NRR-PMDAPEm Resource

From: Miller, Ed
Sent: Monday, July 07, 2014 2:30 PM
To: 'lawrence.rudy@duke-energy.com'
Subject: Draft RAI for Catawba RR 14-CN-001
Attachments: DRAFT Catawba 1-2 RR 14-CN-001 RAI.docx

Larry,
The NRC staff's draft RAI for the subject relief request is attached to this e-mail. The draft RAI is not an official NRC staff request and is being provided to you to facilitate a subsequent conference call to determine: 1) If the questions clearly convey the NRC staff information needs; 2) Whether the regulatory basis for the questions is understood; 3) Whether the information is already available in existing, docketed, correspondence; and 4) To determine an appropriate response time-frame. After you've had a chance to review the draft information request, please contact me to schedule the conference call.

Ed Miller
(301) 415-2481

Hearing Identifier: NRR_PMDA
Email Number: 1413

Mail Envelope Properties (9C2386A0C0BC584684916F7A0482B6CAFD30068935)

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From: Miller, Ed

Created By: Ed.Miller@nrc.gov

Recipients:
"'lawrence.rudy@duke-energy.com'" <lawrence.rudy@duke-energy.com>
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MESSAGE	672	7/7/2014 2:29:00 PM
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Priority: Standard
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DRAFT REQUEST FOR ADDITIONAL INFORMATION REGARDING

CATAWBA NUCLEAR STATION, UNITS 1 AND 2

RELIEF REQUEST SERIAL NUMBER 14-CN-001

LIMITED VOLUMETRIC EXAMINATION OF CLASS 1 WELDS

DOCKET NOS. 50-413 AND 50-414

By letter dated February 20, 2014 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML14052A387), Duke Energy Carolinas (Duke) submitted relief request 14-CN-001. Pursuant to 10 CFR 50.55a(g)(5)(iii), the request sought relief from the volumetric examination coverage requirements of the ASME Code, Section XI. In order for the NRC staff to complete its review of the relief request, the following additional information is requested.

RAI 1

The NRC compared the volumetric examination coverage amounts obtained during the third 10-year inservice inspection (ISI) interval for the nine welds identified in Table 1 in Duke Energy's Relief Request 14-CN-001, and compared them to the coverage amounts obtained during the second 10-year ISI interval examinations. The NRC noted significant differences in the coverage amounts for the CNS Units 1 and 2 pressurizer surge nozzle to head welds, as summarized in Table 1.

a. Explain the rationale for using the different scan angles to examine the pressurizer surge nozzle to head welds for both CNS units that led to the significantly different amount of coverage observed for these welds.

b. Explain the capability of the 35 degree scan angle to adequately detect flaws in the pressurizer surge nozzle to head welds compared to the standard 45 degree and 60 degree scan angles.

c. The figures in 14-CN-001 associated with this component indicate welds that have been ground flush. Clarify the surface condition of the welds and whether credit was taken for scans performed over the welds.

ENCLOSURE

Table 1. Pressurizer Surge Nozzle to Head Weld Examination Coverage Amounts

CNS Unit	Weld	3rd ISI Interval Coverage and Scan Angles (1)	2nd ISI Interval Coverage and Scan Angles [Date of Exam, Source]	Change in Coverage
1	1-PZR-W1	81.4 % Scan angles used: 35°, 45°, 60°	77.2 % [2005, September 8, 2005 Relief Request (ML052590564)] Scan angles used: 35°, 45°	+ 4.2 %
2	2-PZR-W1	81.2 % Scan angles used: 35°, 45°, 60°	42.8 % [2001, December 20, 2001 Relief Request (ML0203300121)] Scan angles used: 60°, 70°	+ 38.4 %

Note: (1) Source: Relief Request 14-CN-001 (ML14052A387).