

October 16, 1990

Docket Nos. 50-338
and 50-339

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Mr. W. L. Stewart
Senior Vice President - Nuclear
Virginia Electric and Power Company
5000 Dominion Blvd.
Glen Allen, Virginia 23060

Dear Mr. Stewart:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION REGARDING AMENDMENT REQUEST
TO DELETE THE RESIDUAL HEAT REMOVAL (RHR) SYSTEM AUTOCLOSURE
INTERLOCK FOR NORTH ANNA, UNITS NO. 1 AND NO. 2 (NA-1&2)
(TAC NOS. 76956 AND 76957)

The NRC staff is reviewing the above subject amendment request dated April 27, 1990. Based on the staff's review, additional information is required in order for the staff to complete its review of your amendment request. The additional information is provided in the enclosure to this letter. We request that the additional information be provided for our review within 60 days of receipt of this letter.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than 10 respondents; therefore, OMB clearance is not required pursuant to P. L. 96-511.

Sincerely,

(Original Signed By)

Leon B. Engle, Project Manager
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
See next page

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Virginia Electric & Power Company

North Anna Power Station
Units 1 and 2

cc:

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NORTH ANNA POWER STATION, UNITS
NO. 1 AND NO. 2 (NA-1&2)
DOCKET NOS. 50-338 AND 50-339

NOTE: These questions are expanded from the staff positions in the NRC Safety Evaluation Report (Enclosure 1) WCAP-11736-A, Volume I.

- (1) The staff position taken in WCAP-11736-A was that an alarm shall be added to each RHR suction valve which will actuate if the valve is open and the pressure is greater than the open permissive setpoint and less than the RHR system design pressure minus the RHR pump head pressure [justified by WCAP-11736]. The PRA analysis in the WCAP-11736 includes these alarms. Your proposed changes do not include alarms to each RHR suction valve and your procedural arguments do not provide an acceptable alternate. Justification that your proposal provides an overall reduction in risk needs to be provided, or the aforementioned alarms need to be provided.
- (2) If suction valve alarms are to be provided, the valve position indication to the alarm must be provided from the stem mounted limit switches (SMLSs) and power to the SMLSs must not be affected by power lockout of the valve [justified by WCAP-11736]. If suction valve alarms are provided, will valve position indication be maintained available in the control room upon removal of power to the RHR suction MOVs?
- (3) If suction valve alarms are to be provided, procedural improvements associated with the alarm should be implemented. These should include procedures to: (a) confirm operability of the alarm circuitry including a surveillance procedure to make sure the alarm is operable, (b) recognize the alarm so that when there is an alarm, it will be known what it is for and what should be done, and (c) avoid pressurizing until the problem is ascertained and proper steps taken. If suction valve alarms are to be provided, please describe your procedure improvements relative to the above.

- (4) You have stated that you will verify isolation of the RHR system by closing and de-energizing both remote operated RHR suction isolation valves and locking the associated breakers. This is done prior to exceeding 500 psig RCS pressure. What means are used to assure the valves are closed subsequent to de-energizing the breakers at times when a leak check is not performed.
- (5) In a telecon you indicated that the RHR suction valve operators are sized so that the valves cannot be opened against full system pressure. Please confirm this.