Guideline for the Management of Pipeline Lifting and Lowering-In Stresses

PRCI – CNST-2-2

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Technical Committee Meeting
October 22-25, 2018
Project Incentive

- Managing stresses during lifting and lowering-in
  - Procedures
  - Tools
- Put the stress analysis in the broad perspectives of pipeline construction
Deliverables

- Guideline
  - Dual-purpose document
    - Main body: straightforward guidelines for lifting and lowering-in strain analysis
    - Appendices: documents to contextualize/enhance lifting and lowering-in stress analysis in previous section
      - Provide context for lifting and lowering-in stress analysis in scope of larger construction project
      - Templates to collect data from/provide output to construction crews

- Application tool
  - Developed to limit need for complicated analysis of continuous lifting and lowering-in
  - Carry out stress calculations and provide recommendations
  - Streamline work in guideline where possible

- Technical report
  - Backing information for guideline and application tool
Guideline Appendices - Contextualizing Stress Analysis

- Workflow for stress management and ECA
  - Where stress analysis fits into larger scope of construction project
  - Breakdown of steps and parties involved

- Key elements for performing ECA and related work
  - Best practices and key items which should be considered in completion of ECA
  - Checklist provided by pipeline operators or welding companies when contracting out the completion of an ECA
Milestones and Key Issues

- **Critical milestones**
  - Application tool release: December 2018
  - Next team meeting: January 2019
  - Draft final report, guideline document, tool with user feedback: March 2019

- **Key issues**
  - Engaging relevant parties (PRCI, INGAA, IPLOCA)
  - Better understanding the intended users
  - Getting feedback

- **Validation**
  - Run tool output using parameters from recently constructed pipeline
  - Compare results with lifting and lowering-in plan developed during ECA for recently constructed pipeline
Thanks

- Q&A