DIMP Discussion

Kansas Applications

Requirements of Subpart P

- **Knowledge**
- **Identify Threats**
- **Evaluate for Risk**
- **Rank Risk**
- **Identify and Implement Measures to Address Risk.**
- **Measure Performance**
  - **Monitor results**
  - **Evaluate effectiveness**

Kansas Most Common Threats

- **Corrosion**
- **Excavation Damage**
- **Outside Force (vehicle damage)**

Identify and implement measures to address risks

- **Determine and implement measures designed to *reduce the risks* from failure of its gas distribution pipeline.**

- **These measures must include an effective leak management program**

Implement Measures

- **Take measures beyond Part 192 requirements as necessary to reduce risk.**

Implement Measures

- **Kansas regulations may provide examples of measures taken that are “beyond Part 192.”**

RISK

- **Chance of Event Happening**
- **Consequences of Event Happening**
- **RISK= CHANCE x CONSEQUENCE**

RISK

- **RISK= CHANCE x CONSEQUENCE**
- **To Reduce Risk:**
  - **Reduce Chance**
    - **And/or**
  - **Reduce Consequence**

Corrosion:
Reduce chance with KS Regulations

- **K.A.R. 82-11-4(i): unprotected steel service and yard line Replacement Plan.**
- **K.A.R. 82-11-4(o): unprotected steel transmission line and main Replacement Plan.**

Corrosion:
Reduce chance with KS Regulations

- **Evaluate replacement plans to see if they are yielding expected results:**
- **If incidences of corrosion remain a threat, may need to improve replacement plans…**
  - ***Trigger service replacement on 10%??***
  - ***Trigger replacement based on age of service.***

Corrosion:
Reduce consequence with KS Regs.

- **K.A.R. 82-11-4(i): unprotected steel service and yard line annual leakage survey.**
- **K.A.R. 82-11-4(o): short section CP reading every 3 years.**

Corrosion:
Reduce consequence with KS Regs.

- **K.A.R. 82-11-4(dd): unprotected steel mains and ductile iron in Class 2, 3, and 4: annual leakage survey.**

- **K.A.R. 82-11-4(o): unprotected steel mains and ductile iron in Class 1, protected bare steel leakage survey every 3 years.**

Corrosion:
Reduce Chance & consequence

- **Long Range Replacement Plans for Pre-Code Pipe.**
  - ***Set up a schedule.***
  - ***Design rates accordingly.***
  - ***Track project to assure on schedule.***
  - ***For municipal operators, grant funds available?***

Excavation Damage: Reducing **chance** of threat

- **KCC enforcement program.**
- **D.I.R.T. data evaluation.**
- **More accurate locates.**
- **On site personnel while excavator working.**

Outside Force:
Reducing **consequence** of threat

- **On site personnel while excavator working in Class 4 areas.**
- **Leak surveys after large excavating jobs are completed.**
- **Depth surveys after large excavating jobs.**

Outside Force:
Reduce chance of threat

- Install barriers where vehicle damage likely.
- Install EFV's on property line meter sets near heavy traffic area.
- Install sufficient number of "swing connections" on meter sets to allow for soil subsidence.
- Replace underground threaded connections.

Outside Force:
Reduce consequence with KS Regulations

- **K.A.R. 82-11-4(cc) mains patrolled at least annually; service lines every 3 years or based on severity of conditions.**
  - ***Procedure on severity of conditions must be included in O&M.***

- **Patrolling for bent risers, subsidence, damaged meter sets.**