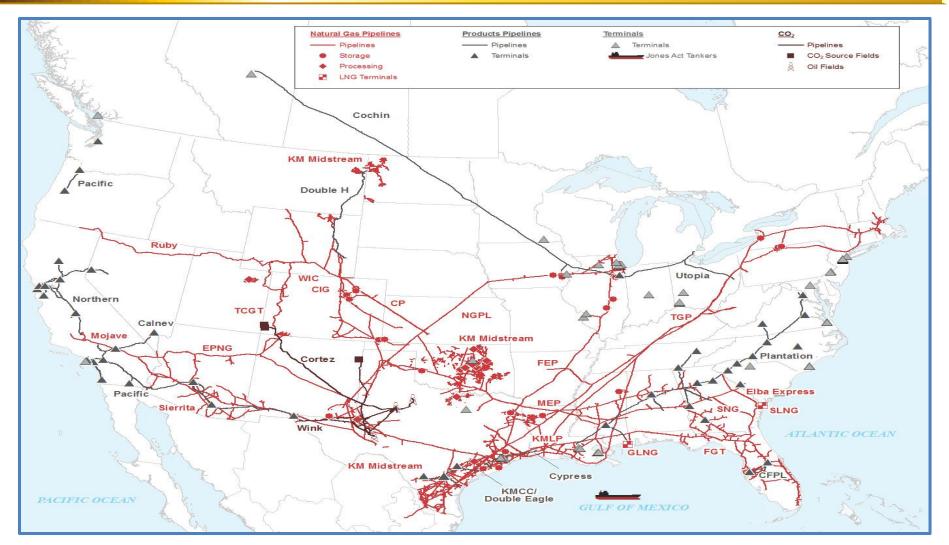


API PSMS Workshop Incident Investigation Pat Carey 12/06/2019



#### Kinder Morgan Overview



KINDER

### Kinder Morgan-- Natural Gas Pipelines





## KM OMS – API 1173 PSMS

- Background
  - KM OMS applies to all BUs Products Pipelines, Terminals, CO2 and Natural Gas Pipelines (84k miles of pipe)
  - Up to the sale of KMC, under NEB jurisdiction, KMC was 5<sup>th</sup> BU. Remaining Canadian assets under Products, Mexico assets operated by NG
  - Written by current CEO in 2007 when he was the COO
  - Early 2015 conducted a comparison of OMS to 1173 using a spreadsheet



# Incident Investigation

- Capture events
  - Open and honest reporting are critical
- Assess significance
  - Evaluate actual and potential consequences
- Formal v Informal Investigation
- Incident Review Committees
- Management Review
- Lessons Learned
  - Closeout of Action Items
  - Sharing findings



## Capture Events Undesired Events

- Procedure Emergency Reporting and Investigation
  - Corporate policy that drives the BU procedure
- Covers all undesirable events, including but not limited to;
  - Employee and Contractor safety
  - Pipeline Safety
  - Vehicle
  - Pipeline encroachment
  - Environmental



## **Business Unit Procedure**

- O&M Procedure
  - Classification Chart triggers internal notifications (ERL)
- Corporate wide application to enter and track



## Investigation

- Software application drives investigation requirement
- Formal v Informal
  - Major/Significant/Minor Incident
- Root Cause
  - Use of formal process such as SCAT/Tap Root/Apollo

#### KINDER

# **Quality Control & Lessons Learned**

- Incident Review Committees, quality and trending
  - Local
  - Regional
  - BU
  - Corporate
- Sharing
  - Management Review of "Notable" & SIF (Serious Injury or Fatality)
  - Incident Flash
- Significant incidents and lessons learned are reviewed during quarterly with Senior Operations personnel from each business unit