Outline

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• Process for Developing Standard
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  – Balanced Committee

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  – Recommended Best Practices

• Future Considerations
History

- CSA PLUS 663 document on Land Use Planning for Pipelines: *A Guideline for Local Authorities, Developers, and Pipeline Operators*

- The issue with the lack of use and knowledge of the CSA PLUS 663 document was raised at a Canadian Energy Pipeline Association (CEPA) Damage Prevention Working Group meeting in early 2015.
History Con’t

- CSA hosted a workshop in early 2016 sponsored by the CEPA and the Canadian Gas Association.
  - Purpose of the workshop was to promote a safe, proactive, and collaborative multi-stakeholder approach to land development and community growth around pipeline systems.
  - 19 organizations participated in the workshop.
  - General feedback and agreement from the participants was that there was a need for consistency across jurisdictions and a national document that outlines a unified approach on land use planning could be beneficial.
Key Drivers

• There was an inconsistent approach to land use planning near pipelines has the potential to impact public safety.
• Local authorities must deal with issues of land regulation and public safety near pipeline facilities and operations.
• Multi-agency jurisdictional issues were not being addressed.
• There were – and are – safety and financial risk to pipeline operators relating to Class Location.
• There was/is a need to minimize costs to companies, developers and local authorities.
• We must collectively minimize third party damage.
Pipeline Construction
Urban Development

Expansion of new subdivisions around existing pipeline corridors with multiple pipelines.
Pipeline Maintenance

Maintenance activities – integrity testing, brushing, leak detection, & repair/replacement.
Approach by the Technical Committee

- Use the existing PLUS 663 guideline as a seed document.
- Develop a balanced committee of all stakeholders.
- Follow the Standards Council of Canada accredited process for standard development.
Accredited Process

Project Proposal → Assign to Committee → Notice of Intent → Meetings/Draft
Public notification

Public Review → TC reaches consensus → Technical Approval (vote) → Publication
Public notification

Maintenance
Public notification

During this stage the public can:
- submit suggestions for change
- request an interpretation of a requirement
Balanced Committee

- Government/Regulatory Authority/Local Authority
- Owner/Operator/Producer
- User Interest
- General Interest
Scope

• The purpose of the Standard is to provide minimum requirements, guidance, and best practices for land use planning and development processes in the vicinity of existing pipeline systems.
• The Standard also addresses roles, responsibilities, and engagement of all stakeholders to establish a consistent approach.
• The Standard only deals with petroleum and natural gas infrastructure for pipeline systems, but not for sour gas systems (addressed in CAN/CSA-Z662 and legislation) -- and not for future pipeline systems.
Recommended Best Practices

- Several long range policy planning (LRP) and site development policy planning (SDP) recommended practices have been created. They are intended to provide guidance to AHJ’s, proponents/developers, and pipeline operators in whatever planning phase they may be involved in.

<table>
<thead>
<tr>
<th>LRP #</th>
<th>Description</th>
<th>AHJ</th>
<th>Proponent/Developer</th>
<th>Pipeline Operator</th>
</tr>
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<tr>
<td>LRP01</td>
<td>Establish the requirement to incorporate considerations for pipeline systems at all scales of land use planning</td>
<td>X</td>
<td></td>
<td></td>
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<td>LRP02</td>
<td>Obtain current information and map pipeline data</td>
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<td>X</td>
<td></td>
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<tr>
<td>LRP03</td>
<td>Establish a communication process</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
Recommended Best Practices

• LRP’s include:
  – Establish the requirement to incorporate considerations for pipeline systems at all scales of land use planning;
  – Obtain current information and map pipeline data;
  – Establish a communication process;
  – Establish a defined referral zone; and
  – Educate about development in the vicinity of pipeline systems.
Recommended Best Practices

- SDP’s include:
  - Obtain pipeline systems mapping data;
  - Identify appropriate development standards for proposals within the vicinity of pipeline systems;
  - Reduce pipeline systems interference through design and location of new surface parking lots, parkades, new roads, new utilities and related infrastructure, aboveground water management infrastructure, and vegetation;
  - Locate and design water supply, storm drains, and sanitary systems to prevent contamination and excavation damage; and
  - Contact pipeline systems operators prior to excavating, blasting, or making any change to existing ground elevation in the vicinity of pipeline systems.
Public/ Industry Input

- 60-day public review
- 135 comments received
- Comments reviewed and considered for incorporation
Benefits

• Raise awareness of pipelines and the effects of urban development; create consistent land use planning practices across jurisdictions.
• Formalize consultation/communication between stakeholders to assist with public safety in areas of land development where pipeline systems are present or approved.
• Minimize disruption of essential services, property damage, environmental contamination, and serious injury.
• Address the need for mitigation in developed areas.
• Address public expectations for a consistent land use planning approach.
• Provide another tool for consideration by planners, developers, municipalities and authorities having jurisdiction.
• Serve to streamline business processes.
Future Considerations

• This is the first edition. An achievable scope was agreed to for the 24-month timeframe knowing that the committee could expand on it in future editions.

• Some topics that were identified as potential additions would include:
  – AHJ referral forms
  – Long range planning for future pipelines

• The standard was published early. Feedback is welcomed and will be important to help the committee understand what future changes are required.
Questions?

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