



**Luminant**

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CP-200800609  
Log # TXX-08055

Ref. # 10CFR50.55a

April 24, 2008

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555

**SUBJECT:** COMANCHE PEAK STEAM ELECTRIC STATION  
DOCKET NO. 50-446  
UNIT 2 PRESSURIZER WELD OVERLAY 60 DAY REPORT AND RESULTS OF THE  
FINAL PDI/UT EXAMINATION OF WELD OVERLAYS

**REFERENCES:** 1. Letter logged TXX-07013, "Inspection and Mitigation of Alloy 82/182 Pressurizer Butt Welds" dated January 30, 2007 from Mike Blevins to the NRC.  
2. Letter logged TXX-07095, "Relief Request B-4 to the Unit 2 Inservice Inspection Program Plan - Unit 2 Pressurizer Weld Overlay," dated August 22, 2007 from Mike Blevins to the NRC.

Dear Sir or Madam:

By means of Reference 1, Luminant Generation Company LLC (Luminant Power) committed to submit a report with the results of future inspections or mitigation of Pressurizer Alloy 82/182 butt weld locations within 60 days of startup from the outage during which they were performed.

By means of Reference 2, Luminant Power committed to submit a report summarizing the results of the final PDI/UT examination of weld overlays within 14 days following completion of ultrasonic (UT) examinations of the pressurizer weld overlays performed on Unit 2. Luminant Power completed the UT examination of the Unit 2 pressurizer weld overlays on April 13, 2008.

All nozzle connected piping systems were found to be adequate and structurally acceptable using an estimated weld shrinkage value of 0.35 inches. Since actual shrinkage values for all nozzles were less than the estimated value, the analysis performed to verify structural integrity is bounding and actual weld shrinkage experienced has no adverse impact on all pressurizer nozzle connected piping systems.

Pressurizer Alloy 82/182 butt weld structural weld overlay was completed for Unit 2 during refueling outage 2RF10 which ended April 19, 2008. Please find enclosed the final PDI/UT report for the pressurizer structural weld overlays performed at Comanche Peak Unit 2. No further action is required for Comanche Peak Unit 2 Pressurizer Alloy 82/182 butt welds.

A member of the STARS (Strategic Teaming and Resource Sharing) Alliance

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A110  
A047  
NRR

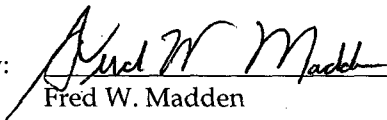
This communication contains no new licensing basis commitments regarding Comanche Peak Unit 2.

Should you have any questions, please contact Mr. Jack C. Hicks at (254) 897-6725.

Sincerely,

Luminant Generation Company LLC

Mike Blevins

By:   
Fred W. Madden  
Director, Oversight & Regulatory Affairs

Enclosure - Comanche Peak Nuclear Power Plant Unit 2 Weld Overlay Examination

c - E. E. Collins, Region IV  
B. K. Singal, NRR  
Resident Inspectors, Comanche Peak

Enclosure to TXX-08055  
Comanche Peak Nuclear Power Plant Unit 2  
Weld Overlay Examination

# **Comanche Peak Nuclear Power Plant Unit 2**

**Weld Overlay  
Examination**

**For**

**Luminant Power Corporation**

**Prepared by:**



**A Westinghouse NDE Company**

**Outage 2R10**

**2008**

## Summary

In support of the Structural Weld Overlay project during RFO 2R10 at Comanche Peak Unit 2, WesDyne performed the PDI exams of six pressurizer nozzles. This report documents the results of the NDE inspections performed by WesDyne in support of that project.

Table 1, "Indications for Pressurizer Weld Overlays", provides detailed results of the final PDI UT inspections performed on the six pressurizer nozzles. There were no recordable indications.

**Table 1. Indications for Pressurizer Weld Overlays.**

Nozzle	Weld Identifications (DM/SS/OL)	Number of Indications Final PDI Inspection	Indication Assessment Summary/Comments
Safety Nozzle "A"	TCX-1-4501-1 TCX-1-4501-2 TCX-1-4501-OL-02	No Recordable Indications	N/A
Safety Nozzle "B"	TCX-1-4502-1 TCX-1-4502-2 TCX-1-4502-OL-02	No Recordable Indications	N/A
Safety Nozzle "C"	TCX-1-4503-1 TCX-1-4503-2 TCX-1-4503-OL-02	No Recordable Indications	N/A
Relief Nozzle	TCX-1-4504-1 TCX-1-4504-2 TCX-1-4504-OL-02	No Recordable Indications	N/A
Spray Nozzle	TCX-1-4506-22 TCX-1-4506-21 TCX-1-4506-OL-02	No Recordable Indications	N/A
Surge Nozzle	TCX-1-4500-6 TCX-1-4500-5 TCX-1-4500-OL-02	No Recordable Indications	N/A

## Coverage

A summary of the volumetric exam coverage is shown in Table 2 for all six nozzles.

**Table 2 Coverage Summary for Pressurizer Weld Overlay, DM Weld Volume, and SS Weld Volume.**

	Safety "A"	Safety "B"	Safety "C"	Relief Nozzle	Spray Nozzle	Surge Nozzle
Weld Overlay Volume						
0 degree Beam	97.5%	98.7%	99.3%	98.1%	98.2%	98.0%
Circ Beams	94.2%	92.4%	93.8%	92.3%	93.2%	91.1%
Axial Beams	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
DM Weld Volume						
Axial Beams	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Circ Beams	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
SS Weld Volume						
Axial Beams	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Circ Beams	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%