The safe, reliable, and environmentally sound operation of the pipeline transportation system.
San Bruno
Minneapolis, MN
3-17-11

- 75 psi main break
- 2 Schools and a Church evacuated
Office of Pipeline Safety
- Primary Federal regulatory agency
- Develop and implement pipeline safety regulations
- Share regulatory responsibility with States
PHMSA Regulated Pipelines
- 175,000 miles of onshore and offshore hazardous liquid pipelines
- 321,000 miles of onshore and offshore gas transmission and gathering pipeline
- 2.3 miles of natural gas distribution mains and service pipelines
- 114 active LNG plants
PHMSA

- Public safety
- Oversee design, materials, construction, operations and maintenance of pipelines
Other Regulatory Agencies

- FERC
  - Public necessity, capacity and rates

- OSHA
  - Worker safety

- BLM (Bureau of Land Management)
  - Public lands

- Corps of Engineers and Coast Guard
  - Waterways
Historical Overview

- Boiler codes in the late 1800’s
- First ASME pipeline standard/code in 1925 due to pipeline accidents
- Some States passed pipeline safety laws after gas pipeline incidents
Historical Overview

- ASME B31/B31.1/B31.4/B31.8 codes were only US pipeline standards until 1968
- 1968 – Natural Gas Pipeline Safety Act
  - Basis of current codes
  - Amended to correct, modify and add requirements
PIPEDLINE CODES

49 CFR 190 – Pipeline Safety Program Procedures
49 CFR 191 – Transportation of Natural and Other Gas by Pipeline; Reports of Leaks
49 CFR 192 – Transportation of Natural and Other Gas by Pipeline; Minimum Federal Safety Standards
49 CFR 195 – Transportation of Hazardous Liquids by Pipeline
49 CFR 199 – Drug and Alcohol Testing Regulations and Procedures
PHMSA interpretations, alert bulletins, special permits and enforcement documents
- Memorandum of Understanding
  - OSHA, FERC, USCG, EPA
- Association standards
  - NACE, ASTM, API, ASME, NFPA
PHMSA Regulations

- Non-retroactive
  - Only apply from code enactment forward
- Cannot apply to pre-existing pipelines
- Govern design, materials, construction and testing requirements
Retroactive
- All existing pipelines, regardless of the date of construction
- Govern operations and maintenance of pipeline facilities
- Includes operator qualification, integrity management and control room management
Common PHMSA/OSHA Activities

- Trenching and shoring
- Hazardous atmospheres
- Hot work permits
- Fire extinguishers
- Lifting/slings
- Electrical safety
Common
PHMSA/OSHA
Activities

- Pigging operations
- Slip, trip and fall hazards
- Hazardous materials, including asbestos
- Confined spaces
- Lock out/tag out
- PPE