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# CPUC Meeting Materials

Weekly Non-Destructive Examination Program Updates

April 11, 2014

Bishop Ranch BRZ1

DRAFT For Discussion Purposes Only

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- 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

<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



# NDE Program Enhancements

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- 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

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- 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

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- 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/LLN have finalized contract
  - LLNL has all film for 488 welds
  - Need to finalize Specification
  - Need to complete comprehensive review by LLNL