

CPU Meeting Materials

Weekly Non-Destructive Examination Program Updates

December13, 2013

DRAFT For Discussion Purposes Only



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





- L-114 Final Report complete (See "Noncompliant Weld Inspection Techniques, L-114 Non Destructive Examination Final Report, December 5, 2013")
- L-114 Findings:
 - Pipeline currently in service
 - PG&Fround NOWeld Integrity issues present on L-114
 - PG& Efound on-site vendor performing noncompliant Non-Destructive Examinations

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





- See presentation dated 12/6/13 for past items
- Re-Inspection site status:
 - WV-06A(L-108/L-401) (12/9/2013)
 - 12 welds "finger-printed" and spd inspection per API 1104
 - WV-03A/B(L-108/DFM-0613-06) (12/11/2013)²
 - 2 welds "finger-printed" pandsed inspection per API 1104
 - WV-05D/EL-108) (12/13/2013)²
 - 4 Welds to be removed as pair of pipe replacement project
 - · Welds will be radiographed in platonen tsent to ATS for further testing
- Leak Survey details
 - Leak Survey began on 600 miles of identified Gas Transmission pipeline (12/2/2013)
 - To date 360 Miles have been assessed (as of 12/10/13)
 - 1 Leak indication has been found on segment within Los MedanosStation
 - Further validation required as it may just be vent gas (power gas)
 - 2 indications pending further stringation (thought to be non-PG&E)
 - 3 indications determined to be non-PG&E

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



NDEProgram Enhancements

- Increased job observation frequency from quarterly to weekly (Q1 2013)
- Expanded job observations outside of new construction (Q1 2013)
 - · Station Projects
 - Integrity ManagementInspection Projects
- Issuance of Gas Welding Control Manual (TD-4160M)(Q2 2013)
 - Sets minimumRequirements for qualifications, procedures, and materials for NDE
- Development of Gas NDEControl Manual (TD-4190M) (Started Q2 2013)
 - Establishes procedures for all NDEinspections
- Comprehensivereview of all NDEContractor procedures and qualifications (Q2 2013)
- Engagement of 3rd Party experts for the review and execution of new contracts with NDEservice providers (Q2 2013)
- Integrity ManagementNDEvendor's procedures were reviewed and personnel proficiency tested for the performance of inspections (Q3 2013)
- Facility and NDEprogram audits were conducted for existing and prospective NDE service providers (Q3 2013)
- Online OQTraining modules (Veriforce) developed for contractor NDEpersomel (Q3 2013)



NDEProgram Validation Protocols

- Engaged 3rd Party experts (LLNL) to develop scope and provide historical understanding (11/21/2013)
- Working to establish contracts with Lawrence Livermore National Labs
 - · Working to meet contract requiremts, and fee structure requirements
- LLNLwill work to provide the following:
 - Validation of statistical approach to TCI Extent of Conditions/Remediation
 - PG&Evill work to incorpate LLNLimprovements if any
 - Development of Extent of Condition for Post-'61 Transmission Pipe
 - Development of Validation Protocol for Post-'61 Transmission Pipe
 - Inspection methods
 - · Girth weld integrity
- Leak Analysis Results
 - Total of 2182 Leaks on the Gas Transission System (data covers 1939-2013)
 - Total of 47 Girth Weld Leaks on thes Gransmission System (data covers 1939-2013)
 - Only 7 Girth Weld Leaks on the 600 miles in question%). This indicates the welds are generally of higher quality than those that pre-102614 installations
 - 2% of GTLeaks are on the GlintVVeld (data covers 1939-2013)

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Completed Activities to Date

