



Entergy Nuclear Operations, Inc.
Pilgrim Nuclear Power Station
600 Rocky Hill Road
Plymouth, MA 02360

Stephen J. Bethay
Director, Nuclear Assessment

May 15, 2009

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555-0001

SUBJECT: Entergy Nuclear Operations, Inc.
Pilgrim Nuclear Power Station
Docket No. 50-293
License No. DPR-35

Results of UT Examination of Jet Pump Instrumentation Nozzle RPV-N9A-1 Weld Overlay (TAC NO. ME1151)

REFERENCE: 1. Entergy Letter, 2.09.037, Pilgrim Relief Request (PRR)-19, Jet Pump Instrumentation Nozzle Weld, RPV-N9A-1 Repair Plan, dated May 7, 2009

LETTER NUMBER: 2.09.038

Dear Sir or Madam,

The attachment to this letter provides results of the Ultrasonic Testing (UT) examination of the weld overlay completed on the Jet Pump Instrumentation (JPI) Nozzle Safe-End weld, RPV-N9A-1, as specified in Reference 1, Enclosure 2. The weld overlay was completed during Refueling Outage 17.

The UT examination was conducted using the Performance Demonstration Initiative (PDI) methodology in accordance with the requirements of ASME Section XI, Appendix VIII, Supplement 11 as endorsed by 10 CFR 50.55a and addressed in Pilgrim Relief Request PRR-9, which was approved by the NRC in a Safety Evaluation Report, dated March 22, 2006.

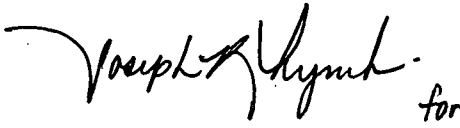
The results of the UT examination of the weld overlay were acceptable relative to the requirements of 1998 ASME Code with 2000 Addenda, Section XI, Appendix VIII, Supplement 11, modified by the PDI methodology.

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NLR

There are no commitments made in this submittal.

If you have any questions, please call Mr. Joseph Lynch, Pilgrim Licensing Manager at 508-830-8403.

Sincerely,

A handwritten signature in black ink, appearing to read "Joseph Lynch", followed by a small "for" written below the signature.

Stephen J. Bethay
Director, Nuclear Safety Assurance

SJB/wgl

Attachment: Results of UT Examination of Jet Pump Instrumentation Nozzle, RPV-N9A-1,
Weld Overlay (1 page)

cc: Regional Administrator, Region 1
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Senior Resident Inspector
Pilgrim Nuclear Power Station

Mr. James S. Kim, Project Manager
Plant Licensing Branch I-1
Division of Operator Reactor Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
One White Flint North 0-8C2
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ATTACHMENT

To Entergy Letter No. 2.09.038

Results of UT Examination of Jet Pump Instrumentation Nozzle RPV-N9A-1 Weld Overlay

Regulatory Commitments Made in Entergy Letter 2.09.037, Enclosure 2	UT Examination results of Jet Pump Instrumentation Nozzle, RPV-N9A-1, Weld Overlay
Weld overlay examination results including a listing of indications detected.	No indications were detected or observed. The achieved coverage included 100% of the PSI Overlay and greater than 98% of the base material for the welds.
Disposition of indications using the standards of ASME Section XI, Subsection IWB-3514-2 and/or IWB-3514-3 criteria and, if possible, the type and nature of the indications	No indications required disposition as a result of the inspection. The Weld Overlay was accepted in accordance with the requirements of ASME Section XI, Appendix VIII, Supplement 11 requirements, as modified by Pilgrim Relief Request PRR-9 for the PDI Methodology.
A discussion of any repairs to the weld overlay material and/or base metal and the reason for the repairs.	No repairs to the weld overlay material were made.