

# ***Hurricane Preparedness: 2013 Protective Measures***

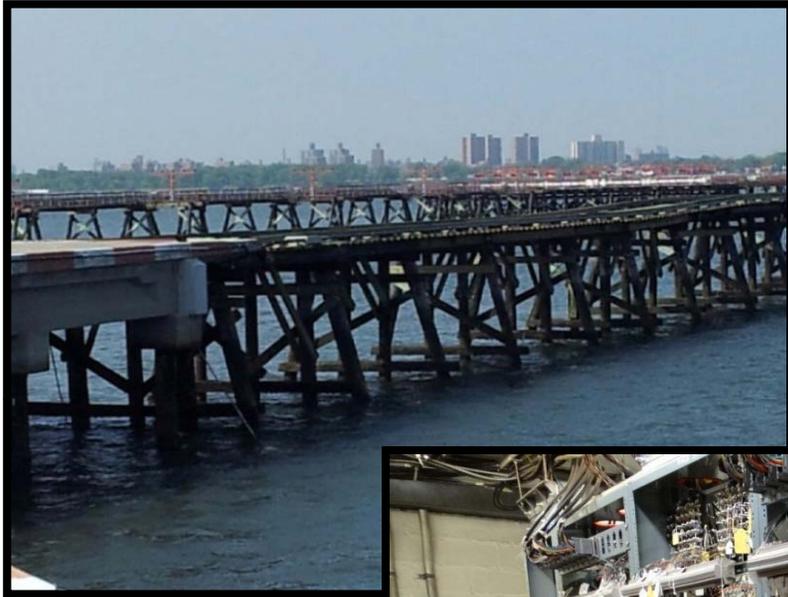
Public Session  
May 29, 2013

# *Impact of Superstorm Sandy*

---



# *Critical Immediate Repairs*



# *Lessons Learned*

---

- Coastal facilities vulnerable to increased storm surges
- Flooding of electrical infrastructure slowed recovery capabilities
- Regional network outages complicated recovery
- Spare parts and emergency materials quickly depleted
- Impacts to mass transit hampered recovery

# *Port Authority 2013 Protective Measures*

---

- Continue to quickly repair, rehabilitate and harden select infrastructure
- Ensure flood protection through installation of metal panels to protect doorways, concrete barriers and water filled barriers
- Ensure operational continuity by procurement of additional generators and mobile pumps

# Port Authority Storm Preparedness

In preparation for all major events:

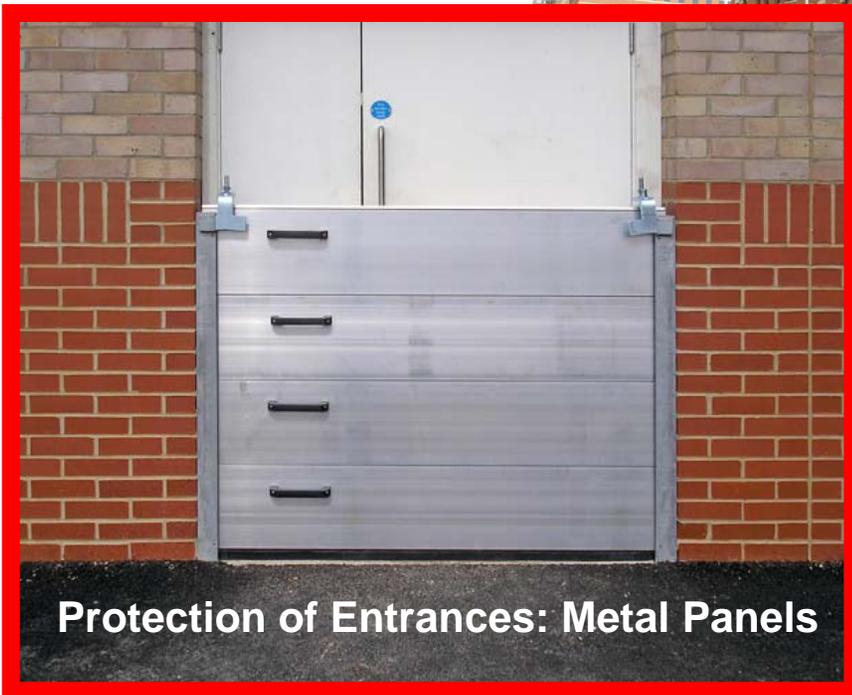
- All Port Authority facilities have emergency plans that address hurricanes and business continuity
- The agency conducts numerous tabletop and Full Scale Exercises
- In preparation for Super Storm Sandy, in particular, the agency pre-purchased supplemental resources including generators, sand bags, and flood barriers