- See 11/22/13 presentation for items prior to 11/22/13
- Validation of 5 welds on L-132 (11/15/2013)
 - All 5 Welds passed radiographic inspection per API 1104
- Engaged Lawrence Livermore National Labs (LLNL)
 - Developed Scope of Work
 - Initiated contract/agreement
- Excavated/Tested/Passed 19 welds as of 12/12/13:
 - 5 welds on L-132
 - 12 welds at Vemalis Station
 - 2 welds at 8 Mile Rd Pressure Limiting Station (PLS)
- Completed L-114 Final Report
- Created Maps of pipeline segments to be Leak Surveyed as a result of L-114 Findings
 - · Pipeline segments
 - Hydrotested sections
 - ILI Sections
- Began monthly Leak Survey of 600 miles of pipeline

¹This population contained some 2010 and 2011 welds

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Follow-Up Questions from 11/22/13

- SED: How many contractors does PG&Enave doing Radiographic Testing?
 - PG&E: PG&EGas Operations currently has thee vendors performing Radiography (WIX, JANX and Edge/ATS). Wehave also used two additional vendors (TeamIndustrial and Mistras) on the Whisky Slough project.
- SED: Has PG&Ebeen looking at the ability to have all X-Ray images made electronic?
 - PG&E: Yes. PG&Es evaluating variouschloodies to allow for the digitial imaging and storage of RT examinations.
- SED: As contractors are doing Radiography, how does the film get handed off?
 - PG&E: Film is handed off daily, along witheather sheets to theath inspector or General Construction Foreman. Film/Reader Sheets earkept on-site until the end of the project.
- SED: How is film stored at the end of each job?
 - PG&E: Film is turned over to our recordessing area in Walnut Creek (Redacted There it is checked, re-packed and labeled It is then shippedpermanent storage facility located in Brisbane, CA Redacted where it is kept for the life of the asset.
- SED: Whenyou need to look for X-Ray Films, where do you go to get the film?
 - PG&E: Any film needed to be retrievedreignested from the Redacted Facility as detailed above.

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Follow-Up Questions from 11/22/13 (con't)

- SED: What are the film requirements for PG&E/Contractors?
 - PG&E: Please see below excerpt from the attreed PG&ETechnical Specification regarding the use of class I film only.
 - "5.2.8 For film radiography, radiographs shantladaesising ASTMStandard E 1815 Class I film of high contrast and relatively fine grain structure that withepredukts required. Example film may be such as AGFAD4 or D5 film. (Or equivalent)
 - 5.2.10 Class II film equivalent to AGFAD7 shall not be used except upon specific approval by PG&E NDTLevel III and only where very long exposure times would be necessary (e.g., for extreme large diameter (>48" dia using DWSEnethod) and extremely heavy wall sections)."



- High Level activities within the next 6 Weeks
 - See 11/22/13 presentation for prior items:
 - Issue L-114 Final Report [12/6/13] Submitted (12/6/2013)
 - Finalize LLNLcontract (12/13/2013)
 - Inspection of first 20 TCI Welds [12/31/13] (5 completed as of 11/15/2013)
 - Inspection of all 43 TCI Welds [3/31/14]
 - LLNLto validate TCI Dig plan and issue recommendations if necessary (43 digs) (1/15/2013)



Appendix I

Inspection Summaryfor WV-6& WV-3Welds:

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SUMMARY AND ASSESSMENT OF EOC - RE-INSPECTION PERFORMED ON GIRTH WELDS

In accordance with the approved PG&E Inspection Test Plan (ITP), on December 11, 2013 a reinspection utilizing radiographic examination with AGFA D5 film was performed on two (2) girth welds on the WV-3 project at Redacted Pressure Limiting Station in Stockton, CA. Once each of the welds were re-radiographed they were "fingerprinted" (weld features compared against original images) to verify that the original radiographic film images of the weld matched the images of the re-inspected girth weld.

The following weld numbers were re-inspected:

Original Weld Id Number Re-inspection Weld Id Number

W-75 W-76-RI W-76

The following were the results of these-inspections:

Weld Number: W-75-RI Comments: Weld matched fingerprint and weld was determined to be

acceptable to API 1104, 20th edition.

<u>Weld Number</u>: W-76-RI <u>Comments</u>: Weld matched fingerprint and weld was determined to be

acceptable to API 1104, 20th edition.

