



Hazardous Liquid Pipeline Safety Oversight



Trends in Sources of Crude Oil Workshop
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Bob Gorham
Division Chief

CAL FIRE

Office of the State Fire Marshal
Pipeline Safety Division



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IEPR Workshop — Trends in Sources of Crude Oil



Regulatory Oversight Responsibility

FEDERAL

The USDOT – Pipeline and Hazardous Materials Administration (PHMSA) has the primary authority for developing, issuing, and enforcing pipeline safety regulations for hazardous liquid and natural gas safety in the country.

- PHMSA currently regulates 1193 miles of hazardous liquid **interstate** pipelines in California.
- These are primarily refined product pipelines serving Nevada and Arizona from refineries in Southern and Northern California. Also, crude oil pipelines coming into the state from federal drilling platforms.

STATE

CAL FIRE - Office of the State Fire Marshal (OSFM) has assumed regulatory, inspection, and enforcement responsibilities on **intrastate** pipelines since 1984 through annual certification with PHMSA.

- OSFM currently regulates 4529 miles of hazardous liquid **intrastate** pipelines.





California Hazardous Liquid Pipeline Infrastructure



Total mileage (intrastate + interstate):

- 2934 miles of crude oil pipelines
- 2763 miles of refined product pipelines

Consisting of:

- 842 Individual Pipelines
- 52 Operators
- 779 Break Out Tanks

Commodities:

- Crude
- Gasoline, diesel, jet fuel
- Ethanol
- CO2 (None)
- Anhydrous ammonia (None)
- Butane, Propane, HVL's

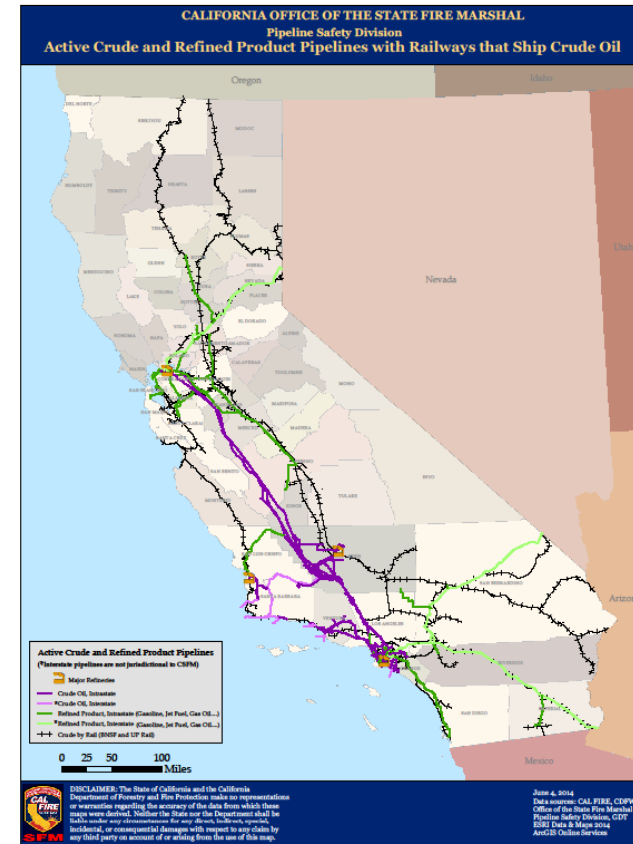




Crude Oil by Rail and Pipeline



- New and existing pipelines are being designed and constructed to handle the increased demand from crude oil unloading facilities.
- Hazardous liquid pipelines are constructed of high strength steel and are designed to transport all types of petroleum products of various flammability, gravity and composition.
- Existing federal regulations require the pipeline operator to continuously monitor and investigate any potential corrosive effects of the hazardous liquid and to take mitigative actions to prevent internal corrosion.
- The Bakken and West Texas crude oil can be safely transported in existing California pipelines.





