspect traffic signal housing for cracks or damage		
✓	Check alignment of vehicle & pedestrian heads for the approach they serve, reorient as required		
N/A	Check for branches & foliage obstructing signal indications-Report to the Port Authority		
✓	Check for cracked and/or missing screws		
✓	Check and clean lenses, visors and signs		
N/A	Check bushings on cable outlet and universal hangers; replace as required		
✓	Check terminal block connections and re-tighten as required		
✓	Check serrated rings in signal heads for damage and re-tighten as required		

**Pushbuttons**

✓	Check pushbutton and sign condition		
✓	Check pushbutton for proper operation		
✓	Check for damage to paint and touch up		

**Poles, Mast Arms & Span Wires**

✓	Check poles, transformer bases and arms for wear and/or damage		
✓	Adjust alignment & tighten mast arms to conform with approved drawing located in the cabinet		
✓	Check and tighten bolts between transformer base and foundation and shoe base		
✓	Check wire at outlets for chafing, ensure drip loop is properly installed; report issues to PANYNJ for action		
✓	Check paint condition and/or corrosion and notify PANYNJ		
✓	Check for missing pole caps and mast arm end caps; replace as required		
✓	Replace missing pole base access door		
✓	Check foundations for damage or deterioration		
N/A	Check condition of strain vises, if applicable		
N/A	Visually inspect each upper and lower tether span wire for damage or deterioration		
N/A	Visually inspect each upper and lower tether span wire for excess sag; report issues to PANYNJ for action		

**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/10)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT      Date: MAY 6 AND 17, 2013  
 Int. No: EWR-TA-304      Start Time: 7:30 AM  
 Location: Terminal A HOV at Pedestrian Crossing 2      Finish Time: 3:30 PM  
 Contractor: Jen Electric, Inc.      Signal Technician: JD, DR, MR, JV

OK	TASK	DEFICIENCY NOTED AND/OR COMMENTS	DEFICIENCY CORRECTED
N/A	Inspect all connecting span wire hardware; report issues to PANYNJ for action		
N/A	Inspect guy anchors for proper attachment and/or damage		

**Detection**

N/A	Perform visual inspection of all loop detectors and roadway area		
N/A	Check operation of loop amplifiers & tune as required <sup>1</sup>		
N/A	Check all loop detectors to verify that vehicles are being detected. Test loops as required <sup>1</sup>		
N/A	Check amplifier connectors for tightness		
N/A	Check microwave detectors to verify that vehicles are detected in all zones, tune as required		
N/A	Clean video detection camera lenses		
N/A	Check video detectors to verify that vehicles are detected in all zones, tune as required		
N/A	Check camera mounting to verify that it is secure		

**Controller and Cabinet Equipment**

✓	Check and verify signal timing with the timing plan located in the cabinet and time, day & daylight savings settings		
✓	Check conflict monitor by actual conflicts with recording conflict monitor tester <sup>2</sup>		
✓	Check and verify communications to master controller and ID number of controller		
✓	Verify the time settings in the local to match the master		
✓	Verify vehicle and pedestrian calls		
✓	Check controller to verify it operates in the mode selected by the supervisory master		
✓	Disconnect from the master supervisory system and check for "free" or backup operation		
✓	Check load switches, flasher and relays for proper fit into socket		
✓	Wipe dust off controller, detectors, and auxiliary equipment		
✓	Check indicator lamps on controller, loop amplifiers and other electronics in cabinet		
✓	Check for electrical wiring plan, Traffic Signal sequencing plan and timing chart. Notify PANYNJ if missing		
N/A	Check and verify operation of UPS equipment. Restore operation as required		
N/A	Verify automatic transfer switch operation		

**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/10)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT      Date: MAY 6 AND 17, 2013  
 Int. No: EWR-TA-304      Start Time: 7:30 AM  
 Location: Terminal A HOV at Pedestrian Crossing 2      Finish Time: 3:30 PM  
 Contractor: Jen Electric, Inc.      Signal Technician: JD, DR, MR, JV

OK	TASK	DEFICIENCY NOTED AND/OR COMMENTS	DEFICIENCY CORRECTED
N/A	Verify incoming line voltage		
N/A	Verify DC output to batteries		
N/A	Verify AC output on inverter		
N/A	Check electrical connections		
N/A	Test system via simulated power outage at cabinet		
✓	Note and record make, model, firmware version, and serial number for controllers, conflict monitors and other major components	SEE BELOW UNDER "OTHER" HEADING	

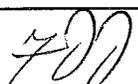
**Miscellaneous Tasks**

✓	Check splice box & pull box for proper grade		
✓	Check splice box & pull box ground rod, clean and tighten conduit clamp as required		
✓	Remove foreign material from junction boxes, pull boxes, & hand holes		
✓	Check the integrity of splices		

**OTHER**

**RECORDED MAKE, MODEL, AND SERIAL NUMBERS:**

CONTROLLER: PEEK, 3000E FIRMWARE VERSION 5074 5.0, S/N 21224006  
 CMU: EDI, SSM-12LEC, S/N 110508969

Signature: 

Date: *May 17, 2013*

- 1 - Malfunctioning loop amplifiers shall be temporarily replaced by an amplifier of known quality to isolate the problem. Replacement of amplifiers that are determined to be inoperable shall be performed only when directed by PANYNJ. Only loops that are determined to be inoperable shall be tested in accordance with the specifications when directed by the Manager.
- 2 - All conflict monitors shall be tested in accordance with the provisions in the specifications.
- 3 - In order to insure that all maintenance tasks have been performed and that all deficiencies have been identified and/or corrected, each line must be filled out and this page must be signed by the inspecting technician and the original copy shall be provided to Facility Electrical Maintenance Unit.

**NEMA TS1 Conflict Monitor Certification Test Report**

Agency : PANYNJ-EWR  
Tested By : FDD  
Location : EWR TERMINAL A  
Date / Time : 17 May 2013, 08:47



**MONITOR INFORMATION**

Manufacturer : EDI  
Model : SSM-12LEC  
Serial Number : 110508969  
Device ID : 304

**TEST EQUIPMENT**

Software Version 6.3  
PCMT-2600 Firmware v7.2  
Serial Number : 2600-1611

**SYSTEM TIMING TESTS**

Interlock	:	PASS	
Output Relay	:	PASS	
Power Interrupt Timing	:	PASS	483ms
Initial Flash Time	:	PASS	4 sec
Start Delay Time	:	PASS	2650ms
DC1 Monitor Timing	:	PASS	
DC2 Monitor Timing	:	PASS	
DC1 Monitor Auto Reset Timing	:	PASS	3591ms
DC2 Monitor Auto Reset Timing	:	PASS	3583ms
DC Monitor Inhibit	:	PASS	
CVM Transfer Timing	:	PASS	
CVM Auto Reset Timing	:	PASS	3183ms
Conflict Timing	:	PASS	258ms
Conflict Latching	:	PASS	
Redfail Timing	:	PASS	783ms
Redfail Latching	:	PASS	

**VOLTAGE TESTS (12 CHANNELS)**

RED Channels 70Vrms Sine Wave	:	PASS
RED Channels 50Vrms Sine Wave	:	PASS
GRN Channels 25Vrms Sine Wave	:	PASS
YEL Channels 25Vrms Sine Wave	:	PASS
WLK Channels 25Vrms Sine Wave	:	PASS
GRN Channels 25Vrms Positive Rectified	:	PASS
YEL Channels 25Vrms Positive Rectified	:	PASS
WLK Channels 25Vrms Positive Rectified	:	PASS
GRN Channels 25Vrms Negative Rectified	:	PASS
YEL Channels 25Vrms Negative Rectified	:	PASS
WLK Channels 25Vrms Negative Rectified	:	PASS
GRN Channels 15Vrms Sine Wave	:	PASS
YEL Channels 15Vrms Sine Wave	:	PASS
WLK Channels 15Vrms Sine Wave	:	PASS
GRN Channels 15Vrms Positive Rectified	:	PASS
YEL Channels 15Vrms Positive Rectified	:	PASS
WLK Channels 15Vrms Positive Rectified	:	PASS
GRN Channels 15Vrms Negative Rectified	:	PASS
YEL Channels 15Vrms Negative Rectified	:	PASS
WLK Channels 15Vrms Negative Rectified	:	PASS
GRN Channels 120Vrms Through 150pF	:	PASS
YEL Channels 120Vrms Through 150pF	:	PASS
WLK Channels 120Vrms Through 150pF	:	PASS

**OPTIONAL TESTS**

GRN-GRN Permissives (Non-Programmed Card)	:	PASS
RED-WLK-GRN-YEL Single Channel	:	PASS
GRN-YEL Dual Display	:	PASS
RED-GRN Dual Display	:	PASS
Logic GND / Earth GND Isolation	:	PASS
Manual Reset Button	:	PASS

Test complete 17 May 2013, 09:01

Passed All ATSI Certification Tests for NEMA TS1 Monitors.



# Letter of Transmittal

631 Morris Ave. Springfield, NJ 07081  
Tel. 973.467.4901 Fax 973.467.4902

Date: August 14, 2014

To: PANYNJ  
Newark Liberty International Airport  
Building 80 - Brewster Road  
Electrical Maintenance  
Newark, NJ

From: Jen Electric, Inc  
631 Morris Avenue  
Springfield, NJ 07081

**Attention: Robert Grassi - Electrical  
Maintenance Supervisor**

## Message:

Robert,

Enclosed are the quarterly PM sheets for August 14, 2014 performed at all traffic signals.

Please review and contact us with any questions or clarifications.

Thank you,

Frank D. Dobiszewski, P.E., P.T.O.E.

**Traffic Signal Quarterly Preventive Maintenance Checklist - August 2014**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT

Date: AUGUST 6, 2014

Signal No: 303

Signal Technician: FDD

Location: TERMINAL A - HOV AT PED-XING 1

Contractor: JEN ELECTRIC, INC.

OK	TASK	DEFICIENCY NOTED	CORRECTED
<b>Cabinet</b>			
X	Clean cabinet air filter		
X	Check operation of fan and thermostat		
X	Vacuum control cabinet to remove all dust and debris		
X	Check operation of cabinet light and switch; re place if necessary		
X	Measure and record incoming AC service voltage (V= 116.1)		
X	Check maintenance records to identify recurring maintenance issues that require attention		
X	Test & reset ground fault receptacles, circuit breakers and fuses, replace as required		
X	Check radio interference filter and surge arrester, replace as required		
X	Check and lubricate hinges and locks		
X	Check for water accumulation in the cabinet, seal as required. Replace duct seal as required		
X	Check door gaskets and realign as required		
<b>Signal Heads</b>			
X	Perform ground level check of vehicular and pedestrian heads for lamp/LED module failures		
X	Perform ground level check on condition of back plates		
X	Perform ground level visibility check for all vehicle and pedestrian approaches		
<b>Pushbuttons</b>			
X	Check pushbutton and sign condition		
X	Check pushbutton for proper operation		
X	Check for damage to paint and touch up		
<b>Poles and Mast Arms</b>			
X	Perform ground level check alignment of mast arms		
X	Check foundations for damage or deterioration		
<b>Detection</b>			
—	Perform visual inspection of all loop detectors and roadway area		
—	Check operation of loop amplifiers & tune as required		
—	Check all loop detectors to verify that vehicles are being detected		
—	Check amplifier connectors for tightness		
—	Check microwave detectors to verify that vehicles are detected in all zones, tune as required		
—	Check video detectors to verify that vehicles are detected in all zones, tune as required		
<b>Controller and Cabinet Equipment</b>			
X	Check and verify signal timing and time & day settings		
X	Check conflict monitor by actual conflicts (removal of program card, MS-A connector)		
X	Check and verify communications and ID number of controller		
X	Verify the time settings in the local match the master		
X	Check controller to verify it operates in the mode selected by the supervisory master		
X	Disconnect from the master supervisory system and check for "free" or backup operation		
—	Check any special traffic signal equipment per manufacturer's recommendations		
X	Check load switches, flasher and relays for proper fit into socket		
X	Wipe dust off controller, detectors, and auxiliary equipment		
X	Check indicator lamps on controller, loop amplifiers and other electronics in cabinet		
X	Check terminal connections for tightness		
X	Check electrical/traffic plan and timing chart		

Signature: *FDD*

Date: AUGUST 6, 2014

NOTES:

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**Traffic Signal Quarterly Preventive Maintenance Checklist - August 2014**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT

Date: AUGUST 6, 2014

Signal No: 304

Signal Technician: FDD

Location: TERMINAL A - HOV AT PED-XING 2

Contractor: JEN ELECTRIC, INC.

OK	TASK	DEFICIENCY NOTED	CORRECTED
<b>Cabinet</b>			
X	Clean cabinet air filter		
X	Check operation of fan and thermostat		
X	Vacuum control cabinet to remove all dust and debris		
X	Check operation of cabinet light and switch; replace if necessary		
X	Measure and record incoming AC service voltage (V= 115.9)		
X	Check maintenance records to identify recurring maintenance issues that require attention		
X	Test & reset ground fault receptacles, circuit breakers and fuses, replace as required		
X	Check radio interference filter and surge arrester, replace as required		
X	Check and lubricate hinges and locks		
X	Check for water accumulation in the cabinet, seals as required. Replace duct seal as required		
X	Check door gaskets and realign as required		
<b>Signal Heads</b>			
X	Perform ground level check of vehicular and pedestrian heads for lamp/LED module failures		
X	Perform ground level check on condition of back plates		
X	Perform ground level visibility check for all vehicle and pedestrian approaches		
<b>Pushbuttons</b>			
X	Check pushbutton and sign condition		
X	Check pushbutton for proper operation		
X	Check for damage to paint and touch up		
<b>Poles and Mast Arms</b>			
X	Perform ground level check alignment of mast arms		
X	Check foundations for damage or deterioration		
<b>Detection</b>			
—	Perform visual inspection of all loop detectors and roadway area		
—	Check operation of loop amplifiers & tune as required		
—	Check all loop detectors to verify that vehicles are being detected		
—	Check amplifier connectors for tightness		
—	Check microwave detectors to verify that vehicles are detected in all zones, tune as required		
—	Check video detectors to verify that vehicles are detected in all zones, tune as required		
<b>Controller and Cabinet Equipment</b>			
X	Check and verify signal timing and time & day settings		
X	Check conflict monitor by actual conflicts (removal of program card, MS-A connector)		
X	Check and verify communications and ID number of controller		
X	Verify the time settings in the local match the master		
X	Check controller to verify it operates in the mode selected by the supervisory master		
X	Disconnect from the master supervisory system and check for "free" or backup operation		
—	Check any special traffic signal equipment per manufacturer's recommendations		
X	Check load switches, flasher and relays for proper fit into socket		
X	Wipe dust off controller, detectors, and auxiliary equipment		
X	Check indicator lamps on controller, loop amplifiers and other electronics in cabinet		
X	Check terminal connections for tightness		
X	Check electrical/traffic plan and timing chart		

Signature: *FDD*

Date: AUGUST 6, 2014

**NOTES:**

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2014 ANNUAL



THE PORT AUTHORITY OF NY & NJ

# NEWARK LIBERTY INTERNATIONAL AIRPORT

## 2014 ANNUAL TRAFFIC SIGNAL INTERSECTION CERTIFICATIONS Volume 1 of 3

*PREPARED BY:*



631 Morris Ave. Springfield, NJ 07081  
Tel. 973.467.4901 Fax 973.467.4902

*SUBMITTED:*  
June 2014

**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/10)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT      Date: May 6, 2014  
 Int. No: EWR-TA-303      Start Time: 8:30  
 Location: Terminal A HOV at Pedestrian Crossing 1      Finish Time: 13:30  
 Contractor: Jen Electric, Inc.      Signal Technician: JD, JR, RM, FDD

OK	TASK	DEFICIENCY NOTED	DEFICIENCY CORRECTED
<b>Cabinet</b>			
✓	Replace cabinet air filter; Cleaned perm filter		
	Check operation of fan and thermostat	THERMOSTAT BAD	YES
✓	Vacuum control cabinet to remove all dust and debris		
✓	Check operation of cabinet light and switch; replace if necessary		
✓	Check bonding and resistance to ground rod, clean and re-tighten as required		
✓	Measure and record incoming AC service voltage at input side of mercury/solid state relay ( V = 117.5 )		
✓	Check and tighten all terminal connections		
✓	Check all Police functions: Flash Switch and Manual Control		
✓	Test & reset ground fault receptacles, circuit breakers and all equipment fuses, replace as required		
✓	Check radio interference filter and surge arrestor, replace as required		
✓	Lubricate hinges and locks		
✓	Tighten anchor bolts as required		
✓	Check for water accumulation in the cabinet, seal as required. Replace duct seal as required		
✓	Verify that all spare conductors are landed on spare terminal blocks or taped off		
✓	Test and reset GFCI receptacle on power distribution panel; replace as required		
✓	Check door gaskets and realign or replace as required		
<b>Signal Heads</b>			
—	Check safety chains to make sure it is securely fastened	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
—	Check signal and mast arm sign mounting hardware re-tighten as required	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
—	Check Vehicular and Pedestrian heads LED module failures. Notify PANYNJ	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
N/A	Re-lamp all incandescent signals (Excludes LED & Optically Programmed)		
—	Check for cracked and/or damaged mounting brackets	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
—	Check gaskets for water infiltration and deterioration	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	

**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/10)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT

Date: May 6, 2014

Int. No: EWR-TA-303

Start Time: 8:30

Location: Terminal A HOV at Pedestrian Crossing 1

Finish Time: 13:30

Contractor: Jen Electric, Inc.