PG&E had initially identified three (3) welds (Location: WV-3A - Weld #41, & Location: WV-3B – Welds #75 & #76) to be inspected at this location. However, after reviewing the as-built drawing it indicated that Weld #41 to be a weld on 12" OD pipe, yet the original radiographic film and reader sheet for Weld #41 indicated that it had been taken on 8" OD pipe. After further investigation and review, PG&E determined that Weld #41 had actually been found to be located at a different site location. To support this conclusion, Western Industrial X-Ray (WIX) took field measurements of the pipe diameter for Welds #41, #75 and #76 to determine that they were in fact 12" OD, 16" OD, and 16" OD, respectively. The results of the measurements were confirmed and were recorded on the attached WIX inspection

report. A copy of WIX's Radiographic Testing Inspection report indicating the results of their evaluation of welds examined are attached.

This summary completes the evaluation and documentation of the re-inspections performed on the two (2) identified girth welds on the WV-3A & 3B project in Stockton, CA.

Let me know should you require any additional information concerning these reviews and approvals.

Respectfully,

David L. Culbertson

President

ASNT Level III - 2820

ACCP Professional Level III

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DLC/Letter Concerning Results of PGE Reinspection & Findings at WV-3 – Stockton CA 12-11-2013



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Date	12/11/2	2013	Page _	1	_ Of _	1
Radiograph	ic Report	or Contr	ol #	RI	G-D	
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16"X.375	W-76-RI	3	1				25 Work Hours
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							Acceptance Standard 20TH
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Andrews and Andrews Andrews and Andrews an			T				Dia. 16" Material Type: C/S Thickness: 375 Reinf.: 125
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David J. Culletter Date 12/11/13

Report Form WIX-101



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SUMMARY AND ASSESSMENT OF EOC - RE-INSPECTION PERFORMED ON GIRTH WELDS

In accordance with the approved PG&E Inspection Test Plan (ITP), on December 9, 2013 a reinspection utilizing radiographic examination was performed on twelve (12) girth welds on the WV-6A project in Vernails, CA. Once each of the welds were re-radiographed they were "fingerprinted" (weld features compared against original images to verify that the original radiographic film images of the weld matched the images of the re-inspected girth weld.

The following weld numbers were re-inspected:

Original Weld Id Number	Re-inspection Weld Id Number
W-8	W-8-RI
W-9	W-9-RI
W-10	W-10-RI
W-11	W-11-RI
W-12	W-12-RI
W-13	W-13-RI
W-14	W-14-RI
W-15	W-15-RI
W-17	W-17-RI
W-18	W-18-RI
W-21	W-21-RI
W-22	W-22-RI

The following were the results of these-inspections:

Weld Number: W-8-RI Comments: Weld matched fingerprint and weld was determined to be

acceptable to API 1104, 20th edition.

Weld Number: W-9-RI Comments: Weld matched fingerprint and weld was determined to be

acceptable to API 1104, 20th edition.

Weld Number:	W-10-RI	<u>Comments</u> : Weld matched fingerprint and weld was determined to be acceptable to API 1104, 20th edition.
Weld Number:	W-11-RI	Comments: Weld matched fingerprint and weld was determined to be acceptable to API 1104, 20th edition.
Weld Number:	W-12-RI	Comments: Weld matched fingerprint and weld was determined to be acceptable to API 1104, 20th edition.
Weld Number:	W-13-RI	Comments: Weld matched fingerprint and weld was determined to be acceptable to API 1104, 20th edition.
Weld Number:	W-14-RI	Comments: Weld matched fingerprint and weld was determined to be acceptable to API 1104, 20th edition.
Weld Number:	W-15-RI	Comments: Weld matched fingerprint and weld was determined to be acceptable to API 1104, 20th edition.
Weld Number:	W-17-RI	Comments: Weld matched fingerprint and weld was determined to be acceptable to API 1104, 20th edition.
Weld Number:	W-18-RI	Comments: Weld matched fingerprint and weld was determined to be acceptable to API 1104, 20th edition.
Weld Number:	W-21-RI	Comments: Weld matched fingerprint and weld was determined to be acceptable to API 1104, 20th edition.
Weld Number:	W-22-RI	Comments: Weld matched fingerprint and weld was determined to be acceptable to API 1104, 20th edition.