OSFM –Pipeline Safety Division Organization



Staffing

- Division Chief
- 2 Supervising Engineers
- 10 Pipeline Inspectors
- 2 GIS Mapping Analysts
- 3 Clerical

Office Locations

- Sacramento
- Lakewood
- Bakersfield





Types of Inspections



- Operator Qualification
- Public Awareness
- Construction & Design
- Accident Investigations
- Operation & Maintenance
- Emergency Response Procedures
- Drug & Alcohol
- Integrity Management
- Control Room Management
- Corrosion Control





Some Notable Program Highlights



OSFM Emergency Response Capability

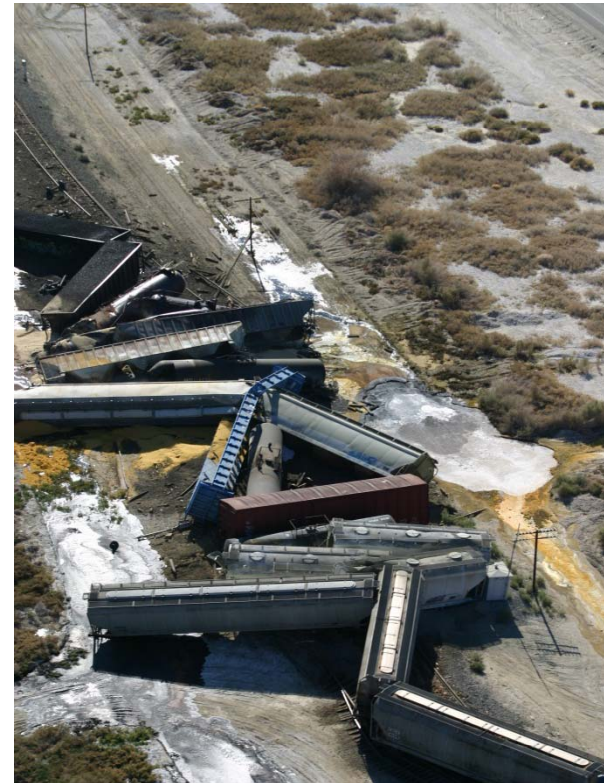
- California Office of Emergency Services CAL-OES is notified of all pipeline spills (including train derailments)
- CAL-OES contacts OSFM pipeline supervisor –24 hr On Call
- Each notification is reviewed and a determination is made on the type of response required.
- If warranted a pipeline safety engineer will respond to the incident.

Integrity testing

- Most extensive testing requirements in the country.
- All intrastate pipelines are pressure- tested or inspected by internal inspection device (SMART PIG) at a minimum every 5 years.
- Each pressure test is witnessed by an OSFM approved testing firm
- Results are submitted and reviewed by OSFM staff.

Emergency Responder Training

- All civil penalty funds go toward to providing emergency response personnel training on responding to hazardous liquid pipeline spills





Authority



STATE and LOCAL Government Pre-emption

- OSFM has exclusive safety regulatory and enforcement authority over intrastate hazardous liquid pipelines. (Section 51010 California Government Code).
- We focus solely on the safe design, construction, operation and maintenance of the pipeline to protect public safety and the environment



No Authority

- OSFM has no authority to approve projects, issue permits or prescribe location or routing of pipeline facilities.
- OSFM doesn't track throughputs or volumes pumped through pipelines.
- OSFM doesn't direct cleanup of the environment after a spill.





Areas of coordination with other agencies



Established Agreements to delineate lines of jurisdiction

- Memorandum of Agreement with Division of Oil, Gas and Geothermal Resources (Production Facilities)
- Memorandum of Understanding with State Lands Commission (Marine Terminals)

Investigation, Inspection and Assistance

- Participate in team inspections and training with PHMSA personnel
- Investigation cooperation with Department of Fish & Wildlife
- Provide technical and informational assistance to state, county and local government





Questions?



Contact information:

Bob Gorham

Division Chief

CAL FIRE - OSFM

Email: bob.gorham@fire.ca.gov

Office phone: 562-497-9100

<http://osfm.fire.ca.gov/>