Signal Technician: JD, JR, RM, FDD

OK	TASK	DEFICIENCY NOTED	DEFICIENCY CORRECTED
—	Check signal head doors, wing nuts, hinges, visors & louvers (if installed)	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
—	Inspect traffic signal housing for cracks or damage	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
—	Check alignment of vehicle & pedestrian heads for the approach they serve, reorient as required	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
N/A	Check for branches & foliage obstructing signal indications-Report to the Port Authority		
—	Check for cracked and/or missing screws	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
—	Check and clean lenses, visors and signs	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
N/A	Check bushings on cable outlet and universal hangers; replace as required		
—	Check terminal block connections and re-tighten as required	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
—	Check serrated rings in signal heads for damage and re-tighten as required	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
<b>Pushbuttons</b>			
✓	Check pushbutton and sign condition		
✓	Check pushbutton for proper operation		
✓	Check for damage to paint and touch up		
<b>Poles, Mast Arms &amp; Span Wires</b>			
✓	Check poles, transformer bases and arms for wear and/or damage		
✓	Adjust alignment & tighten mast arms to conform with approved drawing located in the cabinet		
✓	Check and tighten bolts between transformer base and foundation and shoe base		
✓	Check wire at outlets for chafing, ensure drip loop is properly installed; report issues to PANYNJ for action		
	Check paint condition and/or corrosion and notify PANYNJ	MAST ARMS ARE PEELING	NO
✓	Check for missing pole caps and mast arm end caps; replace as required		
—	Replace missing pole base access door		
✓	Check foundations for damage or deterioration		
N/A	Check condition of strain vises, if applicable		
N/A	Visually inspect each upper and lower tether span wire for damage or deterioration		
N/A	Visually inspect each upper and lower tether span wire for excess sag; report issues to PANYNJ for action		

**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/10)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT      Date: May 6, 2014  
 Int. No: EWR-TA-303      Start Time: 8:30  
 Location: Terminal A HOV at Pedestrian Crossing 1      Finish Time: 13:30  
 Contractor: Jen Electric, Inc.      Signal Technician: JD, JR, RM, FDD

OK	TASK	DEFICIENCY NOTED	DEFICIENCY CORRECTED
N/A	Inspect all connecting span wire hardware; report issues to PANYNJ for action		
N/A	Inspect guy anchors for proper attachment and/or damage		
<b>Detection</b>			
N/A	Perform visual inspection of all loop detectors and roadway area		
N/A	Check operation of loop amplifiers & tune as required		
N/A	Check all loop detectors to verify that vehicles are being detected. Test loops as required <sup>1</sup>		
N/A	Check amplifier connectors for tightness		
N/A	Check microwave detectors to verify that vehicles are detected in all zones, tune as required		
N/A	Clean video detection camera lenses		
N/A	Check video detectors to verify that vehicles are detected in all zones, tune as required		
N/A	Check camera mounting to verify that it is secure		
<b>Controller and Cabinet Equipment</b>			
✓	Check and verify signal timing with the timing plan located in the cabinet and time, day & daylight savings settings		
✓	Check conflict monitor by actual conflicts with recording conflict monitor tester <sup>2</sup>		
✓	Check and verify communications to master controller and ID number of controller		
✓	Verify the time settings in the local to match the master		
✓	Verify vehicle and pedestrian calls		
✓	Check controller to verify it operates in the mode selected by the supervisory master		
✓	Disconnect from the master supervisory system and check for "free" or backup operation		
✓	Check load switches, flasher and relays for proper fit into socket		
✓	Wipe dust off controller, detectors, and auxiliary equipment		
✓	Check indicator lamps on controller, loop amplifiers and other electronics in cabinet		
✓	Check for electrical wiring plan, Traffic Signal sequencing plan and timing chart. Notify PANYNJ if missing		
N/A	Check and verify operation of UPS equipment. Restore operation as required		
N/A	Verify automatic transfer switch operation		

**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/10)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT      Date: May 6, 2014  
 Int. No: EWR-TA-303      Start Time: 8:30  
 Location: Terminal A HOV at Pedestrian Crossing 1      Finish Time: 13:30  
 Contractor: Jen Electric, Inc.      Signal Technician: JD, JR, RM, FDD

OK	TASK	DEFICIENCY NOTED	DEFICIENCY CORRECTED
N/A	Verify incoming line voltage		
N/A	Verify DC output to batteries		
N/A	Verify AC output on inverter		
N/A	Check electrical connections		
N/A	Test system via simulated power outage at cabinet		
✓	Note and record make, model, firmware version, and serial number for controllers, conflict monitors and other major components		

**Miscellaneous Tasks**

✓	Check splice box & pull box for proper grade		
✓	Check splice box & pull box ground rod, clean and tighten conduit clamp as required		
	Remove foreign material from junction boxes, pull boxes, & hand holes	JB'S FILLED WITH WATER; PUMPED OUT	YES
✓	Check the integrity of splices		

**OTHER**

1. ALL EXISTING VEHICULAR SIGNAL HEADS, VISORS, LED MODULES, HANGERS, AND HARDWARE WERE REPLACED ON APRIL 27, 2014 UNDER PROJECT WORK CATEGORY OF CONTRACT.

RECORDED MAKE, MODEL, AND SERIAL NUMBERS:

CONTROLLER: PEEK, 3000E FIRMWARE VERSION 5074 5.0, S/N 21114072 CMU: EDI, SSM-12LEC, S/N 110508964

Signature:

Date:

1 - Malfunctioning loop amplifiers shall be temporarily replaced by an amplifier of known quality to isolate the problem. Replacement of amplifiers that are determined to be inoperable shall be performed only when directed by PANYNJ. Only loops that are determined to be inoperable shall be tested in accordance with the specifications when directed by the Manager.

2 - All conflict monitors shall be tested in accordance with the provisions in the specifications.

3 - In order to insure that all maintenance tasks have been performed and that all deficiencies have been identified and/or corrected, each line must be filled out and this page must be signed by the inspecting technician and the original copy shall be provided to Facility Electrical Maintenance Unit.

NEMA TSI Conflict Monitor Certification Test Report

Agency : PANYNJ  
Tested By : FDD  
Location : TERMINAL A HOV PED X-ING1  
Date / Time : 06 May 2014, 11:00



MONITOR INFORMATION

Manufacturer : EDI  
Model : EDI SSM-12LEC  
Serial Number : 110508964  
Device ID : TA-303

TEST EQUIPMENT

Software Version 6.3  
PCMT-2600 Firmware v7.6  
Serial Number : 2600-1611

SYSTEM TIMING TESTS

Interlock : PASS  
Output Relay : PASS  
Power Interrupt Timing : PASS 491ms  
Initial Flash Time : PASS 6 sec  
Start Delay Time : PASS 2641ms  
DC1 Monitor Timing : PASS  
DC2 Monitor Timing : PASS  
DC1 Monitor Auto Reset Timing : PASS 5608ms  
DC2 Monitor Auto Reset Timing : PASS 5600ms  
DC Monitor Inhibit : PASS  
CVM Transfer Timing : PASS  
CVM Auto Reset Timing : PASS 5191ms  
Conflict Timing : PASS 258ms  
Conflict Latching : PASS  
Redfail Timing : PASS 775ms  
Redfail Latching : PASS

VOLTAGE TESTS (12 CHANNELS)

RED Channels 70Vrms Sine Wave : PASS  
RED Channels 50Vrms Sine Wave : PASS  
GRN Channels 25Vrms Sine Wave : PASS  
YEL Channels 25Vrms Sine Wave : PASS  
WLK Channels 25Vrms Sine Wave : PASS  
GRN Channels 25Vrms Positive Rectified : PASS  
YEL Channels 25Vrms Positive Rectified : PASS  
WLK Channels 25Vrms Positive Rectified : PASS  
GRN Channels 25Vrms Negative Rectified : PASS  
YEL Channels 25Vrms Negative Rectified : PASS  
WLK Channels 25Vrms Negative Rectified : PASS  
GRN Channels 15Vrms Sine Wave : PASS  
YEL Channels 15Vrms Sine Wave : PASS  
WLK Channels 15Vrms Sine Wave : PASS  
GRN Channels 15Vrms Positive Rectified : PASS  
YEL Channels 15Vrms Positive Rectified : PASS  
WLK Channels 15Vrms Positive Rectified : PASS  
GRN Channels 15Vrms Negative Rectified : PASS  
YEL Channels 15Vrms Negative Rectified : PASS  
WLK Channels 15Vrms Negative Rectified : PASS  
GRN Channels 120Vrms Through 1500pF : PASS  
YEL Channels 120Vrms Through 1500pF : PASS  
WLK Channels 120Vrms Through 1500pF : PASS

OPTIONAL TESTS

GRN-GRN Permissives (Non-Programmed Card) : PASS  
GRN-YEL Permissives (Non-Programmed Card) : PASS  
GRN-WLK Permissives (Non-Programmed Card) : PASS  
YEL-GRN Permissives (Non-Programmed Card) : PASS  
YEL-YEL Permissives (Non-Programmed Card) : PASS  
YEL-WLK Permissives (Non-Programmed Card) : PASS  
WLK-GRN Permissives (Non-Programmed Card) : PASS  
WLK-YEL Permissives (Non-Programmed Card) : PASS  
WLK-WLK Permissives (Non-Programmed Card) : PASS  
RED-WLK-GRN-YEL Single Channel : PASS  
YEL Plus RED Interval : PASS  
GRN-YEL Dual Display : PASS  
RED-GRN Dual Display : PASS  
YEL-RED Dual Display : PASS  
Logic GND / Earth GND Isolation : PASS  
Power and RED Channel Indicators : PASS  
Power, Conflict, GRN Channel Indicators : PASS  
Power, Conflict and YEL Channel Indicators : PASS  
Dual Display Indicator : PASS

Redfail Indicator	: PASS
Short Yellow Indicator	: PASS
DC1 (24V1) Indicator	: PASS
DC2 (24V2) Indicator	: PASS
Manual Reset Button	: PASS

Test complete 06 May 2014, 11:32

*Passed All ATSI Certification Tests for NEMA TS1 Monitors.*

AC LINE EVENTS

>> AC Line Event Log  
>> Monitor ID #303 EWR LOC 303 TERM A1 PED-XING  
>> EDI Model SSM-12LEC, Firmware Type 01, Firmware V6.6, Comm V3.7  
>> RMS-Engine Firmware Type 00, RMS-Engine Firmware V0.0  
>> ECom Version 3.8.4  
>> Downloaded at 10:40:52 AM Tuesday, May 06, 2014  
>> Number of events = 40

---

AC EVENT #1 at:  
6:24:17 PM Saturday, July 20, 2013  
Restore AC  
AC Line Voltage = 97 Vrms

---

AC EVENT #2 at:  
6:24:17 PM Saturday, July 20, 2013  
Brownout AC  
AC Line Voltage = 71 Vrms

---

AC EVENT #3 at:  
8:57:34 AM Saturday, June 22, 2013  
Restore AC  
AC Line Voltage = 114 Vrms

---

AC EVENT #4 at:  
8:57:34 AM Saturday, June 22, 2013  
Brownout AC  
AC Line Voltage = 83 Vrms

---

AC EVENT #5 at:  
12:02:18 PM Friday, May 31, 2013  
Restore AC  
AC Line Voltage = 105 Vrms

---

AC EVENT #6 at:  
12:02:17 PM Friday, May 31, 2013  
Brownout AC  
AC Line Voltage = 61 Vrms

---

AC EVENT #7 at:  
2:12:19 PM Wednesday, May 15, 2013  
AC Power Up  
AC Line Voltage = 114 Vrms

---

AC EVENT #8 at:  
2:06:28 PM Wednesday, May 15, 2013  
Power Down  
AC Line Voltage = 0 Vrms

AC LINE EVENTS

-----  
AC EVENT #9 at:  
1:53:34 PM Wednesday, May 15, 2013  
Restore AC  
AC Line Voltage = 113 Vrms

-----  
AC EVENT #10 at:  
1:53:30 PM Wednesday, May 15, 2013  
Power Down  
AC Line Voltage = 0 Vrms

-----  
AC EVENT #11 at:  
1:52:46 PM Wednesday, May 15, 2013  
Restore AC  
AC Line Voltage = 113 Vrms

-----  
AC EVENT #12 at:  
1:52:41 PM Wednesday, May 15, 2013  
Power Down  
AC Line Voltage = 0 Vrms

-----  
AC EVENT #13 at:  
1:51:23 PM Wednesday, May 15, 2013  
Restore AC  
AC Line Voltage = 114 Vrms

-----  
AC EVENT #14 at:  
1:51:21 PM Wednesday, May 15, 2013  
Power Down  
AC Line Voltage = 0 Vrms

-----  
AC EVENT #15 at:  
1:51:13 PM Wednesday, May 15, 2013  
AC Power Up  
AC Line Voltage = 112 Vrms

-----  
AC EVENT #16 at:  
1:51:07 PM Wednesday, May 15, 2013  
Power Down  
AC Line Voltage = 0 Vrms

-----  
AC EVENT #17 at:  
1:51:05 PM Wednesday, May 15, 2013  
Restore Interrupt AC  
AC Line Voltage = 114 Vrms

AC LINE EVENTS

-----  
AC EVENT #18 at:  
1:51:05 PM Wednesday, May 15, 2013  
Power Down  
AC Line Voltage = 0 Vrms

-----  
AC EVENT #19 at:  
1:50:26 PM Wednesday, May 15, 2013  
AC Power Up  
AC Line Voltage = 111 Vrms

-----  
AC EVENT #20 at:  
1:44:23 PM Wednesday, May 15, 2013  
Power Down  
AC Line Voltage = 0 Vrms

-----  
AC EVENT #21 at:  
1:40:46 PM Wednesday, May 15, 2013  
AC Power Up  
AC Line Voltage = 111 Vrms

