

## CPUCMeeting Materials

Weekly Non-Destructive Examination Program Updates

May 30, 2014

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- PG&E/SE**B**lignment
  - L-114
  - Extent of Conditions for TCI Inspections
  - NDEProgram Enhancementss
  - NDEProgram Validation Protocols/Extent of Conditions (LLNL)
- Completed Activities To Date
- Next Steps
  - Schedule
  - Immediate Needs

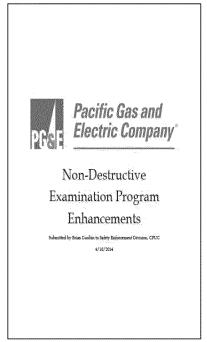


- See presentation dated 3/7/2014 for past items
- Completed all 43 committed digs/re-inspections
- Leak Survey details
  - Leak Survey began on 600 miles of identified Gas Transmission pipeline (12/2/2013)
  - March Leak Survey Finalized
    - Zero leaks found on weld (Girth or Long Seam)
    - Continuing with authorization sutspend "monthly" leak surveys
  - LLNLhas completed comprehensive review of 488 Welds
    - LLNLworking with ATS/Keifner and Associates on 8 welds
      - Believed to be in compliance but wanting to ensure correct interpretation of code
    - Final Report still scheduled "fowe@kof June
    - LLNL feels confident that wredd quality issues are present
    - LLNLwill provide statistical backed position stystem-wide dig program will not provide desired results of determininial inspection compliance.

<sup>1</sup>Activity progress/completion is discussed in the Completed Activities To Date section <sup>2</sup>Dates are contingent on weather, permit, and/or construction schedules DRAFT For Discussion Purposes Only



- Issuance of PG&ENDEProgram EnhancementsPackage
  - Provides full package of PG&Eguidance documents for Gas Operations NDE Program
  - Establishes "best in class" NDEProgram
    - Program built on "Continuous Improvemnt" model (Plan, Do, Check, Act)
    - Program structured for scalability. PG&sed on increased observation, utilizing sound statistical based approaches.
      - Higher volume work = Higher volume Observations
      - QA/QOModel Effectiveness of Control
- Workstream completed





- See presentation from 2/7/2014 for previous notes
  - PG&Eworking to provide proposal for incorporation of Girth Weld Inspection Gaps into Risk Model (provided there are no findings from TCI Validation):
    - Follows a proven industry model (IM Model)
    - Provides for on-going and continuous threat assessment
    - Provides for traceable/verifiable/or plete audit trail (yearly IM Audit)
    - Provides yearly report out on findings (yearly IM Audit)
    - LLNLsupports approach
      - LLNLwill show that there is no reverse latime between weld quality and weld inspection
      - Best approach is to utilize continual mognitoodigram to identify potential areas of concern; which in turn will increase risk profile for a given segment
  - PG&Enas built IM program Frameworkfor Weld Inspection Gaps
    - PG&EDirector of Integrity Mgmtwill present to SEDon 6/6/14
    - PG&Ewill provide framework as an update to approach
    - PG&Erequesting SEDto provide 3<sup>d</sup> Party Validation Consultant for IM Program
    - PG&Evill consider workstream complete upon submission of updated standards/procedures (RMI's and/or RMP's)



- See 2/7/14 presentation for items prior to 2/1/14
- Excavated/Tested/Passed 43 welds as of 3/11/14:
- Completed L-114 Final Report
- Created Mapsof pipeline segments to be Leak Surveyed as a result of L-114 Findings
- Completed 4 monthly Leak Surveys (Dec, Jan, Feb, Mar) of 600 miles of pipeline
- Completed NDEProgram enhancements
  - Implemented for all NDEContractors as of 4/1/2014
- LLNLhas completed review of 488 Non-Compliant welds from TCI
  - Pending final report during week of Jthpe 29014
- Frameworkfor long term IM approach completed



- High Level activities within the next 6 Weeks
  - See 2/7/14 presentation for prior items:
  - Finalize ComprehensiveAnalysis of TCI Data Set
    - Establish required digs (3 months)
    - Finalize digs/re-inspections (TBD)
  - LLNLto complete Final Report of TCI non-compliant x-ray films
  - Presentation of IM framework to SED(6/6/14)
  - Revised IM procedures to incorporate "non-compliant weld inspections" into PG&E
    Integrity ManagemenRisk Model



## Appendix I

## DRAF Responseto "SAMPLE REVIEVof TCI RADIOGRAPHS" by Bureau Veritas

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