



CPUO Meeting Materials

Weekly Non-Destructive Examination Program Updates

April 11, 2014

Bishop Ranch BRZ1

DRAFT For Discussion Purposes Only

1



- PG&E/SE Alignment
 - L-114 ✓
 - Extent of Conditions for TCI Inspections
 - NDE Program Enhancements
 - NDE Program 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 suspend “monthly” leak surveys
 - LLNL working to provide comprehensive review of 488 Welds
 - Specifications scheduled to complete 4/11/14
 - Film review scheduled to start week of 4/14/14
 - LLNL/PG&E working to get historical inspection data for analysis

¹Activity progress/completion is discussed in the Completed Activities To Date section

²Dates are contingent on weather, permit, and/or construction schedules



NDE Program Enhancements

- NDE Program Enhancements scheduled to roll out 4/7/14
 - 4 contractors evaluated for Radiographic Testing
 - Established minimum requirements for qualification of NDE personnel (GO-TS-001)
 - Executed facility and NDE program audits of all service providers
 - Published manual for PG&E Non Destructive Examination work (TD-4190S)
 - All contractor NDE procedures reviewed
 - PG&E Endorsement Card
 - Proficiency Testing administered for NDE Technicians

NDE Enhancements Presentation



NDE Program Validation Protocols

- See presentation from 2/7/2014 for previous notes
 - Provided sample documents for LLNL to review (LLNL received on 2/3/14)
 - Summary Reader sheets
 - Weld X-Ray films
 - Comprehensive review data
 - PG&E working 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/complete audit trail (yearly IM Audit)
 - Provides yearly report out on findings (yearly IM Audit)



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:
 - 5 welds on L-132
 - 12 welds at Vernalis Station
 - 2 welds at 8 Mile Rd Pressure Limiting Station (PLS)
 - 4 welds on L-108 (MLV38.1)
 - 4 welds at Gateway Generating Station
 - 8 welds at L-108 (MLV38.17)
 - 3 welds on DFM-1616
 - 3 welds on L-331A (WV-7)
 - 2 welds on L-302W
- 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
 - Zero leaks on welds have been found
- Implemented Enhanced NDE Program for all contract NDE Vendors



- High Level activities within the next 6 Weeks
- See 2/7/14 presentation for prior items:
- Finalize Comprehensive Analysis of TCI Data Set
 - Establish required digs (3 months)
 - Finalize digs/re-inspections (TBD)
- LLNL to perform analysis of all film and establish recommendations for re-inspection
 - PG&E/LLNL have finalized contract
 - LLNL has all film for 488 welds
 - Need to finalize Specification
 - Need to complete comprehensive review by LLNL