-----  
AC EVENT #22 at:  
1:09:48 PM Wednesday, May 15, 2013  
Power Down  
AC Line Voltage = 0 Vrms

-----  
AC EVENT #23 at:  
2:10:53 PM Friday, April 12, 2013  
Restore AC  
AC Line Voltage = 114 Vrms

-----  
AC EVENT #24 at:  
2:10:51 PM Friday, April 12, 2013  
Brownout AC  
AC Line Voltage = 86 Vrms

-----  
AC EVENT #25 at:  
4:19:54 PM Tuesday, October 30, 2012  
AC Power Up  
AC Line Voltage = 119 Vrms

-----  
AC EVENT #26 at:  
8:53:56 PM Monday, October 29, 2012  
Power Down  
AC Line Voltage = 0 Vrms

AC LINE EVENTS

---

AC EVENT #27 at:  
4:56:46 PM Wednesday, July 18, 2012  
Restore AC  
AC Line Voltage = 109 Vrms

---

AC EVENT #28 at:  
4:56:44 PM Wednesday, July 18, 2012  
Brownout AC  
AC Line Voltage = 83 Vrms

---

AC EVENT #29 at:  
8:17:43 AM Monday, June 25, 2012  
Restore AC  
AC Line Voltage = 112 Vrms

---

AC EVENT #30 at:  
8:17:43 AM Monday, June 25, 2012  
Brownout AC  
AC Line Voltage = 87 Vrms

---

AC EVENT #31 at:  
2:10:24 PM Friday, June 22, 2012  
Restore AC  
AC Line Voltage = 109 Vrms

---

AC EVENT #32 at:  
2:10:23 PM Friday, June 22, 2012  
Brownout AC  
AC Line Voltage = 82 Vrms

---

AC EVENT #33 at:  
5:01:14 PM Tuesday, May 29, 2012  
AC Power Up  
AC Line Voltage = 113 Vrms

---

AC EVENT #34 at:  
4:10:52 PM Tuesday, May 29, 2012  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #35 at:  
3:44:12 PM Tuesday, May 29, 2012  
Restore AC  
AC Line Voltage = 112 Vrms

AC LINE EVENTS

---

AC EVENT #36 at:  
3:44:07 PM Tuesday, May 29, 2012  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #37 at:  
3:43:23 PM Tuesday, May 29, 2012  
Restore AC  
AC Line Voltage = 112 Vrms

---

AC EVENT #38 at:  
3:43:18 PM Tuesday, May 29, 2012  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #39 at:  
3:42:03 PM Tuesday, May 29, 2012  
Restore AC  
AC Line Voltage = 112 Vrms

---

AC EVENT #40 at:  
3:42:00 PM Tuesday, May 29, 2012  
Power Down  
AC Line Voltage = 0 Vrms

---

CHRONO

>> Chronological Event Log  
>> Monitor ID #303 EWR LOC 303 TERM A1 PED-XING  
>> EDI Model SSM-12LEC, Firmware Type 01, Firmware V6.6, Comm V3.7  
>> RMS-Engine Firmware Type 00, RMS-Engine Firmware V0.0  
>> ECom Version 3.8.4  
>> Downloaded at 10:40:55 AM Tuesday, May 06, 2014  
>> Number of Configuration Change Events = 9  
>> Number of Monitor Reset Events = 25  
>> Number of AC Line Events = 40  
>> Number of Previous Fail Events = 25

-----  
MONITOR NON-LATCHED FAULT RESET EVENT #1 at:  
10:08:32 AM Tuesday, May 06, 2014

-----  
PREVIOUS FAIL EVENT #1 at:  
10:08:24 AM Tuesday, May 06, 2014  
Fault = 24V-1 & 24V-2 Fault

Channel Status:

ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R	R	R	R	R	R
	.	.	.	.	.	.	.	.	.	.	.	.
	:	:	:	:	:	:	:	:	:	:	:	:
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	118	117	118	118	117	118	117	118	118	118	117	118
Y:	0	5	0	0	0	0	0	0	0	0	0	0
G:	0	4	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	5	0	0	0	0	0	0	0	0

AC Line = 117 Vrms @ 60Hz  
Red Enable = Active (116 Vrms)  
Temperature = 76 F

-----  
MONITOR NON-LATCHED FAULT RESET EVENT #2 at:  
6:24:24 PM Saturday, July 20, 2013

-----  
PREVIOUS FAIL EVENT #2 at:  
6:24:23 PM Saturday, July 20, 2013  
Fault = CVM Fault

Channel Status:

ch:	1	2	3	4	5	6	7	8	9	10	11	12
	.	.	.	.	.	.	.	.	.	.	.	.
	.	Y	.	.	.	.	.	.	.	.	.	.
	:	:	:	:	:	:	:	:	:	:	:	:
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	0	0	0	0	0	0	0	0	0	0	1	0
Y:	0	117	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0

W: 0 0 0 0 0 0 0 0 0 0 CHRONO 0 0 0 0

AC Line = 117 Vrms @ 60Hz  
Red Enable = Off (0 Vrms)  
Temperature = 102 F

---

AC EVENT #1 at:  
6:24:17 PM Saturday, July 20, 2013  
Restore AC  
AC Line Voltage = 97 Vrms

---

AC EVENT #2 at:  
6:24:17 PM Saturday, July 20, 2013  
Brownout AC  
AC Line Voltage = 71 Vrms

---

MONITOR NON-LATCHED FAULT RESET EVENT #3 at:  
8:57:41 AM Saturday, June 22, 2013

---

PREVIOUS FAIL EVENT #3 at:  
8:57:40 AM Saturday, June 22, 2013  
Fault = CVM Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
: . Y . . . . . . . . . . . .  
: . . . . . . . . . . . . . . . .  
: . . . . . . . . . . . . . . . .

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 0 0 0 0 0 0 0 0 0 0 0 0  
Y: 0 116 0 0 0 0 0 0 0 0 0 0  
G: 0 0 0 0 0 0 0 0 0 0 0 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 116 Vrms @ 60Hz  
Red Enable = Off (0 Vrms)  
Temperature = 85 F

---

AC EVENT #3 at:  
8:57:34 AM Saturday, June 22, 2013  
Restore AC  
AC Line Voltage = 114 Vrms

---

AC EVENT #4 at:  
8:57:34 AM Saturday, June 22, 2013  
Brownout AC  
AC Line Voltage = 83 Vrms



CHRONO

```
*> . X . . . . .
      GY Enable Switch = ON
*>  LEDguard Enable Switch = ON
      Watchdog Enable Switch = OFF
      Walk Disable Switch = OFF
      CVM Latch Enable Switch = OFF
      24V Latch Enable Switch = OFF
      CVM Log Disable Switch = OFF
      Minimum Flash Time = 6 seconds
      24 Volt Inhibit = OFF
      Flashing Yellow Arrow Ch = None
      Configuration Check Value = 65426
```

AC EVENT #7 at:  
 2:12:19 PM Wednesday, May 15, 2013  
 AC Power Up  
 AC Line Voltage = 114 Vrms

AC EVENT #8 at:  
 2:06:28 PM Wednesday, May 15, 2013  
 Power Down  
 AC Line Voltage = 0 Vrms

MONITOR MANUAL RESET EVENT #5 at:  
 2:06:09 PM Wednesday, May 15, 2013

PREVIOUS FAIL EVENT #5 at:  
 2:06:02 PM Wednesday, May 15, 2013  
 Fault = Conflict Fault

Channel Status:

ch:	1	2	3	4	5	6	7	8	9	10	11	12
	*	*										
	R	R	R	R	R	R	R	R	R	R	R	R
	.	.	.	.	.	.	.	.	.	.	.	.
	G	G	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	116	115	116	115	116	116	116	116	116	115	116	116
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	115	114	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
 Red Enable = Off (0 Vrms)  
 Temperature = 71 F

MONITOR EXTERNAL RESET EVENT #6 at:  
 2:05:56 PM Wednesday, May 15, 2013

CHRONO

-----  
PREVIOUS FAIL EVENT #6 at:  
2:05:55 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R R R R R R R R R R R \*

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 121 121 121 121 120 121 120 121 121 121 120 121  
Y: 0 0 0 0 0 0 0 0 0 0 0 119  
G: 0 0 0 0 0 0 0 0 0 0 0 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 71 F

-----  
MONITOR EXTERNAL RESET EVENT #7 at:  
2:05:48 PM Wednesday, May 15, 2013

-----  
PREVIOUS FAIL EVENT #7 at:  
2:05:47 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R R R R R R R R R R R \*

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 121 121 121 121 120 121 120 120 121 120 120 121  
Y: 0 0 0 0 0 0 0 0 0 0 120 0  
G: 0 0 0 0 0 0 0 0 0 0 0 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 71 F

-----  
MONITOR EXTERNAL RESET EVENT #8 at:  
2:05:40 PM Wednesday, May 15, 2013

-----  
PREVIOUS FAIL EVENT #8 at:

CHRONO

2:05:39 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R	R	R	R	R	R
	.	.	.	.	.	.	.	.	.	Y	.	.
	.	.	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	121	121	121	120	121	120	121	121	120	120	121
Y:	0	0	0	0	0	0	0	0	0	119	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 71 F

-----  
MONITOR EXTERNAL RESET EVENT #9 at:  
2:05:32 PM Wednesday, May 15, 2013

-----  
PREVIOUS FAIL EVENT #9 at:  
2:05:31 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R	R	R	R	R	R
	.	.	.	.	.	.	.	.	Y	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	120	120	120	120	119	120	120	119	120	119	119	120
Y:	0	0	0	0	0	0	0	0	119	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 72 F

-----  
MONITOR EXTERNAL RESET EVENT #10 at:  
2:05:24 PM Wednesday, May 15, 2013

-----  
PREVIOUS FAIL EVENT #10 at:  
2:05:23 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

CHRONO

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R	R*	R	R	R	R
	.	.	.	.	.	.	.	Y	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	121	121	121	120	121	120	121	121	121	120	121
Y:	0	0	0	0	0	0	0	120	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
 Red Enable = Active (115 Vrms)  
 Temperature = 71 F

MONITOR EXTERNAL RESET EVENT #11 at:  
 2:05:16 PM Wednesday, May 15, 2013

PREVIOUS FAIL EVENT #11 at:  
 2:05:15 PM Wednesday, May 15, 2013  
 Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R*	R	R	R	R	R
	.	.	.	.	.	.	Y	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	121	121	121	120	121	120	121	121	121	120	121
Y:	0	0	0	0	0	0	119	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
 Red Enable = Active (115 Vrms)  
 Temperature = 70 F

MONITOR EXTERNAL RESET EVENT #12 at:  
 2:05:08 PM Wednesday, May 15, 2013

PREVIOUS FAIL EVENT #12 at:  
 2:05:07 PM Wednesday, May 15, 2013  
 Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
						*						

```

          R   R   R   R   R   R   R   R   CHRONO   R   R   R   R
          .   .   .   .   .   Y   .   .   .   .   .   .   .
          .   .   .   .   .   .   .   .   .   .   .   .   .
          .   .   .   .   .   .   .   .   .   .   .   .   .

```

Channel RMS Voltages:

```

Ch:  1  2  3  4  5  6  7  8  9  10  11  12
R: 121 121 121 120 120 121 120 120 121 120 119 121
Y:  0  0  0  0  0 119  0  0  0  0  0  0
G:  0  0  0  0  0  0  0  0  0  0  0  0
W:  0  0  0  0  0  0  0  0  0  0  0  0

```

AC Line = 114 Vrms @ 60Hz  
 Red Enable = Active (115 Vrms)  
 Temperature = 70 F

MONITOR EXTERNAL RESET EVENT #13 at:  
 2:05:00 PM Wednesday, May 15, 2013

PREVIOUS FAIL EVENT #13 at:  
 2:04:59 PM Wednesday, May 15, 2013  
 Fault = Dual Indication Fault

Channel Status:

```

Ch:  1  2  3  4  5  6  7  8  9  10  11  12
      R  R  R  R  *  R  R  R  R  R  R  R
      .  .  .  .  Y  .  .  .  .  .  .  .
      .  .  .  .  .  .  .  .  .  .  .  .

```

Channel RMS Voltages:

```

Ch:  1  2  3  4  5  6  7  8  9  10  11  12
R: 121 121 121 121 120 121 120 121 121 121 120 121
Y:  0  0  0  0 119  0  0  0  0  0  0  0
G:  0  0  0  0  0  0  0  0  0  0  0  0
W:  0  0  0  0  0  0  0  0  0  0  0  0

```

AC Line = 114 Vrms @ 60Hz  
 Red Enable = Active (115 Vrms)  
 Temperature = 71 F

MONITOR EXTERNAL RESET EVENT #14 at:  
 2:04:52 PM Wednesday, May 15, 2013

PREVIOUS FAIL EVENT #14 at:  
 2:04:51 PM Wednesday, May 15, 2013  
 Fault = Dual Indication Fault

Channel Status:

```

Ch:  1  2  3  4  5  6  7  8  9  10  11  12
      R  R  R  *  R  R  R  R  R  R  R  R
      .  .  .  Y  .  .  .  .  .  .  .  .
      .  .  .  .  .  .  .  .  .  .  .  .

```

CHRONO

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	120	121	120	119	120	120	120	120	120	119	121
Y:	0	0	0	119	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 71 F

---

MONITOR EXTERNAL RESET EVENT #15 at:  
2:04:44 PM Wednesday, May 15, 2013

---

PREVIOUS FAIL EVENT #15 at:  
2:04:43 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
			*									
	R	R	R	R	R	R	R	R	R	R	R	R
	.	.	Y	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	121	121	121	120	121	120	120	121	121	120	121
Y:	0	0	119	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 70 F

---

MONITOR EXTERNAL RESET EVENT #16 at:  
2:04:35 PM Wednesday, May 15, 2013

---

PREVIOUS FAIL EVENT #16 at:  
2:04:34 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
		*										
	R	R	R	R	R	R	R	R	R	R	R	R
	.	Y	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

	CHRONO											
Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	120	121	120	120	121	120	120	120	121	120	121
Y:	0	120	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
 Red Enable = Active (115 Vrms)  
 Temperature = 71 F

MONITOR EXTERNAL RESET EVENT #17 at:  
 2:04:27 PM Wednesday, May 15, 2013

PREVIOUS FAIL EVENT #17 at:  
 2:04:26 PM Wednesday, May 15, 2013  
 Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	*											
R	R	R	R	R	R	R	R	R	R	R	R	R
Y	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	121	121	120	120	120	120	120	120	120	119	121
Y:	119	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
 Red Enable = Active (115 Vrms)  
 Temperature = 71 F

MONITOR EXTERNAL RESET EVENT #18 at:  
 2:04:12 PM Wednesday, May 15, 2013

PREVIOUS FAIL EVENT #18 at:  
 2:04:11 PM Wednesday, May 15, 2013  
 Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
												*
R	R	R	R	R	R	R	R	R	R	R	R	R
.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	G
.	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	120	121	120	120	120	120	120	120	120	119	121
Y:	0	0	0	0	0	0	0	0	0	0	0	0

										CHRONO		
G:	0	0	0	0	0	0	0	0	0	0	0	118
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
 Red Enable = Active (115 Vrms)  
 Temperature = 70 F

MONITOR EXTERNAL RESET EVENT #19 at:  
 2:04:10 PM Wednesday, May 15, 2013

PREVIOUS FAIL EVENT #19 at:  
 2:04:09 PM Wednesday, May 15, 2013  
 Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R	R	R	R	R	R
	.	.	.	.	.	.	.	.	.	.	G	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	121	121	120	120	120	120	120	120	120	119	121
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	119	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
 Red Enable = Active (115 Vrms)  
 Temperature = 70 F

