

CPU Meeting Materials

Weekly Non-Destructive Examination Program Updates

May 30, 2014

DRAFT For Discussion Purposes Only



- PG&E/SEAlignment
 - L-11∠ **√**
 - 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 subspend "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 nfowe2k of June
 - · LLNLfeels confident that wredd quality issues are present
 - LLNLwill provide statistical backed positiona stystem-wide dig program will not provide desired results of determinimized inspection compliance.

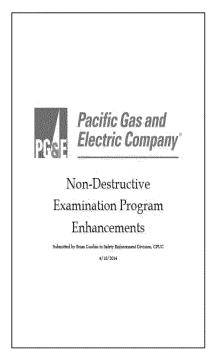
¹Activity progress/completion is discussed in the Completed Activities To Date section ²Dates are contingent on weather, permit, and/or construction schedules DRAFT For Discussion Purposes Only

5



NDEProgram Enhancements

- 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 Improvæmt" model (Plan, Do, Check, Act)
 - Program structured for scalability. P@&fod on increased obseration, utilizing sound statistical based approaches.
 - Higher volume work = Higher volume Observations
 - QA/QCModel Effectiveness of Control
- Workstream completed



DRAFF For Discussion Purposes Only



NDEProgram Validation Protocols

- 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/proplete audit trail (yearly IM Audit)
 - Provides yearly report out on findings (yearly IM Audit)
 - LLNLsupports approach
 - LLNLwill show that there is no reverse lations between weld quality and weld inspection
 - Best approach is to utilize continual mognitoroigram to identify potential areas of concern; which in turn will increase risk profile for a given segment
 - PG&Has 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 Party Validation Consultant for IM Program
 - PG&Ewill consider workstream complete upon submission of updated standards/procedures (RMI's and/or RMP's)

DRAFT For Discussion Purposes Only

9

Completed Activities to Date

- 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 Maps of 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 Jປ່າກຸe 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

DRAFResponseto "SAMPLE REVIEW TCI RADIOGRAPHS" by Bureau Veritas

DRAFT For Discussion Purposes Only