Continuing Improvements in Data Availability and Transparency

CSA Z260 Pipeline System Safety Metrics
CSA Z260 Pipeline System Safety Metrics was developed to create industry standard for metrics and terminology for:

1. Transparent and objective communication
2. Benchmarking
3. Improving public understanding of industry and operator performance
4. Analyzing safety systems for continual improvement
Impediments to quality, availability and transparency

- Trust?
- Jurisdiction
- Reworking the same data
How Safe are Pipelines?

Graphs courtesy of US DOT Pipeline and Hazardous Materials Safety Administration, Canada Energy Regulator and Alberta Energy Regulator
CSA Z260

A common lexicon for describing the performance and impact of incidents across the hydrocarbon industry.

CSA Z260 works in tandem with other standards
- API RP 754 – Refining and Processing Sectors
- IOGP 456 – Wells and Production Sectors

Harms based metrics that permit meaningful comparison between Facilities, Pipeline Systems, Operating Companies, Jurisdictions, Industry Sectors
CSA Z260 - Metrics

Simple and uncomplicated metrics

Number of Tier 1 events

Number of Tier 2 events

Number of Tier 3 events for relevant safety barriers

Number of Tier 4 events for factors which affect the health of relevant safety barriers
How does a Metrics Standard help improve safety?

• Metrics don’t improve safety; incident investigations do!

• Metrics do improve:
  ◦ Data collection
  ◦ Record keeping
  ◦ Communication
  ◦ Public and Leadership Attention

• More attention = better investigations
• Better records = better analysis
Next Steps

- Addition of Gas Distribution Systems into the scope
- Benchmarking through Trade Associations
- Adoption by Operating Companies
- Promoting Use