MONITOR EXTERNAL RESET EVENT #20 at:  
 2:04:08 PM Wednesday, May 15, 2013

PREVIOUS FAIL EVENT #20 at:  
 2:04:06 PM Wednesday, May 15, 2013  
 Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R	R	R	R	R	R
	.	.	.	.	.	.	.	.	.	G	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	120	121	120	120	120	120	120	120	120	119	121
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	119	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

CHRONO  
AC Line = 114 Vrms @ 60HZ  
Red Enable = Active (115 Vrms)  
Temperature = 72 F

---

MONITOR EXTERNAL RESET EVENT #21 at:  
2:04:05 PM Wednesday, May 15, 2013

---

PREVIOUS FAIL EVENT #21 at:  
2:04:04 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R R R R R R R R \* R R R  
: : : : : : : : G : : :  
: : : : : : : : : : : : :  
: : : : : : : : : : : : :

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 121 120 121 120 120 121 120 120 120 120 119 121  
Y: 0 0 0 0 0 0 0 0 0 0 0 0  
G: 0 0 0 0 0 0 0 0 118 0 0 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 73 F

---

MONITOR EXTERNAL RESET EVENT #22 at:  
2:04:03 PM Wednesday, May 15, 2013

---

PREVIOUS FAIL EVENT #22 at:  
2:04:02 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R R R R R R R R \* R R R  
: : : : : : : : G : : :  
: : : : : : : : : : : : :  
: : : : : : : : : : : : :

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 121 120 121 120 120 121 120 120 120 120 119 121  
Y: 0 0 0 0 0 0 0 0 0 0 0 0  
G: 0 0 0 0 0 0 0 0 119 0 0 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 70 F

CHRONO

-----  
MONITOR EXTERNAL RESET EVENT #23 at:  
2:04:01 PM Wednesday, May 15, 2013  
-----

PREVIOUS FAIL EVENT #23 at:  
2:04:00 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R*	R	R	R	R	R
	.	.	.	.	.	.	G	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	120	121	120	120	120	120	120	120	120	119	121
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	120	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 60 F

-----  
MONITOR EXTERNAL RESET EVENT #24 at:  
2:03:59 PM Wednesday, May 15, 2013  
-----

PREVIOUS FAIL EVENT #24 at:  
2:03:58 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R*	R	R	R	R	R	R
	.	.	.	.	.	G	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	121	121	120	120	121	120	120	120	120	120	121
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	120	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 74 F

CHRONO

MONITOR EXTERNAL RESET EVENT #25 at:  
2:03:57 PM Wednesday, May 15, 2013

---

PREVIOUS FAIL EVENT #25 at:  
2:03:56 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
					*							
	R	R	R	R	R	R	R	R	R	R	R	R
	.	.	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	G	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	120	121	120	120	120	120	120	120	120	119	121
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	120	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 70 F

---

AC EVENT #9 at:  
1:53:34 PM Wednesday, May 15, 2013  
Restore AC  
AC Line Voltage = 113 Vrms

---

AC EVENT #10 at:  
1:53:30 PM Wednesday, May 15, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #11 at:  
1:52:46 PM Wednesday, May 15, 2013  
Restore AC  
AC Line Voltage = 113 Vrms

---

AC EVENT #12 at:  
1:52:41 PM Wednesday, May 15, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #13 at:  
1:51:23 PM Wednesday, May 15, 2013  
Restore AC  
AC Line Voltage = 114 Vrms

CHRONO

-----  
AC EVENT #14 at:  
1:51:21 PM Wednesday, May 15, 2013  
Power Down  
AC Line Voltage = 0 Vrms

-----  
AC EVENT #15 at:  
1:51:13 PM Wednesday, May 15, 2013  
AC Power Up  
AC Line Voltage = 112 Vrms

-----  
AC EVENT #16 at:  
1:51:07 PM Wednesday, May 15, 2013  
Power Down  
AC Line Voltage = 0 Vrms

-----  
AC EVENT #17 at:  
1:51:05 PM Wednesday, May 15, 2013  
Restore Interrupt AC  
AC Line Voltage = 114 Vrms

-----  
AC EVENT #18 at:  
1:51:05 PM Wednesday, May 15, 2013  
Power Down  
AC Line Voltage = 0 Vrms

-----  
CONFIGURATION CHANGE #2 at:  
1:50:30 PM Wednesday, May 15, 2013  
Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*> X X X X X X X X X X X X

\*> GY Enable Switch = ON  
LEDguard Enable Switch = OFF  
Watchdog Enable Switch = OFF  
Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF

CHRONO

CVM Log Disable Switch = OFF  
Minimum Flash Time = 6 seconds  
24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 56247

---

AC EVENT #19 at:  
1:50:26 PM Wednesday, May 15, 2013  
AC Power Up  
AC Line Voltage = 111 Vrms

---

AC EVENT #20 at:  
1:44:23 PM Wednesday, May 15, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

CONFIGURATION CHANGE #3 at:  
1:40:50 PM Wednesday, May 15, 2013  
Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
*>	.	X	.	.	.	.	X	X	X	X	X	X

GY Enable Switch = ON  
LEDguard Enable Switch = ON  
Watchdog Enable Switch = OFF  
Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 6 seconds  
24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 18754

---

AC EVENT #21 at:  
1:40:46 PM Wednesday, May 15, 2013  
AC Power Up  
AC Line Voltage = 111 Vrms

---

CHRONO

AC EVENT #22 at:  
1:09:48 PM Wednesday, May 15, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #23 at:  
2:10:53 PM Friday, April 12, 2013  
Restore AC  
AC Line Voltage = 114 Vrms

---

AC EVENT #24 at:  
2:10:51 PM Friday, April 12, 2013  
Brownout AC  
AC Line Voltage = 86 Vrms

---

AC EVENT #25 at:  
4:19:54 PM Tuesday, October 30, 2012  
AC Power Up  
AC Line Voltage = 119 Vrms

---

AC EVENT #26 at:  
8:53:56 PM Monday, October 29, 2012  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #27 at:  
4:56:46 PM Wednesday, July 18, 2012  
Restore AC  
AC Line Voltage = 109 Vrms

---

AC EVENT #28 at:  
4:56:44 PM Wednesday, July 18, 2012  
Brownout AC  
AC Line Voltage = 83 Vrms

---

AC EVENT #29 at:  
8:17:43 AM Monday, June 25, 2012  
Restore AC  
AC Line Voltage = 112 Vrms

---

AC EVENT #30 at:  
8:17:43 AM Monday, June 25, 2012  
Brownout AC  
AC Line Voltage = 87 Vrms

---

CHRONO

AC EVENT #31 at:  
2:10:24 PM Friday, June 22, 2012  
Restore AC  
AC Line Voltage = 109 Vrms

---

AC EVENT #32 at:  
2:10:23 PM Friday, June 22, 2012  
Brownout AC  
AC Line Voltage = 82 Vrms

---

CONFIGURATION CHANGE #4 at:  
5:03:52 PM Tuesday, May 29, 2012  
Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*> . X . . . . .

GY Enable Switch = ON  
LEDguard Enable Switch = ON  
Watchdog Enable Switch = OFF  
Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 6 seconds  
24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 65426

---

CONFIGURATION CHANGE #5 at:  
5:02:21 PM Tuesday, May 29, 2012  
Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

CHRONO

Signal Sequence Monitor Switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*> . X . X . . . . . . . . . .

GY Enable Switch = ON  
\*> LEDguard Enable Switch = ON  
\*> Watchdog Enable Switch = OFF  
walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 6 seconds  
24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 65404

-----  
CONFIGURATION CHANGE #6 at:  
5:01:18 PM Tuesday, May 29, 2012

Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
X X X X X X X X X X X X X

GY Enable Switch = ON  
LEDguard Enable Switch = OFF  
Watchdog Enable Switch = ON  
walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 6 seconds  
\*> 24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 7100

-----  
AC EVENT #33 at:  
5:01:14 PM Tuesday, May 29, 2012  
AC Power Up  
AC Line Voltage = 113 Vrms

-----  
AC EVENT #34 at:  
4:10:52 PM Tuesday, May 29, 2012  
Power Down

AC Line Voltage = 0 Vrms

-----  
CONFIGURATION CHANGE #7 at:  
4:10:51 PM Tuesday, May 29, 2012

Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
X X X X X X X X X X X X

GY Enable Switch = ON  
LEDguard Enable Switch = OFF  
Watchdog Enable Switch = ON  
Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 6 seconds

\*> 24 Volt Inhibit = ON  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 56061

-----  
AC EVENT #35 at:  
3:44:12 PM Tuesday, May 29, 2012  
Restore AC  
AC Line Voltage = 112 Vrms

-----  
AC EVENT #36 at:  
3:44:07 PM Tuesday, May 29, 2012  
Power Down  
AC Line Voltage = 0 Vrms

-----  
AC EVENT #37 at:  
3:43:23 PM Tuesday, May 29, 2012  
Restore AC  
AC Line Voltage = 112 Vrms

-----  
AC EVENT #38 at:  
3:43:18 PM Tuesday, May 29, 2012  
Power Down  
AC Line Voltage = 0 Vrms

CHRONO

-----  
AC EVENT #39 at:  
3:42:03 PM Tuesday, May 29, 2012  
Restore AC  
AC Line Voltage = 112 Vrms  
-----

AC EVENT #40 at:  
3:42:00 PM Tuesday, May 29, 2012  
Power Down  
AC Line Voltage = 0 Vrms  
-----

CONFIGURATION CHANGE #8 at:  
3:41:10 PM Tuesday, May 29, 2012  
Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*> X X X X X X X X X X X X

GY Enable Switch = ON  
\*> LEDguard Enable Switch = OFF  
\*> Watchdog Enable Switch = ON  
\*> Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 6 seconds  
24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 7100  
-----

CONFIGURATION CHANGE #9 at:  
3:22:59 PM Tuesday, May 29, 2012  
Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels

CHRONO

Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor switches (X=Enable):  
ch: 1 2 3 4 5 6 7 8 9 10 11 12  
. X . X . . . . . . . . . .

GY Enable Switch = ON  
LEDguard Enable Switch = ON  
Watchdog Enable Switch = OFF  
Walk Disable Switch = ON  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 6 seconds  
24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 16248

---

CMU RESET

>> Monitor Reset Event Log  
>> Monitor ID #303 EWR LOC 303 TERM A1 PED-XING  
>> EDI Model SSM-12LEC, Firmware Type 01, Firmware V6.6, Comm V3.7  
>> RMS-Engine Firmware Type 00, RMS-Engine Firmware V0.0  
>> ECom Version 3.8.4  
>> Downloaded at 10:40:51 AM Tuesday, May 06, 2014  
>> Number of events = 25

-----  
MONITOR NON-LATCHED FAULT RESET EVENT #1 at:  
10:08:32 AM Tuesday, May 06, 2014

-----  
MONITOR NON-LATCHED FAULT RESET EVENT #2 at:  
6:24:24 PM Saturday, July 20, 2013

-----  
MONITOR NON-LATCHED FAULT RESET EVENT #3 at:  
8:57:41 AM Saturday, June 22, 2013

-----  
MONITOR NON-LATCHED FAULT RESET EVENT #4 at:  
2:12:26 PM Wednesday, May 15, 2013

-----  
MONITOR MANUAL RESET EVENT #5 at:  
2:06:09 PM Wednesday, May 15, 2013

-----  
MONITOR EXTERNAL RESET EVENT #6 at:  
2:05:56 PM Wednesday, May 15, 2013

-----  
MONITOR EXTERNAL RESET EVENT #7 at:  
2:05:48 PM Wednesday, May 15, 2013

-----  
MONITOR EXTERNAL RESET EVENT #8 at:  
2:05:40 PM Wednesday, May 15, 2013

-----  
MONITOR EXTERNAL RESET EVENT #9 at:  
2:05:32 PM Wednesday, May 15, 2013

-----  
MONITOR EXTERNAL RESET EVENT #10 at:  
2:05:24 PM Wednesday, May 15, 2013

-----  
MONITOR EXTERNAL RESET EVENT #11 at:  
2:05:16 PM Wednesday, May 15, 2013

CMU RESET

---

MONITOR EXTERNAL RESET EVENT #12 at:  
2:05:08 PM Wednesday, May 15, 2013

---

MONITOR EXTERNAL RESET EVENT #13 at:  
2:05:00 PM Wednesday, May 15, 2013

---

MONITOR EXTERNAL RESET EVENT #14 at:  
2:04:52 PM Wednesday, May 15, 2013

---

MONITOR EXTERNAL RESET EVENT #15 at:  
2:04:44 PM Wednesday, May 15, 2013

---

MONITOR EXTERNAL RESET EVENT #16 at:  
2:04:35 PM Wednesday, May 15, 2013

---

MONITOR EXTERNAL RESET EVENT #17 at:  
2:04:27 PM Wednesday, May 15, 2013

---

MONITOR EXTERNAL RESET EVENT #18 at:  
2:04:12 PM Wednesday, May 15, 2013

---

MONITOR EXTERNAL RESET EVENT #19 at:  
2:04:10 PM Wednesday, May 15, 2013

---

MONITOR EXTERNAL RESET EVENT #20 at:  
2:04:08 PM Wednesday, May 15, 2013

---

MONITOR EXTERNAL RESET EVENT #21 at:  
2:04:05 PM Wednesday, May 15, 2013

---

MONITOR EXTERNAL RESET EVENT #22 at:  
2:04:03 PM Wednesday, May 15, 2013

---

MONITOR EXTERNAL RESET EVENT #23 at:  
2:04:01 PM Wednesday, May 15, 2013

---

MONITOR EXTERNAL RESET EVENT #24 at:









CONFIG

Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

ch: 1 2 3 4 5 6 7 8 9 10 11 12  
X X X X X X X X X X X X

GY Enable Switch = ON  
LEDguard Enable Switch = OFF  
Watchdog Enable Switch = ON  
Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 6 seconds  
\*> 24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 7100

---

CONFIGURATION CHANGE #7 at:  
4:10:51 PM Tuesday, May 29, 2012

Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

ch: 1 2 3 4 5 6 7 8 9 10 11 12  
X X X X X X X X X X X X

GY Enable Switch = ON  
LEDguard Enable Switch = OFF  
Watchdog Enable Switch = ON  
Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 6 seconds  
\*> 24 Volt Inhibit = ON  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 56061

---

CONFIGURATION CHANGE #8 at:  
3:41:10 PM Tuesday, May 29, 2012  
Permissive Programming:

CONFIG

Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*> X X X X X X X X X X X X

GY Enable Switch = ON  
\*> LEDguard Enable Switch = OFF  
\*> Watchdog Enable Switch = ON  
\*> Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 6 seconds  
24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 7100

-----  
CONFIGURATION CHANGE #9 at:  
3:22:59 PM Tuesday, May 29, 2012

Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
. X . X . . . . .

GY Enable Switch = ON  
LEDguard Enable Switch = ON  
Watchdog Enable Switch = OFF  
Walk Disable Switch = ON  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 6 seconds  
24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 16248

CONFIG

---

PREV FAIL

>> Previous Fail Event Log  
>> Monitor ID #303 EWR LOC 303 TERM A1 PED-XING  
>> EDI Model SSM-12LEC, Firmware Type 01, Firmware V6.6, Comm V3.7  
>> RMS-Engine Firmware Type 00, RMS-Engine Firmware V0.0  
>> ECom Version 3.8.4  
>> Downloaded at 10:40:55 AM Tuesday, May 06, 2014  
>> Number of events = 25

-----  
PREVIOUS FAIL EVENT #1 at:  
10:08:24 AM Tuesday, May 06, 2014  
Fault = 24V-1 & 24V-2 Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R R R R R R R R R R R R  
. . . . .  
. . . . .

