

From: Sreenivas, V
Sent: Tuesday, April 06, 2010 1:44 PM
To: 'david.heacock@dom.com'
Cc: 'david.sommers@dom.com'; 'Tom Shaub'; Kulesa, Gloria; Cotton, Karen; Bedi, Gurjendra; McMurtray, Anthony
Subject: NORTH ANNA, UNITS 1 AND 2, REQUEST FOR ADDITIONAL INFORMATION-Relief Request for Fourth 10-year Interval Inservice Testing Program for Pumps and Valves

REQUEST FOR ADDITIONAL INFORMATION (RAI) FOR NORTH ANNA POWER STATIONS (NAPS)

(TAC Nos ME2748, ME2749, ME2753 thru ME2760, ME2763 thru ME2772, and ME2776 thru ME2789)

By letter dated November 24, 2009 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML093350600), Virginia Electric and Power Company, (the licensee) submitted Fourth Interval Inservice Testing (IST) Program Relief Requests from certain Code requirements for P-1 thru P-8 for pumps, and V-1 thru V-3 for North Anna Power Station, Units 1 and 2, respectively.

RAI P-1-1: Pump Relief Request No. P-1, Section 4.0, Reason for Request, first paragraph, second line states "There is at least one pump in each group with at least one vibration reference value (Vr) that is currently less than 0.05 inch per second (ips). Please specify and clarify which pump(s) from each of the pump groups have vibration reference value less than 0.05 ips, because this relief request is only applicable to pumps whose measured reference value (Vr) is less than 0.05 ips.

RAI P-1-2: Pump Relief Request No. P-1, Section 4.0, Reason for Request, third paragraph, second line states "This minimum value will be applied to individual vibration locations for the pumps listed in Table P-1 where the measured reference value is less than 0.05 ips." Please verify and confirm that each pump listed in Table P-1 has at least one reference value less than 0.05 ips.

RAI P-1-3: Pump Relief Request No. P-1, Section 4.0, Reason for Request, does not include information on (1) bearing temperature measurement and trending; (2) thermography analysis; and (3) enhanced vibration monitoring, as part of NAPS Predictive Maintenance Program (PdM). Please confirm that the PdM at NAPS, Units 1 and 2 includes information such as bearing temperature trending, thermographic analysis, and enhanced vibration monitoring.

RAI P-1-4: Pump Relief Request No. P-1, Section 7.0, Precedents, the last paragraph, states that "Note that Relief Request P-1 applies to all pumps within the group listed in Table P-1. Pumps 1-CH-P-1B, 1- HV-P-20C and 1-RS-P-3B for NAPS Unit 1, and 2-CH-P-1A, 2-CH-P-1C, 2-FW-P-3B, 2-HV-P-20C and 2-SI-P-1B for NAPS Unit 2 do not have a measured reference value below 0.05 ips for a particular vibration location but are included in the relief request scope." Please provide the measured reference values for these pumps.

RAI-P-5-1: Pump Relief Request No. P-5, Section 5.0, Proposed Alternative and Bases for Use, second paragraph, first line states "The removal of quarterly flow testing of these pumps has been deemed acceptable per NRC Generic Letter (GL) 89-04, Position 9". Please note that the use the GL 89-04, Position 9 requires that data (differential pressure and vibration) collected during minimum-flow testing (quarterly) and data from full flow (cold-

shutdown or refueling outage) should be trended as required by IWP-6000 (Now it is ISTB-6000). Relief Request P-5 does not discuss trending of the measured data while using GL 89-04, Position 9. Please confirm that the trending of measured data will be performed at NAPS, Units 1 and 2 for P-5 as required by GL 89-04, Position 9.

RAI-P-6-1: Pump Relief Request No. P-6, Section 4.0, Reason for Request, ISTB-3300(e)(1), first paragraph, fourth line states that the "The LOCA containment analysis flow rate of 3350 gpm will be used as the pump design flow." In the NAPS, Units 1 and 2 previous (third) 10-year IST program, the design flow used for these pumps 1-RS-P-2A/2B and 2-RS-P-2A/2B was 3640 gpm. Please explain the different design flow values for these pumps.

Docket Nos. 50-338, 50-339 for NAPS

Please submit the docketed response to these RAI's by May 5, 2010. If you have any questions, please contact me at 301-415-2597.

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