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May 12, 2008

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

Subject: Duke Energy Carolinas, LLC
Oconee Nuclear Station, Unit 1
Docket No. 50-269
Summary Ultrasonic Examination Results of Completed
Alloy 82/182 Weld Overlays
Relief Request 07-ON-004

By letter dated September 13, 2007, Duke submitted Relief Request (RR) 07-ON-004 (ADAMS Accession # ML072620149), applicable to all three Oconee units, to seek relief related to full structural weld overlays on the Decay Heat Removal (DHR) Drop line to Hot Leg Nozzle welds. The RR included a commitment to provide the results of the Ultrasonic Test (UT) examinations of the weld overlays within 14 days of completion of the UT examinations. The NRC staff provided verbal approval of RR 07-ON-004 on November 27, 2007 and written approval on January 17, 2008 (ADAMS Accession # ML073460027).

The Unit 1 UT examination of the DHR drop line weld overlays were completed April 29, 2008. No flaws outside the IWB-3514 criteria were identified, and no repairs were made to the weld overlays, the original base materials or original 82/182 weld materials. The attached Enclosure provides a report summarizing the results of these examinations, per the commitment contained in RR 07-ON-004.

If there are any questions, please contact Corey Gray at (864) 886-6325.

Very truly yours,

Dave Baxter, Vice President
Oconee Nuclear Site

Enclosure

A047
A102
URR

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Enclosure
Weld Overlay Ultrasonic Examination
1EOC24
Summary Report

Decay Heat Removal Drop Line Weld Overlay
Reference Relief Request 07-ON-004

Hot Leg Decay Heat Nozzle Welds:
1-LP-01-0140-25V

Ultrasonic Examination Procedure

SI-UT-126, Revision 3, *Procedure for the Phased Array Ultrasonic Examination of Weld Overlaid Similar and Dissimilar Metal Welds*, was used for examinations of the Decay Heat Nozzle weld overlay (WOL). This procedure, and the examiner who applied the procedure, are qualified through the PDI Program at the EPRI NDE Center.

Decay Heat Nozzle Weld Overlay Examination

Component Identification: DH Weld Overlay 1-LP-01-0140-25V

Examination Date: 04/29/08

Examination Time: 11:45 – 13:00

Weld Overlay Regions Examined: Overlay, Weld and Base Material (Outer 25%)
Dissimilar Metal (DM) Weld

Axial Examination Angles: 0° through 83°

Circumferential Examination Angles: 0° through 70°

Examination Summary: No suspected flaw indications were observed during the examinations. The examination gain was adjusted to maintain the procedure-specified baseline noise level from 5% to 20% of full screen height. The lower range of examination angles detected responses from the inside surface of the component which were useful for monitoring search unit contact / coupling effectiveness during the examination. During the course of the examinations, 100% coverage of the weld overlay material and 100% coverage of the Code-required volume for the DM weld was achieved.