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 118 117 118 118 117 118 117 118 118 118 117 118  
Y: 0 5 0 0 0 0 0 0 0 0 0 0  
G: 0 4 0 0 0 0 0 0 0 0 0 0  
W: 0 0 0 5 0 0 0 0 0 0 0 0

AC Line = 117 Vrms @ 60Hz  
Red Enable = Active (116 Vrms)  
Temperature = 76 F

-----  
PREVIOUS FAIL EVENT #2 at:  
6:24:23 PM Saturday, July 20, 2013  
Fault = CVM Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
. . . . .  
. Y . . . . .  
. . . . .  
. . . . .

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 0 0 0 0 0 0 0 0 0 0 1 0  
Y: 0 117 0 0 0 0 0 0 0 0 0 0  
G: 0 0 0 0 0 0 0 0 0 0 0 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 117 Vrms @ 60Hz  
Red Enable = Off (0 Vrms)  
Temperature = 102 F

-----  
PREVIOUS FAIL EVENT #3 at:  
8:57:40 AM Saturday, June 22, 2013  
Fault = CVM Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
.	.	.	.	.	.	.	.	.	.	.	.	.
.	Y	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	0	0	0	0	0	0	0	0	0	0	0	0
Y:	0	116	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 116 Vrms @ 60Hz  
 Red Enable = Off (0 Vrms)  
 Temperature = 85 F

PREVIOUS FAIL EVENT #4 at:  
 2:12:24 PM Wednesday, May 15, 2013  
 Fault = CVM Fault

Channel Status:	Ch:	1	2	3	4	5	6	7	8	9	10	11	12
.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	0	0	0	0	0	0	0	0	0	0	0	0
Y:	0	2	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 115 Vrms @ 60Hz  
 Red Enable = Off (0 Vrms)  
 Temperature = 67 F

PREVIOUS FAIL EVENT #5 at:  
 2:06:02 PM Wednesday, May 15, 2013  
 Fault = Conflict Fault

Channel Status:	Ch:	1	2	3	4	5	6	7	8	9	10	11	12
*	*	.	.	.	.	.	.	.	.	.	.	.	.
R	R	R	R	R	R	R	R	R	R	R	R	R	R
.	.	.	.	.	.	.	.	.	.	.	.	.	.
G	G	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	116	115	116	115	116	116	116	116	116	115	116	116
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	115	114	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz

PREV FAIL

Red Enable = Off (0 Vrms)  
Temperature = 71 F

PREVIOUS FAIL EVENT #6 at:  
2:05:55 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R	R	R	R	R	R
	.	.	.	.	.	.	.	.	.	.	.	Y
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	121	121	121	120	121	120	121	121	121	120	121
Y:	0	0	0	0	0	0	0	0	0	0	0	119
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 71 F

PREVIOUS FAIL EVENT #7 at:  
2:05:47 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:

ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R	R	R	R	R	R
	.	.	.	.	.	.	.	.	.	.	Y	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	121	121	121	120	121	120	120	121	120	120	121
Y:	0	0	0	0	0	0	0	0	0	0	120	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 71 F

PREVIOUS FAIL EVENT #8 at:  
2:05:39 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:

ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R	R	R	R	R	R



PREV FAIL

Temperature = 71 F

-----  
PREVIOUS FAIL EVENT #11 at:  
2:05:15 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R R R R R R R R R R R R  
. . . . . Y . . . . .  
. . . . . . . . . . .  
. . . . . . . . . . .

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 121 121 121 121 120 121 120 121 121 121 120 121  
Y: 0 0 0 0 0 0 119 0 0 0 0 0  
G: 0 0 0 0 0 0 0 0 0 0 0 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 70 F

-----  
PREVIOUS FAIL EVENT #12 at:  
2:05:07 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R R R R R R R R R R R R  
. . . . . Y . . . . .  
. . . . . . . . . . .  
. . . . . . . . . . .

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 121 121 121 120 120 121 120 120 121 120 119 121  
Y: 0 0 0 0 0 119 0 0 0 0 0 0  
G: 0 0 0 0 0 0 0 0 0 0 0 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 70 F

-----  
PREVIOUS FAIL EVENT #13 at:  
2:04:59 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R R R R R R R R R R R R  
. . . . . Y . . . . .

PREV FAIL

: : : : : : : : : : : : : :

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	121	121	121	120	121	120	121	121	121	120	121
Y:	0	0	0	0	119	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
 Red Enable = Active (115 Vrms)  
 Temperature = 71 F

PREVIOUS FAIL EVENT #14 at:  
 2:04:51 PM Wednesday, May 15, 2013  
 Fault = Dual Indication Fault

Channel Status:

ch:	1	2	3	4	5	6	7	8	9	10	11	12
				*								
R	R	R	R	R	R	R	R	R	R	R	R	R
.	.	.	Y	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	120	121	120	119	120	120	120	120	120	119	121
Y:	0	0	0	119	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
 Red Enable = Active (115 Vrms)  
 Temperature = 71 F

PREVIOUS FAIL EVENT #15 at:  
 2:04:43 PM Wednesday, May 15, 2013  
 Fault = Dual Indication Fault

Channel Status:

ch:	1	2	3	4	5	6	7	8	9	10	11	12
			*									
R	R	R	R	R	R	R	R	R	R	R	R	R
.	.	Y	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	121	121	121	120	121	120	120	121	121	120	121
Y:	0	0	119	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
 Red Enable = Active (115 Vrms)  
 Temperature = 70 F

PREV FAIL

-----  
PREVIOUS FAIL EVENT #16 at:  
2:04:34 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*  
R R R R R R R R R R R R  
. Y . . . . . . . . . . . .  
. . . . . . . . . . . . . .  
. . . . . . . . . . . . . .

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 121 120 121 120 120 121 120 120 120 121 120 121  
Y: 0 120 0 0 0 0 0 0 0 0 0 0  
G: 0 0 0 0 0 0 0 0 0 0 0 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 71 F

-----  
PREVIOUS FAIL EVENT #17 at:  
2:04:26 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*  
R R R R R R R R R R R R  
Y . . . . . . . . . . . .  
. . . . . . . . . . . . . .  
. . . . . . . . . . . . . .

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 121 121 121 120 120 120 120 120 120 120 119 121  
Y: 119 0 0 0 0 0 0 0 0 0 0 0  
G: 0 0 0 0 0 0 0 0 0 0 0 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 71 F

-----  
PREVIOUS FAIL EVENT #18 at:  
2:04:11 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*  
R R R R R R R R R R R R  
. . . . . . . . . . . . . G  
. . . . . . . . . . . . . .

PREV FAIL

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	120	121	120	120	120	120	120	120	120	119	121
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	118
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 70 F

PREVIOUS FAIL EVENT #19 at:

2:04:09 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
											*	
R	R	R	R	R	R	R	R	R	R	R	R	R
.	.	.	.	.	.	.	.	.	.	.	G	.
.	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	121	121	120	120	120	120	120	120	120	119	121
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	119	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 70 F

PREVIOUS FAIL EVENT #20 at:

2:04:06 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
										*		
R	R	R	R	R	R	R	R	R	R	R	R	R
.	.	.	.	.	.	.	.	.	.	G	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	120	121	120	120	120	120	120	120	120	119	121
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	119	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 72 F

PREV FAIL

---

PREVIOUS FAIL EVENT #21 at:  
2:04:04 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:  
ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R R R R R R R R \* R R R R  
. . . . . . . . G . . . .  
. . . . . . . . . . . . . . .

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 121 120 121 120 120 121 120 120 120 120 119 121  
Y: 0 0 0 0 0 0 0 0 0 0 0 0  
G: 0 0 0 0 0 0 0 0 118 0 0 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 73 F

---

PREVIOUS FAIL EVENT #22 at:  
2:04:02 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:  
ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R R R R R R R R \* R R R R  
. . . . . . . . G . . . .  
. . . . . . . . . . . . . . .

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 121 120 121 120 120 121 120 120 120 120 119 121  
Y: 0 0 0 0 0 0 0 0 0 0 0 0  
G: 0 0 0 0 0 0 0 119 0 0 0 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 70 F

---

PREVIOUS FAIL EVENT #23 at:  
2:04:00 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:  
ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R R R R R R R R \* R R R R  
. . . . . . . . G . . . .  
. . . . . . . . . . . . . . .

PREV FAIL

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	120	121	120	120	120	120	120	120	120	119	121
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	120	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 60 F

---

PREVIOUS FAIL EVENT #24 at:

2:03:58 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:

ch:	1	2	3	4	5	6	7	8	9	10	11	12
						*						
	R	R	R	R	R	R	R	R	R	R	R	R
	.	.	.	.	.	G	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	121	121	120	120	121	120	120	120	120	120	121
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	120	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 74 F

---

PREVIOUS FAIL EVENT #25 at:

2:03:56 PM Wednesday, May 15, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
					*							
	R	R	R	R	R	R	R	R	R	R	R	R
	.	.	.	.	G	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	121	120	121	120	120	120	120	120	120	120	119	121
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	120	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 70 F

---

**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/10)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT      Date: May 5, 2014  
 Int. No: EWR-TA-304      Start Time: 8:00  
 Location: Terminal A HOV at Pedestrian Crossing 2      Finish Time: 12:30  
 Contractor: Jen Electric, Inc.      Signal Technician: JD; JR, FDD

OK	TASK	DEFICIENCY NOTED	DEFICIENCY CORRECTED
----	------	------------------	----------------------

**Cabinet**

✓	Replace cabinet air filter; Cleaned perm filter		
✓	Check operation of fan and thermostat		
✓	Vacuum control cabinet to remove all dust and debris		
✓	Check operation of cabinet light and switch; replace if necessary		
✓	Check bonding and resistance to ground rod, clean and re-tighten as required		
✓	Measure and record incoming AC service voltage at input side of mercurv/solid state relay ( V = 115.8 )		
✓	Check and tighten all terminal connections		
✓	Check all Police functions: Flash Switch and Manual Control		
✓	Test & reset ground fault receptacles, circuit breakers and all equipment fuses, replace as required		
✓	Check radio interference filter and surge arrestor, replace as required		
✓	Lubricate hinges and locks		
✓	Tighten anchor bolts as required		
✓	Check for water accumulation in the cabinet, seal as required. Replace duct seal as required		
✓	Verify that all spare conductors are landed on spare terminal blocks or taped off		
✓	Test and reset GFCI receptacle on power distribution panel; replace as required		
✓	Check door gaskets and realign or replace as required		

**Signal Heads**

—	Check safety chains to make sure it is securely fastened	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
—	Check signal and mast arm sign mounting hardware re-tighten as required	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
—	Check Vehicular and Pedestrian heads LED module failures. Notify PANYNJ	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
N/A	Re-lamp all incandescent signals (Excludes LED & Optically Programmed)		
—	Check for cracked and/or damaged mounting brackets	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
—	Check gaskets for water infiltration and deterioration	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	

**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/10)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT

Date: May 5, 2014

Int. No: EWR-TA-304

Start Time: 8:00

Location: Terminal A HOV at Pedestrian Crossing 2

Finish Time: 12:30

Contractor: Jen Electric, Inc.

Signal Technician: JD; JR, FDD

OK	TASK	DEFICIENCY NOTED	DEFICIENCY CORRECTED
<input type="checkbox"/>	Check signal head doors, wing nuts, hinges, visors & louvers (if installed)	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
<input type="checkbox"/>	Inspect traffic signal housing for cracks or damage	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
<input type="checkbox"/>	Check alignment of vehicle & pedestrian heads for the approach they serve, reorient as required	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
N/A	Check for branches & foliage obstructing signal indications-Report to the Port Authority		
<input type="checkbox"/>	Check for cracked and/or missing screws	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
<input type="checkbox"/>	Check and clean lenses, visors and signs	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
N/A	Check bushings on cable outlet and universal hangers; replace as required		
<input type="checkbox"/>	Check terminal block connections and re-tighten as required	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
<input type="checkbox"/>	Check serrated rings in signal heads for damage and re-tighten as required	SEE NOTE 1 ON PAGE 4 UNDER "OTHER" HEADING	
<b>Pushbuttons</b>			
<input checked="" type="checkbox"/>	Check pushbutton and sign condition		
<input checked="" type="checkbox"/>	Check pushbutton for proper operation		
<input checked="" type="checkbox"/>	Check for damage to paint and touch up		
<b>Poles, Mast Arms &amp; Span Wires</b>			
<input checked="" type="checkbox"/>	Check poles, transformer bases and arms for wear and/or damage		
<input checked="" type="checkbox"/>	Adjust alignment & tighten mast arms to conform with approved drawing located in the cabinet		
<input checked="" type="checkbox"/>	Check and tighten bolts between transformer base and foundation and shoe base		
<input checked="" type="checkbox"/>	Check wire at outlets for chafing, ensure drip loop is properly installed; report issues to PANYNJ for action		
<input type="checkbox"/>	Check paint condition and/or corrosion and notify PANYNJ	MAST ARMS ARE PEELING	NO
<input checked="" type="checkbox"/>	Check for missing pole caps and mast arm end caps; replace as required		
<input type="checkbox"/>	Replace missing pole base access door		
<input checked="" type="checkbox"/>	Check foundations for damage or deterioration		
N/A	Check condition of strain vises, if applicable		
N/A	Visually inspect each upper and lower tether span wire for damage or deterioration		
N/A	Visually inspect each upper and lower tether span wire for excess sag; report issues to PANYNJ for action		

**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/0)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT      Date: May 5, 2014  
 Int. No: EWR-TA-304      Start Time: 8:00  
 Location: Terminal A HOV at Pedestrian Crossing 2      Finish Time: 12:30  
 Contractor: Jen Electric, Inc.      Signal Technician: JD; JR, FDD

OK	TASK	DEFICIENCY NOTED	DEFICIENCY CORRECTED
N/A	Inspect all connecting span wire hardware; report issues to PANYNJ for action		
N/A	Inspect guy anchors for proper attachment and/or damage		

**Detection**

N/A	Perform visual inspection of all loop detectors and roadway area		
N/A	Check operation of loop amplifiers & tune as required <sup>1</sup>		
N/A	Check all loop detectors to verify that vehicles are being detected. Test loops as required <sup>1</sup>		
N/A	Check amplifier connectors for tightness		
N/A	Check microwave detectors to verify that vehicles are detected in all zones, tune as required		
N/A	Clean video detection camera lenses		
N/A	Check video detectors to verify that vehicles are detected in all zones, tune as required		
N/A	Check camera mounting to verify that it is secure		

**Controller and Cabinet Equipment**

✓	Check and verify signal timing with the timing plan located in the cabinet and time, day & daylight savings settings		
✓	Check conflict monitor by actual conflicts with recording conflict monitor tester <sup>2</sup>		
✓	Check and verify communications to master controller and ID number of controller		
✓	Verify the time settings in the local to match the master		
✓	Verify vehicle and pedestrian calls		
✓	Check controller to verify it operates in the mode selected by the supervisory master		
✓	Disconnect from the master supervisory system and check for "free" or backup operation		
✓	Check load switches, flasher and relays for proper fit into socket		
✓	Wipe dust off controller, detectors, and auxiliary equipment		
✓	Check indicator lamps on controller, loop amplifiers and other electronics in cabinet		
✓	Check for electrical wiring plan, Traffic Signal sequencing plan and timing chart. Notify PANYNJ if missing		
N/A	Check and verify operation of UPS equipment. Restore operation as required		
N/A	Verify automatic transfer switch operation		

**Attachment A**  
**Traffic Signal Annual Preventive Maintenance Checklist (6/0)**

Facility: NEWARK LIBERTY INTERNATIONAL AIRPORT      Date: May 5, 2014  
 Int. No: EWR-TA-304      Start Time: 8:00  
 Location: Terminal A HOV at Pedestrian Crossing 2      Finish Time: 12:30  
 Contractor: Jen Electric, Inc.      Signal Technician: JD; JR, FDD

OK	TASK	DEFICIENCY NOTED	DEFICIENCY CORRECTED
N/A	Verify incoming line voltage		
N/A	Verify DC output to batteries		
N/A	Verify AC output on inverter		
N/A	Check electrical connections		
N/A	Test system via simulated power outage at cabinet		
✓	Note and record make, model, firmware version, and serial number for controllers, conflict monitors and other major components		

**Miscellaneous Tasks**

✓	Check splice box & pull box for proper grade		
✓	Check splice box & pull box ground rod, clean and tighten conduit clamp as required		
	Remove foreign material from junction boxes, pull boxes, & hand holes	JB'S FILLED WITH WATER; PUMPED OUT	YES
✓	Check the integrity of splices		

**OTHER**

1. ALL EXISTING VEHICULAR SIGNAL HEADS, VISORS, LED MODULES, HANGERS, AND HARDWARE WERE REPLACED ON APRIL 27, 2014 UNDER PROJECT WORK CATEGORY OF CONTRACT.

