

Superstorm Sandy

Framing the Discussion of a Supply Chain Disruption and Transportation Outlooks







Framing the Discussion

- What worked and didn't work
- How organizations worked together
- Shorter and longer-term impacts

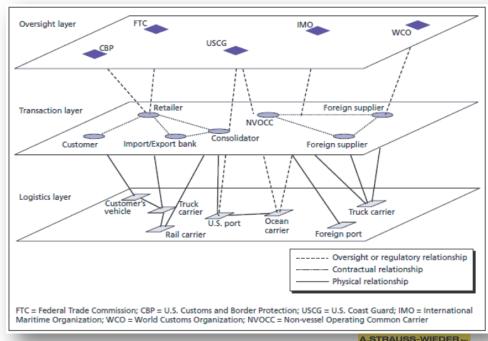






Supply Chain Disruption

- Geographic scope
- Facilities
- Modes
- Commodities/ shipment types
- Likely length





The Port of New York and New Jersey



Source: Port Authority of New York and New Jersey (PANYNJ)





Port Preparation

- October 25: Notification to tenants
- October 28: PA Emergency Operations Center activated
- October 29 1200 hours: All tenant personnel and PA contract security ordered off port
- October 29 2000 hours: Water levels rise to over 4 meters (13 – 14 feet), winds at 130-140 km/hour (80-90 mph)









Immediate Return to Operation Time Line

- Oct. 30 Assessment, response, recovery and restoration begins
- Nov. 2:
 - USCG re-opens Port to deep draft commercial traffic
 - First vessel arrival at PA facilities
- Nov. 3 Power restored at Elizabeth
- Nov. 4 Maher / APM work 5 vessels
- Nov. 5 –Truck gates at all container terminals opened Mon./Tues.
- Nov. 5 & 6 –All remaining container terminals work their first vessels







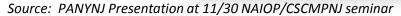
Port Damage and Vessels Diverted to Alternative Ports

- Extensive infrastructure damage
 - Flooding
 - Utilities
 - Sewage/fire pump motors and controllers
 - Loss of rail relays and switches
 - Security fencing and guard booths
 - Cranes and cargo handling equipment
 - Debris
 - Road and rail track damage
 - Total loss of rail car float and rail transfer bridge at Greenville

- Cargo impacts
- Cruise Passenger Auto Damages
- 57 vessels diverted to alternative East Coast ports











Greenville Yard – Before









Greenville – After Superstorm Sandy









Security Fencing and Gate Houses











Red Hook Barge at/on Berth 6







Chassis, Drayage Truck and Access Road Damage





Building Damage and Flooding









Cargo Impacts









Ongoing Steps

- Continue recovery and reconstruction efforts while maintaining supply chain
- Assess:
 - Lessons learned
 - Immediate changes in operations and capital investments
- Identify and make longer term capital investments and operational changes









Thank you!

Anne Strauss-Wieder

A. Strauss-Wieder, Inc.

asw@as-w.com

www.as-w.com



