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SORENSEN,G.C. Washington Public Power Supply System
RECIP.NAME RECIPIENT AFFILIATION
SCHWENCER,A. Licensing Branch 2

SUBJECT: Confirms that solenoid valves on all MSIV actuators replaced w/qualified units,per SER (NUREG-0892,Suppl 3).

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December 5, 1983
G02-83-1114

Docket No. 50-397

Director of Nuclear Reactor Regulation
Attention: Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT 2
MAIN STEAM ISOLATION VALVE ACTUATOR
SOLENOID VALVE REPLACEMENT

Reference: Safety Evaluation Report related to the Operation of Supply System Nuclear Project No. 2, Docket No. 50-397, NUREG-0892, Supplement No. 3, dated May 1983

As directed in Section 3.10.2.2 of the reference document, the Supply System confirms that the solenoid valves on all main steam isolation valve actuators have been replaced with qualified units, Asco Model NP8323A20E.

Very truly yours,

GC Sorensen

G. C. Sorensen, Manager
Regulatory Programs

KRW/sms

cc: R Auluck - NRC
WS Chin - BPA
A Toth - NRC Site

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(031.001)
(11.6-1)

Your response to Item 031.001(h) presents a new design for the logic of the main steam line isolation valves which is different from that reviewed and accepted for licensing on similar boiling water reactors. Provide the manufacturing drawings for ASCO Valve No. 832320. Additionally, provide the results of the engineering analysis and the test results which demonstrate the ASCO Valve No. 832320: (1) is qualified for the environment in the drywell following a loss-of-coolant accident; (2) is seismically qualified; (3) meets the physical separation and the required electrical independence in accordance with the staff positions contained in Regulatory Guide 1.75; (4) satisfies the single failure criterion (previous designs accepted for licensing have used two separate valves in a one-out-of-two logic for a reactor trip). Note that Table 1.6-1 of the FSAR states that the GE Topical Report, APED-5750, is applicable to the WNP-2 facility and that Table 7.1-1 indicates the main steam line isolation valves are designed and supplied by GE. Accordingly, provide justification for the change to the design which was previously reviewed and approved by the staff in our evaluation of the GE Topical Report, APED-5750.

Response:

The main steam line isolation valve logic is the same for WNP-2 as that supplied for previously reviewed and accepted for licensing BWRs.

(1) The equipment qualification reevaluation effort at WNP-2 determined that the solenoid pilot valves on the main steam isolation valve required replacement in order to provide units qualified for the environment potentially experienced. The replacement valves are Asco Model NP8323A20E. Environmental qualification information for these valves are included in the Supply System's Environmental Qualification Report referenced in Section 3.11.

(2) The original solenoid valve was qualified for original seismic requirement when tested with complete valve (Wyle Laboratories -- Seismic Simulation Test Report #42610-1, dated 2/27/74). The solenoid valve remained functional during all phases of the testing. Reevaluation of the seismic qualification followed the decision to replace the valve with Model NP8323A20E. The replacement valve was determined to be qualified and the qualification documentation is maintained in the Supply System qualification program files.

(3) The protection system criteria of IEEE 279-1971 are met with this design; the requirements of Regulatory Guide 1.75 were not committed for this plant, however, the design and installation meets the separation criteria established for this plant.

(4) The ASCO valves in question are not used in generating a reactor trip. The ASCO valves are used in a two-out-of-two logic for each MSIV. That is, in order for each MSIV to be isolated both ASCO solenoids must deenergize. The ASCO valves themselves are not single failure proof. Single failure criterion is preserved since each main steam line contains two valves in series. If a single failure occurs in one valve scheme the second will provide isolation.

There is no deviation from the commitments made in APED-5750.

Because the decision to replace the valves has been made, the qualification concern is satisfied and the need for valve drawings is presumed to no longer exist.