

## New Regulations

Since the Valero Benicia Refinery submitted its Crude by Rail project to the City of Benicia for review in December 2012, additional rail safety regulations have been implemented at the federal and state levels, including:

- Additional funding for rail safety inspectors to annually inspect every rail track in the state
- A 6.5 cent per barrel fee for crude brought into California by rail to fund the expansion of California's Office of Spill Prevention and Response (OSPR) for prevention, emergency response preparedness, and cleanup enforcement measures
- Voluntary adoption of rail safety initiatives including reduced speeds, increased track inspections, better braking systems, and additional emergency response training, among others
- On May 1, 2015 the Department of Transportation mandated a final set of rules for the transportation of crude oil requiring:
  - CPC-1232 rail cars to become the new standard within approximately 5 years
  - Upgraded braking systems by January 1, 2021
  - New operational protocols including routing requirements, speed restrictions and information for local governments
  - New sampling and testing requirements to improve classification
- On July 29, 2015 the Federal Railroad Administration announced a rule requiring a second trained engineer to implement additional securement procedures.

These regulations are complemented by the extensive prevention, preparedness and response measures already in place.

## Prevention

Accident prevention is the top priority for Valero and its partners in this project. The Valero Benicia Refinery has been recognized as one of the safest refineries in the nation and has earned Cal/OSHA's Voluntary Protection Program STAR Site certification continuously since 2006 for voluntarily implementing a variety of safety programs that go beyond Cal/OSHA standards.

**Regulation:** Refinery and railroad operations are highly regulated by more than a dozen federal, state and local regulatory bodies that mandate programs to prevent accidents and protect workplace and public safety. These agencies include:

- US Department of Transportation, the Federal Railroad Administration and the Pipeline and Hazardous Materials Safety Administration
- Federal Emergency Planning and Community Right-to-Know Act
- Federal Resources Conservation and Recovery Act
- Federal Oil Pollution Prevention regulations
- US Environmental Protection Agency Risk Management Plan
- National Fire Protection Association
- National Transportation Safety Board
- California Office of Spill Prevention and Response
- California Emergency Management Agency, including the Office of Emergency Services, Environmental Protection Agency, California Highway Patrol, Department of Fish & Wildlife, Regional Water Control agencies and local fire departments
- California Hazardous Materials Business Plan program
- California Accidental Release Programs
- California Occupational Safety and Health Administration
- Department of Toxic Substances Control
- Solano County Department of Resource Management, Environmental Health Services Division Enforcement

## Prevention Continued

**Local:** The refinery has an onsite fire department 24/7 that trains regularly with the City of Benicia's Fire Department. The refinery also has partnerships with agencies that require additional prevention training and drills, including:

- Worker and process safety programs with Cal/OSHA
- Accident prevention drills as a member of the Petrochemical Mutual Aid Organization (PMAO)

**State:** State agencies have a number of prevention measures in place, including:

- Statewide track inspections under the California Public Utilities Commission
- Statewide prevention drills and exercises under the Office of Spill Prevention and Response
- Public safety and preparedness coordination with the Office of Emergency Services

Valero and Union Pacific Railroad have committed to a number of additional safety measures, including:

- Immediate and exclusive use of 1232 tank cars, which feature thicker tank shell and heads, higher tensile strength, protective shields at both ends, consolidated top fittings and reclosing pressure relief devices
- Mandating that all trains from Roseville to Benicia be attended at all times



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## PREPAREDNESS

The refinery has a full-time, on-site emergency response team that is highly trained, state-certified and capable of responding to any hazardous material incident, including one involving railcars. The refinery regularly conducts drills and exercises with local, state and federal agencies using the Unified Command Structure to ensure refinery personnel and other agencies are prepared to respond to an emergency. Some of these agencies include:

- City of Benicia Fire Department
- Uprail fire departments and first responders
- Petrochemical Mutual Aid Organization
- Solano County Resources Management
- CA Office of Emergency Services
- CA Office of Spill Prevention and Response
- CA Department of Fish and Wildlife
- CA Environmental Protection Agency
- Federal Environmental Protection Agency

Union Pacific has also adopted voluntary preparedness measures including ongoing training specific to railroad operations for local and uprail first responders and annual refresher training for all employees to ensure rapid response capabilities.

## RESPONSE

Valero has emergency procedures in place that utilize the refinery's response team and specialized equipment to address any incident. The refinery also has protocols in place to alert the city, neighboring businesses and the community to an incident and coordinate with city response teams as needed. Some of the protocols governing incident response include:

- On-site Process Team, Spill Response Team and Refinery Spill Management Team based on the National Interagency Incident Management System Incident Command System
- Coordination with state and federal Incident Commanders using the Unified Command approach
- Three emergency response contractors in Northern California through Union Pacific Railroad, including one in the Benicia area
- Access to additional containment and other specialized materials and personnel through partnerships with the PMAO and oil spill containment and response firms in the area