

Track 5: Pipelining in Challenge Areas Introduction

PHMSA R&D Forum Crystal City, Virginia, June 24-25 2009 TransCanada

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Technical Track Session Objectives



- Develop a consensus agenda of technical gaps & challenges for future R&D.
 - Identify both short and long term research objectives for liquid/gas and transmission and distribution pipelines.
 - Conduct basic road mapping on identified technical gaps so identified research are addressing the need effectively.
 - Provide details of the ultimate research goals so appropriate end users are factored into project scopes.
- Track 5: Pipelining in Challenging Areas
 - Arctic, offshore or areas where the design, materials selection, installation and operation of pipelines are significantly challenged.
 - Any areas where geotechnical, ice mechanics or wind/water currents challenge long-term integrity.



Technical Track Session Deliverables



- A list of remaining challenges identified
- Identify the top three to five challenges and for each of them
 - identifying if it addresses technology development, consensus standards strengthening or general knowledge.
 - Identify if the challenge is short term (1-5 years) or long term (more than 5 years) in nature.
 - Identify the impacted pipeline type and operation area.
 - Develop road map to meet the challenges see road mapping guidance



Road Mapping Guidance



- 1. New or Improved Technology
 - a. What pipeline type(s) does the technology target?
 - b. What operating environment(s) would the technology operate?
 - c. What are any functionality and or performance requirements?
 - d. What road blocks or barriers prevent the technology deployment?
 - e. What are anticipated targets or timeframes to complete this research?



Road Mapping Guidance



- 2. New or Revised Consensus Standards (standards, guidelines or recommend practices)
 - a. Does the need address safety or specification related consensus standards?
 - b. Which standard developing organization and which consensus standard name and number is affected?
 - c. What pipeline type(s) does the consensus standard target?
 - d. What operating environment(s) does the consensus standard target?
 - e. What technical details are necessary and recommended?
 - f. Can any targets or timeframes be identified to complete this research?



Road Mapping Guidance



- 3. Creation and Dissemination of General Knowledge
 - a. What pipeline type(s) does the new knowledge target?
 - b. What operating environment(s) does the new knowledge target?
 - c. What technical details are necessary and recommended?
 - d. Can any targets or timeframes be identified to complete this research?



Agenda for Track 5: Pipelining in Challenge Areas



Session 1: Arctic Pipelines

Wednesday, June 24, 2009 1:00 PM to 5:00 PM

- 1:00-1:15 PM: Introduction Joe Zhou
- 1:15-1:30 PM: A Perspective from US Safety Regulator Alan Mayberry
- 1:30-1:45 PM: Experience and Learning from MGP Regulatory Review Process - Alan Murray
- 1:45-2:00 PM: Arctic Pipelines Design and Construction Joe Zhou
- 2:00-2:15 PM: Material, Welding and NDT for Arctic Pipelines David Horsley
- 2:15-2:40 PM: Questions and Answer Session on All Subject Areas
- 2:40-3:00 PM: Break
- 3:00-5:00 PM: Facilitated Open Discussion



Agenda for Track 5: Pipelining in Challenge Areas



Session 2: Offshore Pipelines

Thursday, June 25, 2009 8:00 AM to 12:00 PM

- 8:00-8:15 AM: Overview and direction of session John O'Brien
- 8:15-8:30 AM: Current PRCI Initiatives Relating to Subsea Mark Piazza
- 8:30-8:45 AM: Subsea Technology Gaps a Consulting View Chris Alexander
- 8:45-9:10 AM: Subsea Challenges, Operator Views BP/Chevron
- 9:10-9:30 AM: Subsea Gaps, PRCI Workshop 2009
- 9:30-9:50 AM: Break
- 9:50 AM-12:00 PM: Facilitated Open Discussion



Agenda for Track 5: Pipelining in Challenge Areas



Session 3: Pipelining in Challenging AreasThursday, June 25, 20091:00 PM to 3:00 PM

- 1:00-1:15 PM: Summary of Arctic Pipeline Session Joe Zhou
- 1:15-1:30 PM: Summary of Offshore Pipeline Session John O"Brien
- 1:30-3:00 PM: Facilitated Open Discussion

Session 4: Technical Track Report Outs Thursday, June 25, 2009 3:15 PM to 4:15 PM

• 10 min. per technical track report out

