

# CSA Z663: Land Use Planning in the Vicinity of Pipelines

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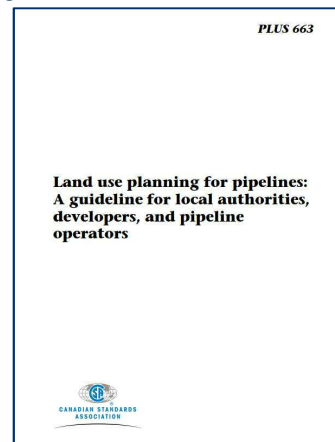
# Outline

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# 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.

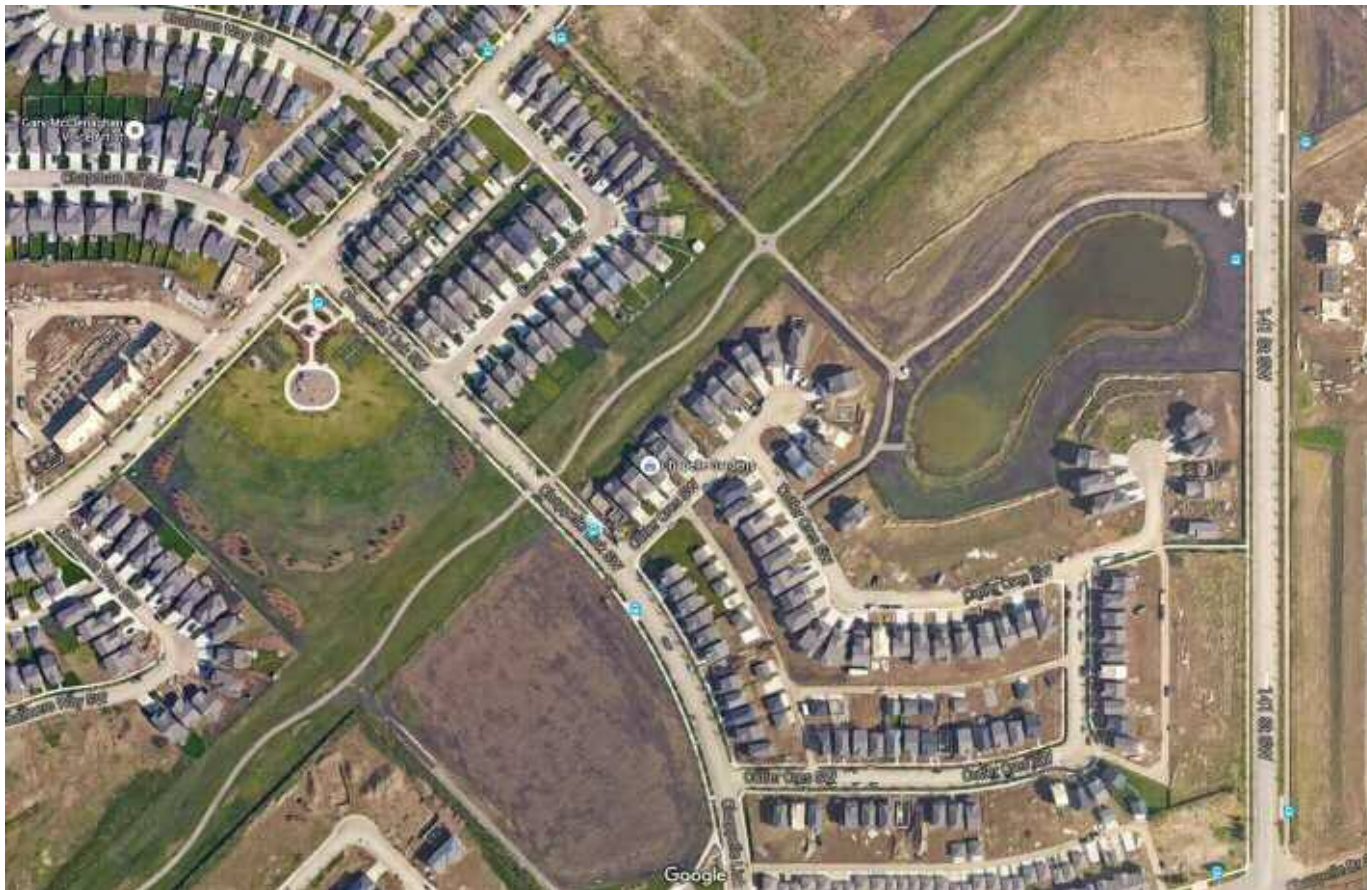
# Pipeline Construction





# Urban Development

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



# Pipeline Maintenance

Maintenance activities – integrity testing, brushing, leak detection, & repair/replacement.

