UTC PIPELINE SAFETY INSPECTION PROGRAM
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- Statutory Requirements
- Who we Inspect
- The inspectors
- Types of Inspections
- Inspection Frequency
- The inspection Process
Chapter 81.88.060 RCW & 81.88.065 RCW
“The commission shall develop and administer a comprehensive program of pipeline safety in accordance with this chapter.”
Chapter 81.88.090 RCW
“The commission shall maintain federal certification for the state’s pipeline safety program. The commission, at a minimum shall do the following:
(1) Inspect hazardous liquid pipelines and gas pipelines periodically as specified in the inspection program;”
Chapter 81.88.100 RCW
“The commission may inspect any record, map or written procedure required by federal law to be kept by a pipeline company concerning releases, and design, construction, testing or operation and maintenance of pipelines.”
PIPELINE COMPANIES

- Liquid/gas
- Interstate/intrastate
- Headquarters/units
- Master Meters
PIPE LINE COMPANIES

- **Companies**
  - 12 Liquid
  - 25 Gas

- **Units**
  - 17 Liquid
  - 57 Gas
Hazardous Liquid

“Petroleum, petroleum products or anhydrous Ammonia”
Liquid Operator Exemptions:
1. Lines regulated by Coast Guard
2. Lines fed by gravity
3. Lines 1> mile long
Breakout Tank
A storage tank that:
1. Relieves surge from a pipeline, or
2. Re-injects product back into a pipeline
Gas

“Natural gas, flammable gas or gas which is toxic or corrosive.”
INTERSTATE COMPANIES

- Puget Sound Energy
- KB Pipeline
- Gas Transmission Northwest Corp (GTN)
- Northwest Pipeline Corp (WGP)
- Olympic Pipe Line Company
- Chevron Pipeline Company
- ConocoPhillips
- Exxon Mobil Oil Corporation
- Trans Mountain Pipeline (Puget Sound) LLC
Avista
Cascade Natural Gas
Northwest Natural
Puget Sound Energy
City of Buckley
City of Ellensburg
City of Enumclaw
Solvay Chemical
Akzo Nobel
Air Liquide
BP Pipeline
Cardinal Glass
Georgia Pacific

Weyerhaeuser
Inland Empire
Lamb Weston/BSW
McChord Pipeline
Tidewater Terminal
Nustar
JR Simplot
Chevron Pipe line
Swissport
Sound Refining
LIQUID OPERATORS

- Olympic Pipe Line
- Chevron Pipe line
- ConocoPhillips
- Exxon Mobil Oil Corporation
- Trans Mountain Pipeline (Puget Sound) LLC
- McChord Pipeline Company
- Tidewater Terminal
- Nustar Pipeline Operating Partnership, L.P.
- Swissport
- Sound Refining
GAS OPERATORS

- Avista
- Cascade
- NW Natural
- Puget Sound Energy
- City of Buckley
- City of Ellensburg
- City of Enumclaw
- Solvay Chemical
- Akzo Nobel
- Air Liquide
- JR Simplot
- KB Pipeline
- Gas Transmission NW Corp (GTN)
- Northwest Pipeline Corp (WGP)
- Arco Western
- Cardinal FG
- Inland Empire
- Lamb Weston/BSW
- Weyerhaeuser
- Georgia Pacific
LNG OPERATORS

- Northwest Pipeline Corp (WGP)
- Puget Sound Energy
Intrastate Inspection Units

- **Avista**
  - Goldendale/Stevenson
  - Pullman/Clarkston
  - Spokane/Ritzville
  - Colville

- **Cascade**
  - Whatcom
  - Skagit/Island
  - Kitsap
  - Cowlitz
  - Tri Cities/Walla Walla
  - Wenatchee/Moses Lake
  - Yakima/Sunnyside
  - Mason/Grays Harbor

- **NW Natural**
  - Clark
  - Columbia Gorge

- **PSE**
  - King East
  - King West
  - Pierce
  - Snohomish
  - Thurston/Lewis
  - Kittitas
  - Propane Peak Shaving
  - LP Gas Distribution
INTERSTATE INSPECTION UNITS

- Northwest Pipeline Corp (WGP)
  - Sumas
  - Redmond
  - Battleground
  - Pasco
  - Spokane

- Gas Transmission Northwest Corp (GTN)
  - Rosalia
  - Wallula

- PSE
  - Sumas Gas Pipeline
  - Jackson Prairie

- Olympic Pipe Line
  - North
  - South
  - Intra Laterals

- Chevron Pipe Line
  - Pipeline
  - Tanks
MASTER METERS

- List of 700
- 7 confirmed
8 inspectors
Background
Training
T&Q Training

- Gas regulation
- Liquid regulation
- LNG regulation
- Overpressure protection
- Corrosion
- Accident Investigation
- Welding
- Joining
- SCADA
- In-line inspection
- Control Room Management
- Root Cause Analysis
- Direct Assessment
- Liquid Integrity Management
- Gas Integrity Management
- Operator Qualifications
- Compliance and Enforcement
- Reliability Assessment
- 24 hour safety Awareness
TYPES OF INSPECTIONS

- Team/Individual
- Standard
- Follow-up
- O&M
- Integrity Management
  - Gas transmission
  - Distribution
  - Liquid
  - State
- Operator Qualifications
- Public Awareness
- Control Room Management
- Drug and Alcohol
- Crew/Construction
- Incident Investigations
- Complaints
- Master meters
- Integrated Inspection
CONSTRUCTION INSPECTIONS
PIPE LINE REPAIRS
INSPECTION FREQUENCY

- Interstate
- Intrastate
  - Risk based
  - 3 year max for standard
  - 5 year max for Integrity management/OQ/O&M/Public Awareness/Control Room management
  - 7 year for drug and Alcohol
WHAT WE DO DURING A STANDARD INSPECTION

- Pre-inspection Work
  - Past records
  - Pre-field
  - O&M review
- Records review
- Field Work
  - Observation
  - Testing
  - OQ review
RECORDS REVIEW

- Reporting
- Construction
- Pressure Testing
- MAOP (MOP)
- Operating Pressure
- Damage Prevention
- Corrosion Control
- Pipe Repair
- Drug and Alcohol
- Integrity Management
- Operator Qualifications
- Patrolling
- Public Awareness
- Maps
- Leak Surveys (Gas)
- Abnormal Operations
- Emergency Procedures
- Emergency response training
- Periodic review
- Customer notifications (gas)
- Odorant (Gas)
- Pressure control
- Valves
- Breakout Tanks (Liquid)
- Over fill alarms (Liquid)
- Leak detection (Liquid)
- Fire equipment (Liquid)
- Depth cover (liquid)
Odorization (gas)
Corrosion Control
Valve Operation
Pipe Supports
Land Movement
Markers
Signs
Right-of-Way
Pressure Control
Operating pressure
Leak Surveys (gas)
Compressor stations (gas)
Pump Stations (liquid)
Breakout tanks (liquid)
Leak Detection (liquid)
Fire Fighting (liquid)
Alarm Logs
Security
Station Sensors
Supports
COMPLIANCE AND ENFORCEMENT

- Interstate
- Intrastate
  - Letters
  - Orders