

Security and Emergency Response Issues for the Refining and Petrochemical Industry

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AFPM



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ABOUT AFPM



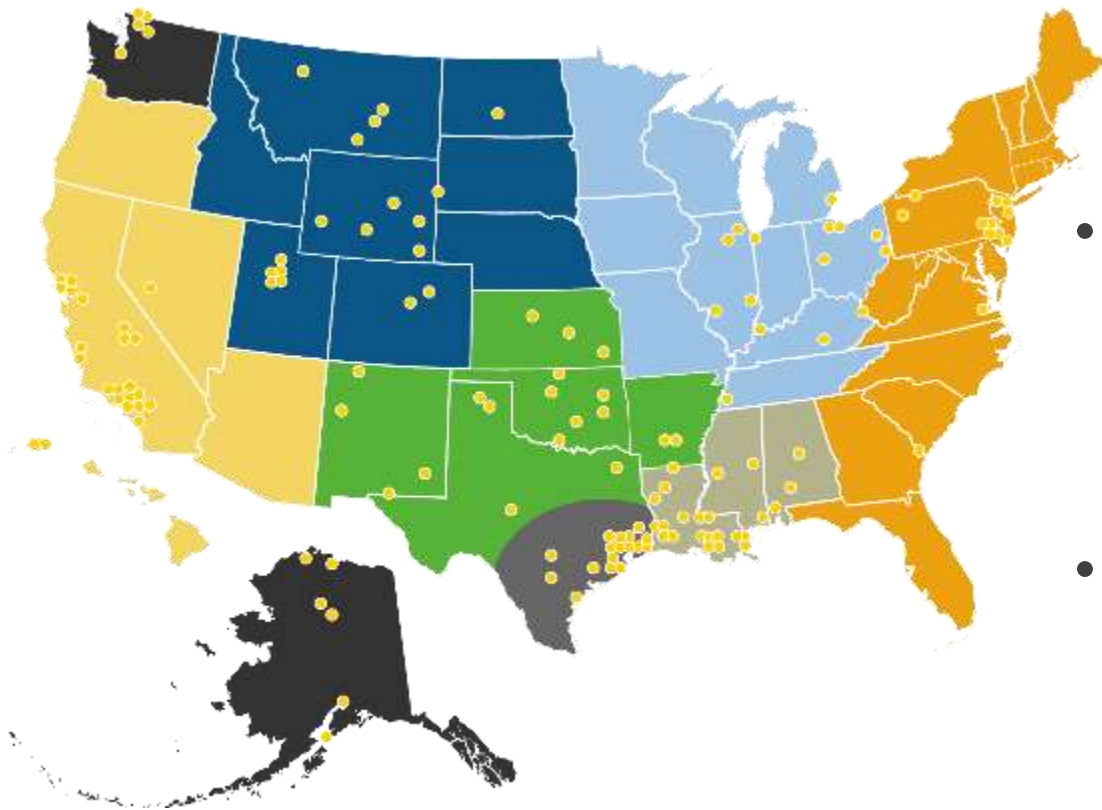
AFPM

American
Fuel & Petrochemical
Manufacturers

Who We Are

- Founded in 1902
- Represent over 95% of U.S. refining capacity and petrochemical manufacturing
- More than 400 member companies
 - Refineries
 - Petrochemical manufacturers
 - Service providers

Our Members



- U.S. petroleum refiners and petrochemical manufacturers (Regular Members)
- International refiners and petrochemical manufacturers (International Manufacturing Members)
- Industry-related businesses including construction, logistics, supply and contracting (Associate Members)

Security Issues:

- DHS Chemical Facility Anti-Terrorism Standards (CFATS)
- USCG Maritime Transportation Security Act (MTSA)
- Cyber Security
- Intel-Sharing/Info Sharing
- Disaster Recovery
- Drones

Emergency Response Issues

- Key Issues:
 - Power: electricity, fuel
 - Nitrogen for providing purge of system to clear pipelines
- Access:
 - Damage assessment for safety and to estimate return to normal (may take many days for correct estimate)
 - Access not just to analyze site but port/docks, rail and roads in/out of sites
 - Drone use should make this quicker
- Credentialing
 - Seems to be getting better

AFPM Engagement

- Security
- Annual Security Conference
- Active Security Committee
 - Chemical and Oil & Natural Gas Sector Councils
 - Members join port Area Maritime Security Councils (AMSCs)
 - Cyber Information Sharing and Analysis Centers (ISACs)
- DOE Exercises
 - ClearPath, Liberty Eclipse, and Cascadia Rising

Hurricane Preparedness at Refineries

- Many companies contract out with weather services to get up to date pin point forecasts
- Companies generally follow a timeline process
- Generally—tie down, raise up equipment, ride out crew left at site
- Biggest issue is employee safety after storm goes thru
- If really bad and enough time refineries may close down (shutter)—not complete shut down—can have a cascading affect on supply

Hurricane Preparedness at Refineries

- Companies have Gulf Coast Prep teams with members from TX and LA operations
- Members hold planning meetings in June to address issues like fuel, water, food, backup generators, etc
- Contract with relief assistance companies to provide food and shelter to rebuild sites, help employee families

Hurricanes and AFPM

- AFPM maintains an evergreen list of company hurricane contacts for each member—from high level VPs to emergency managers that we update every year and have for years
- Act as middleman between agencies and companies as needed
- Helpful hurricane references on our website
- Developed hurricane preparedness paper in 2006 and guide in 2013
- Need greater coordination with states

AFPM Cybersecurity Subcommittee

- Established 2005
- A Subcommittee of the AFPM Plant Automation & Decision Support Committee
- 44 AFPM members
 - One of AFPM's largest committees
 - Both Operating Companies and Vendor Companies Represented
- Cybersecurity presentations given at various AFPM conferences
- ≈50% of the Subcommittee have Security Clearances

Activities of AFPM Cybersecurity Subcommittee Members

- Infragard (San Antonio, Houston, Phoenix, Washington DC, Denver, Bay Area)
- DOE ONG SCC
- ISA SP-99 Committee
- ICSJWG
- ISA Security Compliance Institute
- DOE Cyber Security for Energy Delivery Systems (CEDS) formerly known as the National SCADA Test Bed (NSTB)

AFPM and Federal Government

- AFPM Staff represent its membership in many public-private forums
 - ONG SCC
 - Chem SCC
 - ICJSWG
 - NIST Framework
 - Liberty Eclipse
 - Development of *DOE Energy Sector Cybersecurity Framework Implementation Guidance*
 - USCG Gulf of Mexico Area Maritime Security Committee



AFPM

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