RECORDED MAKE, MODEL, AND SERIAL NUMBERS:

CONTROLLER: PEEK, 3000E FIRMWARE VERSION 5074 5.0, S/N 21324001CMU: EDI, SSM-12LEC, S/N 110508969

Signature:

Date:

1 - Malfunctioning loop amplifiers shall be temporarily replaced by an amplifier of known quality to isolate the problem. Replacement of amplifiers that are determined to be inoperable shall be performed only when directed by PANYNJ. Only loops that are determined to be inoperable shall be tested in accordance with the specifications when directed by the Manager.

2 - All conflict monitors shall be tested in accordance with the provisions in the specifications.

3 - In order to insure that all maintenance tasks have been performed and that all deficiencies have been identified and/or corrected, each line must be filled out and this page must be signed by the inspecting technician and the original copy shall be provided to Facility Electrical Maintenance Unit.

NEMA TS1 Conflict Monitor Certification Test Report

Agency : PANYNJ
Tested By : FDD
Location : TERMINAL A HOV PED X-ING2
Date / Time : 05 May 2014, 14:59



MONITOR INFORMATION

Manufacturer : EDI
Model : EDI SSM-12LEC
Serial Number : 110508969
Device ID : TA-304

TEST EQUIPMENT

Software Version 6.3
PCMT-2600 Firmware v7.6
Serial Number : 2600-1611

SYSTEM TIMING TESTS

Interlock : PASS
Output Relay : PASS
Power Interrupt Timing : PASS 491ms
Initial Flash Time : PASS 7 sec
Start Delay Time : PASS 2641ms
DC1 Monitor Timing : PASS
DC2 Monitor Timing : PASS
DC1 Monitor Auto Reset Timing : PASS 6591ms
DC2 Monitor Auto Reset Timing : PASS 6600ms
DC Monitor Inhibit : PASS
CVM Transfer Timing : PASS
CVM Auto Reset Timing : PASS 6191ms
Conflict Timing : PASS 250ms
Conflict Latching : PASS
Redfail Timing : PASS 783ms
Redfail Latching : PASS

VOLTAGE TESTS (12 CHANNELS)

RED Channels 70Vrms Sine Wave : PASS
RED Channels 50Vrms Sine Wave : PASS
GRN Channels 25Vrms Sine Wave : PASS
YEL Channels 25Vrms Sine Wave : PASS
WLK Channels 25Vrms Sine Wave : PASS
GRN Channels 25Vrms Positive Rectified : PASS
YEL Channels 25Vrms Positive Rectified : PASS
WLK Channels 25Vrms Positive Rectified : PASS
GRN Channels 25Vrms Negative Rectified : PASS
YEL Channels 25Vrms Negative Rectified : PASS
WLK Channels 25Vrms Negative Rectified : PASS
GRN Channels 15Vrms Sine Wave : PASS
YEL Channels 15Vrms Sine Wave : PASS
WLK Channels 15Vrms Sine Wave : PASS
GRN Channels 15Vrms Positive Rectified : PASS
YEL Channels 15Vrms Positive Rectified : PASS
WLK Channels 15Vrms Positive Rectified : PASS
GRN Channels 15Vrms Negative Rectified : PASS
YEL Channels 15Vrms Negative Rectified : PASS
WLK Channels 15Vrms Negative Rectified : PASS
GRN Channels 120Vrms Through 1500pF : PASS
YEL Channels 120Vrms Through 1500pF : PASS
WLK Channels 120Vrms Through 1500pF : PASS

OPTIONAL TESTS

GRN-GRN Permissives (Non-Programmed Card) : PASS
GRN-YEL Permissives (Non-Programmed Card) : PASS
GRN-WLK Permissives (Non-Programmed Card) : PASS
YEL-GRN Permissives (Non-Programmed Card) : PASS
YEL-YEL Permissives (Non-Programmed Card) : PASS
YEL-WLK Permissives (Non-Programmed Card) : PASS
WLK-GRN Permissives (Non-Programmed Card) : PASS
WLK-YEL Permissives (Non-Programmed Card) : PASS
WLK-WLK Permissives (Non-Programmed Card) : PASS
RED-WLK-GRN-YEL Single Channel : PASS
YEL Plus RED Interval : PASS
GRN-YEL Dual Display : PASS
RED-GRN Dual Display : PASS
YEL-RED Dual Display : PASS
Logic GND / Earth GND Isolation : PASS
Power and RED Channel Indicators : PASS
Power, Conflict, GRN Channel Indicators : PASS
Power, Conflict and YEL Channel Indicators : PASS
Dual Display Indicator : PASS

Redfail Indicator	: PASS
Short Yellow Indicator	: PASS
DC1 (24V1) Indicator	: PASS
DC2 (24V2) Indicator	: PASS
Manual Reset Button	: PASS

Test complete 05 May 2014, 15:28

*Passed All ATSI Certification Tests for NEMA TS1 Monitors.*

AC LINE-TA304

>> AC Line Event Log  
>> Monitor ID #304 TERM A PED-XING 2  
>> EDI Model SSM-12LEC, Firmware Type 01, Firmware V6.6, Comm V3.7  
>> RMS-Engine Firmware Type 00, RMS-Engine Firmware V0.0  
>> ECom Version 3.8.4  
>> Downloaded at 1:35:42 PM Monday, May 05, 2014  
>> Number of events = 40

---

AC EVENT #1 at:  
6:22:31 PM Saturday, July 20, 2013  
Restore AC  
AC Line Voltage = 114 Vrms

---

AC EVENT #2 at:  
6:22:29 PM Saturday, July 20, 2013  
Brownout AC  
AC Line Voltage = 81 Vrms

---

AC EVENT #3 at:  
8:55:49 AM Saturday, June 22, 2013  
Restore AC  
AC Line Voltage = 114 Vrms

---

AC EVENT #4 at:  
8:55:49 AM Saturday, June 22, 2013  
Brownout AC  
AC Line Voltage = 86 Vrms

---

AC EVENT #5 at:  
12:00:35 PM Friday, May 31, 2013  
Restore AC  
AC Line Voltage = 106 Vrms

---

AC EVENT #6 at:  
12:00:34 PM Friday, May 31, 2013  
Brownout AC  
AC Line Voltage = 59 Vrms

---

AC EVENT #7 at:  
9:01:10 AM Friday, May 17, 2013  
AC Power Up  
AC Line Voltage = 116 Vrms

---

AC EVENT #8 at:  
8:57:08 AM Friday, May 17, 2013  
Power Down  
AC Line Voltage = 0 Vrms

AC LINE-TA304

---

AC EVENT #9 at:  
8:46:00 AM Friday, May 17, 2013  
Restore AC  
AC Line Voltage = 114 Vrms

---

AC EVENT #10 at:  
8:45:56 AM Friday, May 17, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #11 at:  
8:45:12 AM Friday, May 17, 2013  
Restore AC  
AC Line Voltage = 114 Vrms

---

AC EVENT #12 at:  
8:45:07 AM Friday, May 17, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #13 at:  
8:43:59 AM Friday, May 17, 2013  
Restore AC  
AC Line Voltage = 114 Vrms

---

AC EVENT #14 at:  
8:43:56 AM Friday, May 17, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #15 at:  
8:43:51 AM Friday, May 17, 2013  
AC Power Up  
AC Line Voltage = 114 Vrms

---

AC EVENT #16 at:  
8:43:45 AM Friday, May 17, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #17 at:  
8:43:43 AM Friday, May 17, 2013  
Restore Interrupt AC  
AC Line Voltage = 115 Vrms

AC LINE-TA304

---

AC EVENT #18 at:  
8:43:43 AM Friday, May 17, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #19 at:  
8:43:02 AM Friday, May 17, 2013  
AC Power Up  
AC Line Voltage = 115 Vrms

---

AC EVENT #20 at:  
8:35:56 AM Friday, May 17, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #21 at:  
2:09:12 PM Friday, April 12, 2013  
Restore AC  
AC Line Voltage = 113 Vrms

---

AC EVENT #22 at:  
2:09:11 PM Friday, April 12, 2013  
Brownout AC  
AC Line Voltage = 88 Vrms

---

AC EVENT #23 at:  
4:18:14 PM Tuesday, October 30, 2012  
AC Power Up  
AC Line Voltage = 117 Vrms

---

AC EVENT #24 at:  
8:52:16 PM Monday, October 29, 2012  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #25 at:  
4:55:06 PM Wednesday, July 18, 2012  
Restore AC  
AC Line Voltage = 108 Vrms

---

AC EVENT #26 at:  
4:55:04 PM Wednesday, July 18, 2012  
Brownout AC  
AC Line Voltage = 82 Vrms

AC LINE-TA304

---

AC EVENT #27 at:  
8:16:04 AM Monday, June 25, 2012  
Restore AC  
AC Line Voltage = 113 Vrms

---

AC EVENT #28 at:  
8:16:04 AM Monday, June 25, 2012  
Brownout AC  
AC Line Voltage = 85 Vrms

---

AC EVENT #29 at:  
2:08:45 PM Friday, June 22, 2012  
Restore AC  
AC Line Voltage = 109 Vrms

---

AC EVENT #30 at:  
2:08:43 PM Friday, June 22, 2012  
Brownout AC  
AC Line Voltage = 85 Vrms

---

AC EVENT #31 at:  
4:22:46 PM Wednesday, May 30, 2012  
AC Power Up  
AC Line Voltage = 111 Vrms

---

AC EVENT #32 at:  
4:20:27 PM Wednesday, May 30, 2012  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #33 at:  
4:19:17 PM Wednesday, May 30, 2012  
AC Power Up  
AC Line Voltage = 113 Vrms

---

AC EVENT #34 at:  
4:15:24 PM Wednesday, May 30, 2012  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #35 at:  
3:44:50 PM Wednesday, May 30, 2012  
Restore AC  
AC Line Voltage = 111 Vrms

AC LINE-TA304

---

AC EVENT #36 at:  
3:44:46 PM Wednesday, May 30, 2012  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #37 at:  
3:44:07 PM Wednesday, May 30, 2012  
Restore AC  
AC Line Voltage = 112 Vrms

---

AC EVENT #38 at:  
3:44:02 PM Wednesday, May 30, 2012  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #39 at:  
3:42:55 PM Wednesday, May 30, 2012  
Restore AC  
AC Line Voltage = 112 Vrms

---

AC EVENT #40 at:  
3:42:52 PM Wednesday, May 30, 2012  
Power Down  
AC Line Voltage = 0 Vrms

---

CHRONO-TA304

>> Chronological Event Log  
>> Monitor ID #304 TERM A PED-XING 2  
>> EDI Model SSM-12LEC, Firmware Type 01, Firmware V6.6, Comm V3.7  
>> RMS-Engine Firmware Type 00, RMS-Engine Firmware V0.0  
>> ECom Version 3.8.4  
>> Downloaded at 1:35:45 PM Monday, May 05, 2014  
>> Number of Configuration Change Events = 10  
>> Number of Monitor Reset Events = 25  
>> Number of AC Line Events = 40  
>> Number of Previous Fail Events = 25

-----  
MONITOR NON-LATCHED FAULT RESET EVENT #1 at:  
6:22:37 PM Saturday, July 20, 2013  
-----

PREVIOUS FAIL EVENT #1 at:  
6:22:35 PM Saturday, July 20, 2013  
Fault = CVM Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	.	.	.	.	.	.	.	.	.	.	.	.
	.	Y	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	1	1	1	0	0	0	0	0	1	0	0	0
Y:	0	114	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 115 Vrms @ 60Hz  
Red Enable = Off (0 Vrms)  
Temperature = 104 F

-----  
AC EVENT #1 at:  
6:22:31 PM Saturday, July 20, 2013  
Restore AC  
AC Line Voltage = 114 Vrms  
-----

AC EVENT #2 at:  
6:22:29 PM Saturday, July 20, 2013  
Brownout AC  
AC Line Voltage = 81 Vrms  
-----

MONITOR NON-LATCHED FAULT RESET EVENT #2 at:  
8:55:56 AM Saturday, June 22, 2013  
-----

PREVIOUS FAIL EVENT #2 at:  
8:55:53 AM Saturday, June 22, 2013

Fault = CVM & 24V-1 & 24V-2 Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	.	.	.	.	.	.	.	.	.	.	.	.
	.	Y	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	1	0	0	0	0	0	0	0	1	0	1	1
Y:	0	114	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 116 Vrms @ 60Hz  
 Red Enable = Off (0 Vrms)  
 Temperature = 87 F

AC EVENT #3 at:

8:55:49 AM Saturday, June 22, 2013  
 Restore AC  
 AC Line Voltage = 114 Vrms

AC EVENT #4 at:

8:55:49 AM Saturday, June 22, 2013  
 Brownout AC  
 AC Line Voltage = 86 Vrms

MONITOR NON-LATCHED FAULT RESET EVENT #3 at:

12:00:41 PM Friday, May 31, 2013

PREVIOUS FAIL EVENT #3 at:

12:00:39 PM Friday, May 31, 2013  
 Fault = CVM Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	.	.	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	1	0	0	0	0	0	0	0	1	1	0	0
Y:	0	2	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 113 Vrms @ 60Hz  
 Red Enable = Off (0 Vrms)  
 Temperature = 110 F



CHRONO-TA304

: : : : : : : : : : : :

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	0	0	0	0	0	0	0	0	1	0	0	0
Y:	0	114	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 115 Vrms @ 60Hz  
 Red Enable = off (0 Vrms)  
 Temperature = 72 F

-----  
 AC EVENT #7 at:  
 9:01:10 AM Friday, May 17, 2013  
 AC Power Up  
 AC Line Voltage = 116 Vrms

-----  
 CONFIGURATION CHANGE #2 at:  
 8:57:08 AM Friday, May 17, 2013  
 Permissive Programming:  
 Ch 1 with: no channels  
 Ch 2 with: no channels  
 Ch 3 with: no channels  
 Ch 4 with: no channels  
 Ch 5 with: no channels  
 Ch 6 with: no channels  
 Ch 7 with: no channels  
 Ch 8 with: no channels  
 Ch 9 with: no channels  
 Ch 10 with: no channels  
 Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	X	X	X	X	X	X	X	X	X	X	X	X

GY Enable Switch = ON  
 LEDguard Enable Switch = OFF  
 Watchdog Enable Switch = OFF  
 Walk Disable Switch = OFF  
 CVM Latch Enable Switch = OFF  
 24V Latch Enable Switch = OFF  
 CVM Log Disable Switch = OFF  
 Minimum Flash Time = 4 seconds

\*> 24 Volt Inhibit = ON  
 Flashing Yellow Arrow Ch = None  
 Configuration Check Value = 55951

