JAN 23 1975

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Docket Nos. STN 50-508/509

R. DeYoung, Assistant Director for Light Water Reactors, Group 1, L

ROUND TWO QUESTIONS AND POSITIONS FOR WASHINGTON NUCLEAR PROJECT, UNITS 3 AND 5 PSAR REVIEW

Plant Name: Washington Nuclear Project, Units 3 and 5
Licensing Stage: CP
Docket Numbers: STN 50-508/509
Responsible Branch: LWR 1-3
Project Leader: P. O'Reilly
Description of Response: Round Two Questions and Positions
Requested Completion Date: January 24, 1975
Review Status: Under Review

We have reviewed the amended PSAR for the Washington Nuclear Project Units 3 and 5 and have determined that additional information is necessary. The applicant has not provided for instrumentation for annunciation of the buildup of potentially explosive mixtures in the proposed radioactive gaseous waste system, has not described adequately the methods for verifying the absence of free liquids following the solidification of liquid wastes, and has not provided a system capable of monitoring process and effluent streams during postulated accidents.

Enclosed are our positions and the additional information we will need to complete our review. We need this information by March 28, 1975, to meet our schedule.

Original Signed by
Robert L. Tedesco

Robert L. Tedesco, Assistant Director
for Containment Safety
Division of Technical Review
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc: w/o enclosures
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memo 4

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011.0 EFFLUENT TREATMENT SYSTEMS BRANCH

011.9 (11.3.3.1.3) Your response to Q 011.5 indicates that continuous monitoring of hydrogen in the radioactive gaseous waste system has not been provided. Since the system is not designed to take the consequences of a hydrogen explosion, continuous monitoring should be provided for annunciation of the buildup of potentially explosive mixtures. Provide a system for continuous monitoring of hydrogen in the radioactive gaseous waste system.

011.10 (11.4) Your response to Q 011.6 does not address the monitoring of radiation levels in process and effluent streams during postulated accidents. To meet Design Criterion 64 of Appendix A to 10 CFR Part 50, process and effluent streams that can affect the health and safety of the public must be monitored during postulated accidents. Provide a system to monitor process and effluent streams during postulated accidents or justify your position.

011.11 (11.5) Your response to Q 011.7, part (1), does not satisfactorily describe a method for assuring that all liquids have been combined into the solid matrix after the process is completed. You should consider methods such as ultrasonic or electrical conductivity for making this determination. Your design should include provisions to re-package wastes in which liquids are detected.

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R. C. DeYoung, Assistant Director
for Light Water Reactors, Group 1
Division of Technical Review

Q2 QUESTIONS ON PSAR FOR WASHINGTON PUBLIC POWER SUPPLY SYSTEM, DOCKET NOS. 50-508 and 509

Plant Name: Washington Nuclear Project No. 3 (WNP-3) and No. 5 (WNP-5)
Docket No.s: 50-508 and 50-509
Licensing Stage: PSAR
Responsible Branch & Project Manager: LWR 1-1, P. O'Reilly
Responsible TR Branch and Technical Reviewer: MEB, F. Cherny, P. Chen
Requested Completion Date: 1/24/75
Description of Response: Q-2 Review of PSAR
Review Status: Awaiting Information

Adequate responses to the enclosed list of positions prepared by the Mechanical Engineering Branch, Division of Technical Review are required before we can complete our review of the subject application. In compiling the positions and questions contained in the attachment hereto, responses were evaluated through Amendment 8.

The responses to MEB Q-1 questions 110.4, 110.6, 110.7, 110.9, 110.10 and 110.11 have not been completely evaluated because these questions were related to the referenced topical report BIR-1002 which has not been officially submitted to the NRC (AEC) for review. Based on the results of the topical report review, additional questions may be asked.

R. R. Maccary, Assistant Director
for Engineering
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cc w/encl:
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