PG&E's Inspection Test Plan (ITP) states that PG&E shall utilize AGFA D7 (or equivalent) Class II film. It was reasoned that the original radiographs by TC Inspection (TCI) were taken with D7 film, and PG&E wanted to ensure the best comparator to the original Class II film images of the welds possible for the re-inspection. The inspection plan (ITP) also states in instance where a closer look at a weld may be deemed necessary to evaluate the weld then a Class I film may be used such as AFGA D4 or

D5 (or equivalent). During the initial inspection at site WV-6A, the first weld examined was performed utilizing both AGFA D7 & D5 and the weld images were compared to the original radiographs taken by TIC. The results of this examination determined that the D5 film greatly enhance the fingerprinting process and provide the best overall film images for evaluation of weld quality. After having a discussion with PG&E Director, Brian Daubin, the decision was made to use the high quality Class I film such as AGFA D5 (or equivalent) moving forward for all remaining welds identified by the re-inspection plan. As a result of this decision, all twelve (12) welds at this site were inspected utilizing AGFA D5 film.

A copy of WIX's Radiographic Testing Inspection report indicating the results of their evaluation of welds examined are attached.

This summary completes the evaluation and documentation of the re-inspections performed on the twelve (12) identified girth welds on the WV-6A project in Vernails, CA.

Let me know should you require any additional information concerning these reviews and approvals.

Respectfully,

David L. Culbertson

President

ASNT Level III - 2820

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DLC/Letter Concerning Results of PGE Reinspection & Findings at WV-6A - Vernails CA 12-92013



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Date	12/09/2013	Page _	IOf	
Radiograph	ic Report or Cor	ntrol #	RIG-D	
Customer		PGE		
Address		TRACY,CA		······································
Customer's	P.O. Number_		al-manuma any manany industrial dan inany in in siyo melalalalalalala	
Job Locatio	n Red:	acted		
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100% Inch	√ Snot Inc	n	Percent	

Piece or Joint #s	Weld Number	Film No.	A	R e	Defect Code	Comments	Work Summary Amount Description
16"X.500	W-8-RI	3	1		<u> </u>		4 Travel Hours 2 # Persons
		***************************************					<u>0700</u> In Time <u>1800</u> Out Time
16°X 500	W-9-RI	3-	17				11 Work Hours
	***************************************						0 Standby Hours
16°X.500	W-10-RI	3	7				15 Total Hours NO Per Diem # Persons
							175 Mileage One Way Round Trip ✓
16"X.500	W-11-RI	3.	1				12 Weld 16" in dia. Weld in dia.
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							Technique Date/Procedure Qualification
16"X.500	W-14-RI	3	1				Inspection Specification API-1104 Acceptance Standard 20TH
					LA COMPOSITION CONTRACTOR		RT Procedure No. RT-7. Shooting Sketch (RSSS)
16"X.500	W-15-RI	3	V				View: <u>DWF_SWV_Source_Ir192_Curies67</u>
							Physical Source Size: 106X.126 Effective Focal Spot: 165
16"X.500	W-17-RI	-3	1			P@11.5"<12	Pb Screens: Front 005 Center N/A Back 005
							Dia 16" Material Type: GR-B Thickness: 500 Reinf: 125
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						Physical Source Size: 106X.126 Effective Focal Spot: 165
16"X.500	W-17-RI	3	1		P@11.5"<12	Pb Screens: Front <u>005</u> Center <u>N/A</u> Back <u>005</u>
						Dia. 16" Material Type: GR-B Thickness: 500 Reinf: 125
16"X.500	W-18-RI	3	1			SFD: 16" Source To Obj.: 15.5 IQI Essential Wire: 016
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