-----  
 AC EVENT #8 at:  
 8:57:08 AM Friday, May 17, 2013  
 Power Down  
 AC Line Voltage = 0 Vrms

CHRONO-TA304

MONITOR MANUAL RESET EVENT #5 at:  
8:56:51 AM Friday, May 17, 2013

---

PREVIOUS FAIL EVENT #5 at:  
8:56:46 AM Friday, May 17, 2013  
Fault = Conflict Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	*	*										
	R	R	R	R	R	R	R	R	R	R	R	R
	.	.	.	.	.	.	.	.	.	.	.	.
	G	G	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	117	117	117	117	117	117	116	117	117	117	117	117
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	115	115	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 116 Vrms @ 60Hz  
Red Enable = Off (0 Vrms)  
Temperature = 73 F

---

MONITOR EXTERNAL RESET EVENT #6 at:  
8:56:41 AM Friday, May 17, 2013

---

PREVIOUS FAIL EVENT #6 at:  
8:56:40 AM Friday, May 17, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
												*
	R	R	R	R	R	R	R	R	R	R	R	R
	.	.	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	G
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	120	120	120	120	120	120	120	120	120	120	120	120
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	0	0	0	0	0	120
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 115 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 75 F

---

MONITOR EXTERNAL RESET EVENT #7 at:  
8:56:39 AM Friday, May 17, 2013

CHRONO-TA304

-----  
PREVIOUS FAIL EVENT #7 at:  
8:56:37 AM Friday, May 17, 2013  
Fault = Dual Indication Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R R R R R R R R R R \* R  
: : : : : : : : : : G :  
: : : : : : : : : : : :

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 120 120 120 120 120 120 120 120 120 120 120 120  
Y: 0 0 0 0 0 0 0 0 0 0 0 0  
G: 0 0 0 0 0 0 0 0 0 0 120 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 115 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 70 F

-----  
MONITOR EXTERNAL RESET EVENT #8 at:  
8:56:36 AM Friday, May 17, 2013

-----  
PREVIOUS FAIL EVENT #8 at:  
8:56:35 AM Friday, May 17, 2013  
Fault = Dual Indication Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R R R R R R R R R R \* R R  
: : : : : : : : : : G : :  
: : : : : : : : : : : :

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 120 120 120 120 120 120 120 121 120 120 120 120  
Y: 0 0 0 0 0 0 0 0 0 0 0 0  
G: 0 0 0 0 0 0 0 0 0 0 120 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 115 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 73 F

-----  
MONITOR EXTERNAL RESET EVENT #9 at:  
8:56:34 AM Friday, May 17, 2013

PREVIOUS FAIL EVENT #9 at:  
8:56:33 AM Friday, May 17, 2013  
Fault = Dual Indication Fault

```

Channel Status:
Ch:  1  2  3  4  5  6  7  8  9  10  11  12
      R  R  R  R  R  R  R  R  R  R  R  R
      .  .  .  .  .  .  .  .  .  .  .  .
      .  .  .  .  .  .  .  .  G  .  .  .
      .  .  .  .  .  .  .  .  .  .  .  .

```

```

Channel RMS Voltages:
Ch:  1  2  3  4  5  6  7  8  9  10  11  12
R: 120 120 120 120 120 120 120 120 120 120 120 120
Y:  0  0  0  0  0  0  0  0  0  0  0  0
G:  0  0  0  0  0  0  0  0 119  0  0  0
W:  0  0  0  0  0  0  0  0  0  0  0  0

```

AC Line = 115 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 73 F

-----  
MONITOR EXTERNAL RESET EVENT #10 at:  
8:56:32 AM Friday, May 17, 2013  
-----

PREVIOUS FAIL EVENT #10 at:  
8:56:31 AM Friday, May 17, 2013  
Fault = Dual Indication Fault

```

Channel Status:
Ch:  1  2  3  4  5  6  7  8  9  10  11  12
      R  R  R  R  R  R  R  R  R  R  R  R
      .  .  .  .  .  .  .  .  .  .  .  .
      .  .  .  .  .  .  .  G  .  .  .  .
      .  .  .  .  .  .  .  .  .  .  .  .

```

```

Channel RMS Voltages:
Ch:  1  2  3  4  5  6  7  8  9  10  11  12
R: 120 120 120 120 121 120 120 120 120 120 120 120
Y:  0  0  0  0  0  0  0  0  0  0  0  0
G:  0  0  0  0  0  0  0  0 120  0  0  0
W:  0  0  0  0  0  0  0  0  0  0  0  0

```

AC Line = 116 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 69 F

-----  
MONITOR EXTERNAL RESET EVENT #11 at:  
8:56:30 AM Friday, May 17, 2013  
-----

PREVIOUS FAIL EVENT #11 at:  
8:56:29 AM Friday, May 17, 2013  
Fault = Dual Indication Fault

CHRONO-TA304

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R*	R	R	R	R	R
	.	.	.	.	.	.	G	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	120	120	120	120	120	120	120	120	120	120	120	120
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	0	119	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 115 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 64 F

---

MONITOR EXTERNAL RESET EVENT #12 at:  
8:56:28 AM Friday, May 17, 2013

---

PREVIOUS FAIL EVENT #12 at:  
8:56:27 AM Friday, May 17, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R*	R	R	R	R	R	R
	.	.	.	.	.	G	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	120	120	120	120	121	120	120	121	120	120	120	120
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	0	0	0	120	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 116 Vrms @ 60Hz  
Red Enable = Active (116 Vrms)  
Temperature = 73 F

---

MONITOR EXTERNAL RESET EVENT #13 at:  
8:56:26 AM Friday, May 17, 2013

---

PREVIOUS FAIL EVENT #13 at:  
8:56:25 AM Friday, May 17, 2013  
Fault = Dual Indication Fault

Channel Status:

ch:	1	2	3	4	5	6	7	8	9	10	11	12
-----	---	---	---	---	---	---	---	---	---	----	----	----

CHRONO-TA304

```

          *
    R   R   R   R   R   R   R   R   R   R   R   R
    .   .   .   .   .   .   .   .   .   .   .   .
    .   .   .   .   G   .   .   .   .   .   .   .
    .   .   .   .   .   .   .   .   .   .   .   .

```

Channel RMS Voltages:

```

Ch: 1  2  3  4  5  6  7  8  9  10  11  12
R: 120 120 120 121 121 120 120 121 120 120 120 120
Y: 0  0  0  0  0  0  0  0  0  0  0  0
G: 0  0  0  0  119 0  0  0  0  0  0  0
W: 0  0  0  0  0  0  0  0  0  0  0  0

```

AC Line = 115 Vrms @ 60Hz  
 Red Enable = Active (115 Vrms)  
 Temperature = 73 F

MONITOR EXTERNAL RESET EVENT #14 at:  
 8:56:24 AM Friday, May 17, 2013

PREVIOUS FAIL EVENT #14 at:  
 8:56:23 AM Friday, May 17, 2013  
 Fault = Dual Indication Fault

Channel Status:

```

Ch: 1  2  3  4  5  6  7  8  9  10  11  12
          *
    R   R   R   R   R   R   R   R   R   R   R   R
    .   .   .   .   .   .   .   .   .   .   .   .
    .   .   .   G   .   .   .   .   .   .   .   .
    .   .   .   .   .   .   .   .   .   .   .   .

```

Channel RMS Voltages:

```

Ch: 1  2  3  4  5  6  7  8  9  10  11  12
R: 120 120 120 120 121 120 120 120 120 120 120 120
Y: 0  0  0  0  0  0  0  0  0  0  0  0
G: 0  0  0  118 0  0  0  0  0  0  0  0
W: 0  0  0  0  0  0  0  0  0  0  0  0

```

AC Line = 115 Vrms @ 60Hz  
 Red Enable = Active (115 Vrms)  
 Temperature = 71 F

MONITOR EXTERNAL RESET EVENT #15 at:  
 8:56:22 AM Friday, May 17, 2013

PREVIOUS FAIL EVENT #15 at:  
 8:56:21 AM Friday, May 17, 2013  
 Fault = Dual Indication Fault

Channel Status:

```

Ch: 1  2  3  4  5  6  7  8  9  10  11  12
          *
    R   R   R   R   R   R   R   R   R   R   R   R
    .   .   .   .   .   .   .   .   .   .   .   .

```

: : G : : : : : : : : : : : :

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	120	120	120	120	120	120	120	120	120	120	120	120
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	0	120	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 115 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 73 F

-----  
MONITOR EXTERNAL RESET EVENT #16 at:  
8:56:20 AM Friday, May 17, 2013

-----  
PREVIOUS FAIL EVENT #16 at:  
8:56:19 AM Friday, May 17, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
		*										
	R	R	R	R	R	R	R	R	R	R	R	R
	.	G	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	120	120	120	121	121	120	120	121	120	120	120	120
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	0	119	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 115 Vrms @ 60Hz  
Red Enable = Active (116 Vrms)  
Temperature = 73 F

-----  
MONITOR EXTERNAL RESET EVENT #17 at:  
8:56:18 AM Friday, May 17, 2013

-----  
PREVIOUS FAIL EVENT #17 at:  
8:56:16 AM Friday, May 17, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	*											
	R	R	R	R	R	R	R	R	R	R	R	R
	.	.	.	.	.	.	.	.	.	.	.	.
	G	.	.	.	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

CHRONO-TA304

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	120	120	120	121	121	120	120	121	120	120	120	120
Y:	0	0	0	0	0	0	0	0	0	0	0	0
G:	119	0	0	0	0	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 114 Vrms @ 60Hz  
 Red Enable = Active (116 Vrms)  
 Temperature = 74 F

-----  
 MONITOR EXTERNAL RESET EVENT #18 at:  
 8:56:07 AM Friday, May 17, 2013  
 -----

PREVIOUS FAIL EVENT #18 at:  
 8:56:06 AM Friday, May 17, 2013  
 Fault = Dual Indication Fault

Channel Status:

ch:	1	2	3	4	5	6	7	8	9	10	11	12
												*
	R	R	R	R	R	R	R	R	R	R	R	.
	.	.	.	.	.	.	.	.	.	.	.	Y
	.	.	.	.	.	.	.	.	.	.	.	G
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	120	120	120	120	120	120	120	120	120	120	120	1
Y:	0	0	0	0	0	0	0	0	0	0	0	119
G:	0	0	0	0	0	0	0	0	0	0	0	120
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 115 Vrms @ 60Hz  
 Red Enable = Active (115 Vrms)  
 Temperature = 73 F

-----  
 MONITOR EXTERNAL RESET EVENT #19 at:  
 8:56:03 AM Friday, May 17, 2013  
 -----

PREVIOUS FAIL EVENT #19 at:  
 8:56:02 AM Friday, May 17, 2013  
 Fault = Dual Indication Fault

Channel Status:

ch:	1	2	3	4	5	6	7	8	9	10	11	12
											*	
	R	R	R	R	R	R	R	R	R	R	.	R
	.	.	.	.	.	.	.	.	.	.	Y	.
	.	.	.	.	.	.	.	.	.	.	G	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	120	120	120	120	120	120	120	120	120	120	0	120

CHRONO-TA304

Y: 0 0 0 0 0 0 0 0 0 0 119 0  
 G: 0 0 0 0 0 0 0 0 0 0 120 0  
 W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 115 Vrms @ 60Hz  
 Red Enable = Active (115 Vrms)  
 Temperature = 73 F

MONITOR EXTERNAL RESET EVENT #20 at:  
 8:55:59 AM Friday, May 17, 2013

PREVIOUS FAIL EVENT #20 at:  
 8:55:58 AM Friday, May 17, 2013  
 Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R	R	R	.	R	R
	.	.	.	.	.	.	.	.	.	Y	.	.
	.	.	.	.	.	.	.	.	.	G	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	120	120	120	120	120	120	120	120	120	0	120	120
Y:	0	0	0	0	0	0	0	0	0	119	0	0
G:	0	0	0	0	0	0	0	0	0	120	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 115 Vrms @ 60Hz  
 Red Enable = Active (116 Vrms)  
 Temperature = 73 F

MONITOR EXTERNAL RESET EVENT #21 at:  
 8:55:55 AM Friday, May 17, 2013

PREVIOUS FAIL EVENT #21 at:  
 8:55:54 AM Friday, May 17, 2013  
 Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R	R	.	R	R	R
	.	.	.	.	.	.	.	.	Y	.	.	.
	.	.	.	.	.	.	.	.	G	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	120	120	120	120	120	120	120	120	2	120	120	120
Y:	0	0	0	0	0	0	0	0	120	0	0	0
G:	0	0	0	0	0	0	0	0	119	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

CHRONO-TA304

AC Line = 115 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 72 F

-----  
MONITOR EXTERNAL RESET EVENT #22 at:  
8:55:51 AM Friday, May 17, 2013  
-----

PREVIOUS FAIL EVENT #22 at:  
8:55:50 AM Friday, May 17, 2013  
Fault = Dual Indication Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*  
R R R R R R R . R R R R  
. . . . . . . Y . . . .  
. . . . . . . G . . . .  
. . . . . . . . . . . .

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 120 120 120 120 120 120 120 0 120 120 120 120  
Y: 0 0 0 0 0 0 0 119 0 0 0 0  
G: 0 0 0 0 0 0 0 119 0 0 0 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 114 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 71 F

-----  
MONITOR EXTERNAL RESET EVENT #23 at:  
8:55:47 AM Friday, May 17, 2013  
-----

PREVIOUS FAIL EVENT #23 at:  
8:55:46 AM Friday, May 17, 2013  
Fault = Dual Indication Fault

Channel Status:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*  
R R R R R R R . R R R R R  
. . . . . . . Y . . . .  
. . . . . . . G . . . .  
. . . . . . . . . . . .

Channel RMS Voltages:  
Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
R: 120 120 120 120 120 120 0 120 120 120 120 120  
Y: 0 0 0 0 0 0 0 119 0 0 0 0  
G: 0 0 0 0 0 0 0 119 0 0 0 0  
W: 0 0 0 0 0 0 0 0 0 0 0 0

AC Line = 115 Vrms @ 60Hz  
Red Enable = Active (116 Vrms)

Temperature = 74 F

MONITOR EXTERNAL RESET EVENT #24 at:  
8:55:43 AM Friday, May 17, 2013

PREVIOUS FAIL EVENT #24 at:  
8:55:42 AM Friday, May 17, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	*	R	R	R	R	R	R
	.	.	.	.	.	Y	.	.	.	.	.	.
	.	.	.	.	.	G	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	120	120	120	120	120	0	120	120	120	120	120	120
Y:	0	0	0	0	0	119	0	0	0	0	0	0
G:	0	0	0	0	0	120	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 115 Vrms @ 60Hz  
Red Enable = Active (115 Vrms)  
Temperature = 71 F

MONITOR EXTERNAL RESET EVENT #25 at:  
8:55:39 AM Friday, May 17, 2013

PREVIOUS FAIL EVENT #25 at:  
8:55:38 AM Friday, May 17, 2013  
Fault = Dual Indication Fault

Channel Status:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	*	R	R	R	R	R	R	R
	.	.	.	.	Y	.	.	.	.	.	.	.
	.	.	.	.	G	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.	.	.