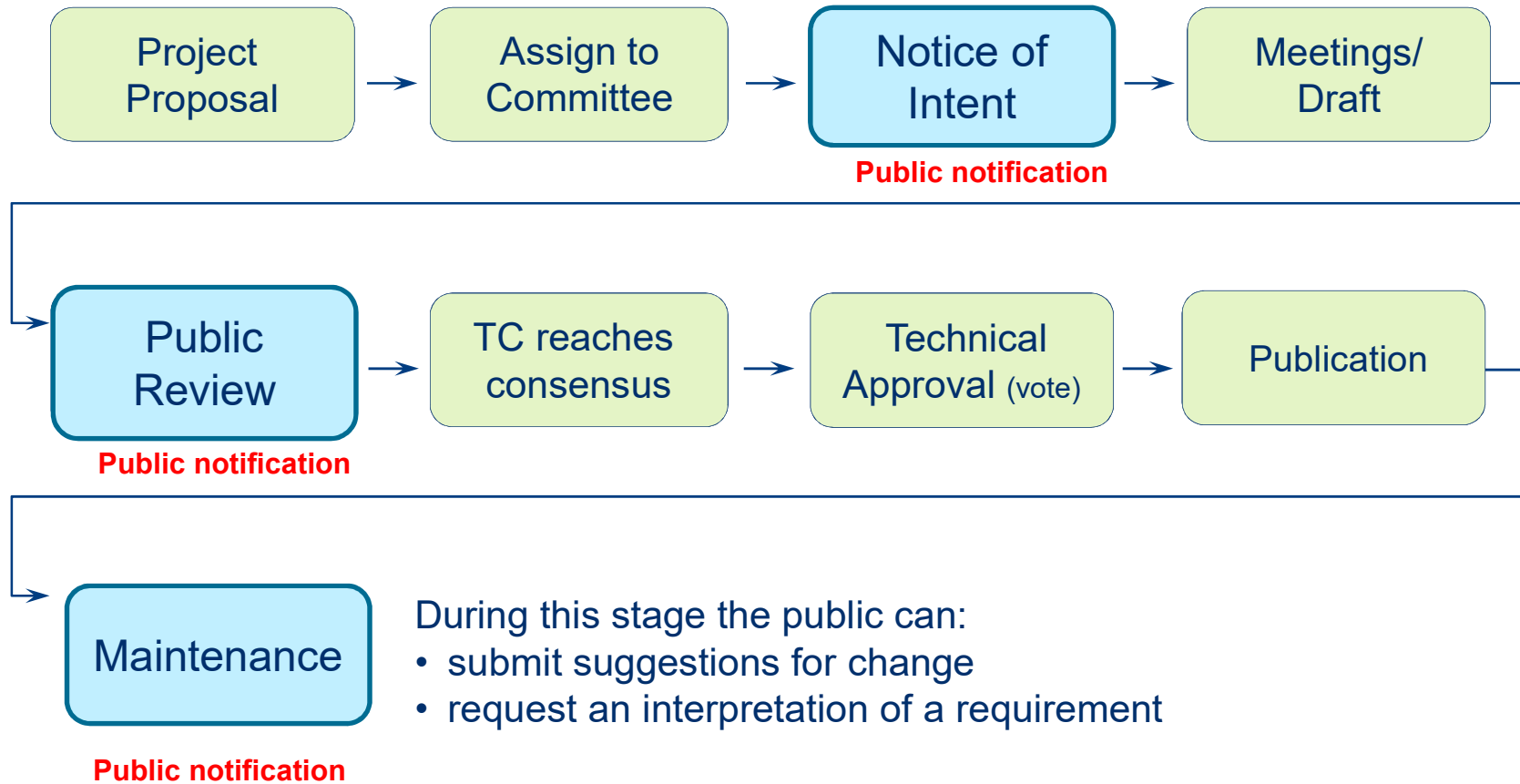




# Approach by the Technical Committee

- 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



# 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.

LRP #	Description	AHJ	Proponent/ Developer	Pipeline Operator
LRP01	Establish the requirement to incorporate considerations for pipeline systems at all scales of land use planning	X		
LRP02	Obtain current information and map pipeline data		X	
LRP03	Establish a communication process	X	X	X
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# 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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