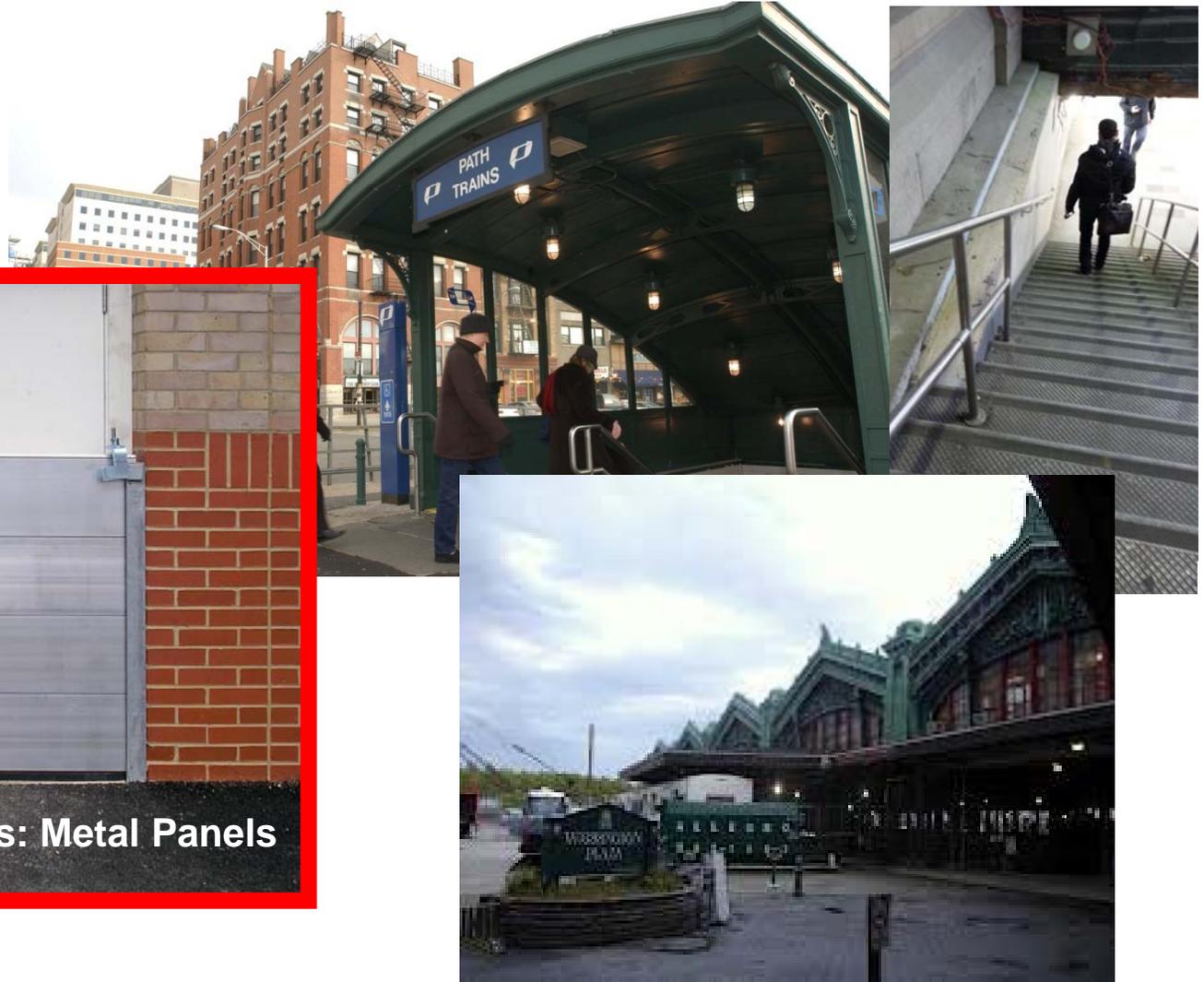
# Stockpile of Ready Materials and Equipment



# *PATH: Example of Flood Barriers at Certain Hoboken Station Entrances*



**Protection of Entrances: Metal Panels**



# ***NJ Marine Terminal: Example of Flood Protection***

---



**NJMT Fire Pump Building:  
Proposed Protection with  
Metal Panels and Drain Stops**



# *Holland Tunnel: New Pump Control Cabinets*

---



# *LaGuardia Airport : Generator for Pump House 4*

---



# World Trade Center Preparedness



**Augment existing sump systems**



**Pumps and pipe on-site**