Channel RMS Voltages:

Ch:	1	2	3	4	5	6	7	8	9	10	11	12
R:	120	120	120	120	0	120	120	120	120	120	120	120
Y:	0	0	0	0	119	0	0	0	0	0	0	0
G:	0	0	0	0	119	0	0	0	0	0	0	0
W:	0	0	0	0	0	0	0	0	0	0	0	0

AC Line = 115 Vrms @ 60Hz  
Red Enable = Active (116 Vrms)  
Temperature = 73 F

AC EVENT #9 at:  
8:46:00 AM Friday, May 17, 2013  
Restore AC  
AC Line Voltage = 114 Vrms

---

AC EVENT #10 at:  
8:45:56 AM Friday, May 17, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #11 at:  
8:45:12 AM Friday, May 17, 2013  
Restore AC  
AC Line Voltage = 114 Vrms

---

AC EVENT #12 at:  
8:45:07 AM Friday, May 17, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #13 at:  
8:43:59 AM Friday, May 17, 2013  
Restore AC  
AC Line Voltage = 114 Vrms

---

AC EVENT #14 at:  
8:43:56 AM Friday, May 17, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #15 at:  
8:43:51 AM Friday, May 17, 2013  
AC Power Up  
AC Line Voltage = 114 Vrms

---

AC EVENT #16 at:  
8:43:45 AM Friday, May 17, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #17 at:  
8:43:43 AM Friday, May 17, 2013  
Restore Interrupt AC  
AC Line Voltage = 115 Vrms

---

AC EVENT #18 at:  
8:43:43 AM Friday, May 17, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

CONFIGURATION CHANGE #3 at:  
8:43:06 AM Friday, May 17, 2013  
Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):  
ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*> X X X X X X X X X X X X X  
  
\*> GY Enable Switch = ON  
\*> LEDguard Enable Switch = OFF  
Watchdog Enable Switch = OFF  
Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 4 seconds  
24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 7118

---

AC EVENT #19 at:  
8:43:02 AM Friday, May 17, 2013  
AC Power Up  
AC Line Voltage = 115 Vrms

---

AC EVENT #20 at:  
8:35:56 AM Friday, May 17, 2013  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #21 at:  
2:09:12 PM Friday, April 12, 2013  
Restore AC  
AC Line Voltage = 113 Vrms

---

AC EVENT #22 at:  
2:09:11 PM Friday, April 12, 2013  
Brownout AC  
AC Line Voltage = 88 Vrms

---

AC EVENT #23 at:  
4:18:14 PM Tuesday, October 30, 2012  
AC Power Up  
AC Line Voltage = 117 Vrms

---

AC EVENT #24 at:  
8:52:16 PM Monday, October 29, 2012  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #25 at:  
4:55:06 PM Wednesday, July 18, 2012  
Restore AC  
AC Line Voltage = 108 Vrms

---

AC EVENT #26 at:  
4:55:04 PM Wednesday, July 18, 2012  
Brownout AC  
AC Line Voltage = 82 Vrms

---

AC EVENT #27 at:  
8:16:04 AM Monday, June 25, 2012  
Restore AC  
AC Line Voltage = 113 Vrms

---

AC EVENT #28 at:  
8:16:04 AM Monday, June 25, 2012  
Brownout AC  
AC Line Voltage = 85 Vrms

---

AC EVENT #29 at:  
2:08:45 PM Friday, June 22, 2012  
Restore AC  
AC Line Voltage = 109 Vrms

---

AC EVENT #30 at:  
2:08:43 PM Friday, June 22, 2012  
Brownout AC  
AC Line Voltage = 85 Vrms

---

CONFIGURATION CHANGE #4 at:  
4:24:28 PM Wednesday, May 30, 2012

Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*> . X . . . . . . . . . . . . . . . .

GY Enable Switch = OFF  
LEDguard Enable Switch = ON  
Watchdog Enable Switch = OFF  
Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 4 seconds  
24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 65474

CONFIGURATION CHANGE #5 at:  
4:24:23 PM Wednesday, May 30, 2012

Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
. X . X . . . . . . . . . . . . . . . .

\*> GY Enable Switch = OFF  
LEDguard Enable Switch = ON  
Watchdog Enable Switch = OFF  
Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 4 seconds  
24 Volt Inhibit = OFF

Flashing Yellow Arrow Ch = None  
Configuration Check Value = 65324

-----  
CONFIGURATION CHANGE #6 at:  
4:22:50 PM Wednesday, May 30, 2012

Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*> . X . X . . . . . . . . . .

GY Enable Switch = ON  
LEDguard Enable Switch = ON  
\*> Watchdog Enable Switch = OFF  
Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 4 seconds  
\*> 24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 16133

-----  
AC EVENT #31 at:  
4:22:46 PM Wednesday, May 30, 2012  
AC Power Up  
AC Line Voltage = 111 Vrms

-----  
AC EVENT #32 at:  
4:20:27 PM Wednesday, May 30, 2012  
Power Down  
AC Line Voltage = 0 Vrms

-----  
CONFIGURATION CHANGE #7 at:  
4:20:26 PM Wednesday, May 30, 2012  
Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels

Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
X X X X X X X X X X X X

GY Enable Switch = ON  
LEDguard Enable Switch = ON  
Watchdog Enable Switch = ON  
Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 4 seconds  
\*> 24 Volt Inhibit = ON  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 55953

-----  
AC EVENT #33 at:  
4:19:17 PM Wednesday, May 30, 2012  
AC Power Up  
AC Line Voltage = 113 Vrms

-----  
AC EVENT #34 at:  
4:15:24 PM Wednesday, May 30, 2012  
Power Down  
AC Line Voltage = 0 Vrms

-----  
AC EVENT #35 at:  
3:44:50 PM Wednesday, May 30, 2012  
Restore AC  
AC Line Voltage = 111 Vrms

-----  
AC EVENT #36 at:  
3:44:46 PM Wednesday, May 30, 2012  
Power Down  
AC Line Voltage = 0 Vrms

-----  
AC EVENT #37 at:  
3:44:07 PM Wednesday, May 30, 2012  
Restore AC  
AC Line Voltage = 112 Vrms

-----  
AC EVENT #38 at:  
3:44:02 PM Wednesday, May 30, 2012  
Power Down  
AC Line Voltage = 0 Vrms

---

AC EVENT #39 at:  
3:42:55 PM Wednesday, May 30, 2012  
Restore AC  
AC Line Voltage = 112 Vrms

---

AC EVENT #40 at:  
3:42:52 PM Wednesday, May 30, 2012  
Power Down  
AC Line Voltage = 0 Vrms

---

CONFIGURATION CHANGE #8 at:  
3:29:41 PM Wednesday, May 30, 2012  
Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

signal sequence Monitor switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*> X X X X X X X X X X X X

GY Enable Switch = ON  
LEDguard Enable Switch = ON  
\*> Watchdog Enable Switch = ON  
\*> Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 4 seconds  
24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 7120

---

CONFIGURATION CHANGE #9 at:  
7:24:57 AM Tuesday, June 07, 2011  
Permissive Programming:  
ch 1 with: no channels  
ch 2 with: no channels  
ch 3 with: no channels  
ch 4 with: no channels  
ch 5 with: no channels  
ch 6 with: no channels  
ch 7 with: no channels  
ch 8 with: no channels  
ch 9 with: no channels

ch 10 with: no channels  
ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

```

ch:  1  2  3  4  5  6  7  8  9 10 11 12
*>   .  X  .  X  .  .  .  .  .  .  .  .
*>           GY Enable Switch = ON
*>           LEDguard Enable Switch = ON
*>           Watchdog Enable Switch = OFF
*>           Walk Disable Switch = ON
           CVM Latch Enable Switch = OFF
           24V Latch Enable Switch = OFF
           CVM Log Disable Switch = OFF
           Minimum Flash Time = 4 seconds
           24 Volt Inhibit = OFF
           Flashing Yellow Arrow Ch = None
           Configuration Check Value = 65281

```

---

CONFIGURATION CHANGE #10 at:  
9:24:17 AM Wednesday, May 18, 2011

```

Permissive Programming:
ch 1 with: no channels
ch 2 with: no channels
ch 3 with: no channels
ch 4 with: no channels
ch 5 with: no channels
ch 6 with: no channels
ch 7 with: no channels
ch 8 with: no channels
ch 9 with: no channels
ch 10 with: no channels
ch 11 with: no channels

```

Signal Sequence Monitor Switches (X=Enable):

```

ch:  1  2  3  4  5  6  7  8  9 10 11 12
     .  .  .  .  .  .  .  .  .  .  .  .
           GY Enable Switch = OFF
           LEDguard Enable Switch = OFF
           Watchdog Enable Switch = OFF
           Walk Disable Switch = OFF
           CVM Latch Enable Switch = OFF
           24V Latch Enable Switch = OFF
           CVM Log Disable Switch = OFF
           Minimum Flash Time = 4 seconds
           24 Volt Inhibit = OFF
           Flashing Yellow Arrow Ch = None
           Configuration Check Value = 40941

```

---

CMU RESET TA304

>> Monitor Reset Event Log  
>> Monitor ID #304 TERM A PED-XING 2  
>> EDI Model SSM-12LEC, Firmware Type 01, Firmware V6.6, Comm V3.7  
>> RMS-Engine Firmware Type 00, RMS-Engine Firmware V0.0  
>> ECom Version 3.8.4  
>> Downloaded at 1:35:41 PM Monday, May 05, 2014  
>> Number of events = 25

-----  
MONITOR NON-LATCHED FAULT RESET EVENT #1 at:  
6:22:37 PM Saturday, July 20, 2013

-----  
MONITOR NON-LATCHED FAULT RESET EVENT #2 at:  
8:55:56 AM Saturday, June 22, 2013

-----  
MONITOR NON-LATCHED FAULT RESET EVENT #3 at:  
12:00:41 PM Friday, May 31, 2013

-----  
MONITOR NON-LATCHED FAULT RESET EVENT #4 at:  
9:01:17 AM Friday, May 17, 2013

-----  
MONITOR MANUAL RESET EVENT #5 at:  
8:56:51 AM Friday, May 17, 2013

-----  
MONITOR EXTERNAL RESET EVENT #6 at:  
8:56:41 AM Friday, May 17, 2013

-----  
MONITOR EXTERNAL RESET EVENT #7 at:  
8:56:39 AM Friday, May 17, 2013

-----  
MONITOR EXTERNAL RESET EVENT #8 at:  
8:56:36 AM Friday, May 17, 2013

-----  
MONITOR EXTERNAL RESET EVENT #9 at:  
8:56:34 AM Friday, May 17, 2013

-----  
MONITOR EXTERNAL RESET EVENT #10 at:  
8:56:32 AM Friday, May 17, 2013

-----  
MONITOR EXTERNAL RESET EVENT #11 at:  
8:56:30 AM Friday, May 17, 2013

CMU RESET TA304

---

MONITOR EXTERNAL RESET EVENT #12 at:  
8:56:28 AM Friday, May 17, 2013

---

MONITOR EXTERNAL RESET EVENT #13 at:  
8:56:26 AM Friday, May 17, 2013

---

MONITOR EXTERNAL RESET EVENT #14 at:  
8:56:24 AM Friday, May 17, 2013

---

MONITOR EXTERNAL RESET EVENT #15 at:  
8:56:22 AM Friday, May 17, 2013

---

MONITOR EXTERNAL RESET EVENT #16 at:  
8:56:20 AM Friday, May 17, 2013

---

MONITOR EXTERNAL RESET EVENT #17 at:  
8:56:18 AM Friday, May 17, 2013

---

MONITOR EXTERNAL RESET EVENT #18 at:  
8:56:07 AM Friday, May 17, 2013

---

MONITOR EXTERNAL RESET EVENT #19 at:  
8:56:03 AM Friday, May 17, 2013

---

MONITOR EXTERNAL RESET EVENT #20 at:  
8:55:59 AM Friday, May 17, 2013

---

MONITOR EXTERNAL RESET EVENT #21 at:  
8:55:55 AM Friday, May 17, 2013

---

MONITOR EXTERNAL RESET EVENT #22 at:  
8:55:51 AM Friday, May 17, 2013

---

MONITOR EXTERNAL RESET EVENT #23 at:  
8:55:47 AM Friday, May 17, 2013

---

MONITOR EXTERNAL RESET EVENT #24 at:

8:55:43 AM Friday, May 17, 2013 CMU RESET TA304

---

MONITOR EXTERNAL RESET EVENT #25 at:  
8:55:39 AM Friday, May 17, 2013

---



CONFIG-TA304

X X X X X X X X X X X X X

GY Enable Switch = ON  
LEDguard Enable Switch = OFF  
Watchdog Enable Switch = OFF  
Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 4 seconds  
\*> 24 Volt Inhibit = ON  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 55951

---

CONFIGURATION CHANGE #3 at:  
8:43:06 AM Friday, May 17, 2013

Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*> X X X X X X X X X X X X

\*> GY Enable Switch = ON  
\*> LEDguard Enable Switch = OFF  
Watchdog Enable Switch = OFF  
Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 4 seconds  
24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 7118

---

CONFIGURATION CHANGE #4 at:  
4:24:28 PM Wednesday, May 30, 2012

Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels



CONFIG-TA304

Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*> . X . X . . . . . . . . . .

GY Enable Switch = ON  
LEDguard Enable Switch = ON  
\*> Watchdog Enable Switch = OFF  
Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 4 seconds  
\*> 24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 16133

-----  
CONFIGURATION CHANGE #7 at:  
4:20:26 PM Wednesday, May 30, 2012

Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
X X X X X X X X X X X X

GY Enable Switch = ON  
LEDguard Enable Switch = ON  
Watchdog Enable Switch = ON  
Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 4 seconds  
\*> 24 Volt Inhibit = ON  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 55953

-----  
CONFIGURATION CHANGE #8 at:  
3:29:41 PM Wednesday, May 30, 2012  
Permissive Programming:

CONFIG-TA304

Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*> X X X X X X X X X X X X

GY Enable Switch = ON  
LEDguard Enable Switch = ON  
\*> Watchdog Enable Switch = ON  
\*> Walk Disable Switch = OFF  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 4 seconds  
24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 7120

-----  
CONFIGURATION CHANGE #9 at:  
7:24:57 AM Tuesday, June 07, 2011

Permissive Programming:  
Ch 1 with: no channels  
Ch 2 with: no channels  
Ch 3 with: no channels  
Ch 4 with: no channels  
Ch 5 with: no channels  
Ch 6 with: no channels  
Ch 7 with: no channels  
Ch 8 with: no channels  
Ch 9 with: no channels  
Ch 10 with: no channels  
Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

Ch: 1 2 3 4 5 6 7 8 9 10 11 12  
\*> . X . X . . . . . . . .

\*> GY Enable Switch = ON  
\*> LEDguard Enable Switch = ON  
\*> Watchdog Enable Switch = OFF  
\*> Walk Disable Switch = ON  
CVM Latch Enable Switch = OFF  
24V Latch Enable Switch = OFF  
CVM Log Disable Switch = OFF  
Minimum Flash Time = 4 seconds  
24 Volt Inhibit = OFF  
Flashing Yellow Arrow Ch = None  
Configuration Check Value = 65281

CONFIGURATION CHANGE #10 at:  
9:24:17 AM Wednesday, May 18, 2011

Permissive Programming:

- Ch 1 with: no channels
- Ch 2 with: no channels
- Ch 3 with: no channels
- Ch 4 with: no channels
- Ch 5 with: no channels
- Ch 6 with: no channels
- Ch 7 with: no channels
- Ch 8 with: no channels
- Ch 9 with: no channels
- Ch 10 with: no channels
- Ch 11 with: no channels

Signal Sequence Monitor Switches (X=Enable):

ch: 1 2 3 4 5 6 7 8 9 10 11 12  
. . . . .

- GY Enable Switch = OFF
  - LEDguard Enable Switch = OFF
  - Watchdog Enable Switch = OFF
  - Walk Disable Switch = OFF
  - CVM Latch Enable Switch = OFF
  - 24V Latch Enable Switch = OFF
  - CVM Log Disable Switch = OFF
  - Minimum Flash Time = 4 seconds
  - 24 Volt Inhibit = OFF
  - Flashing Yellow Arrow Ch = None
  - Configuration Check Value = 40941
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