

UNITED STATES NUCLEAR REGULATORY COMMISSIONVIRGINIA ELECTRIC AND POWER COMPANYDOCKET NOS. 50-338 AND 50-339NOTICE OF ENVIRONMENTAL ASSESSMENT AND FINDING OFNO SIGNIFICANT IMPACT

The U. S. Nuclear Regulatory Commission (the Commission) is considering issuance of a relief from the requirements of ASME Code Section XI to Virginia Electric and Power Company (the licensee), for the North Anna Power Station, Units No. 1 and No. 2, located in Louisa County, Virginia.

ENVIRONMENTAL ASSESSMENT

Identification of Proposed Action: The relief will allow the licensee not to perform the visual examination for support components for piping, valves and pumps that are buried within component insulation. The relief would allow the examination area to extend from the surface of the component insulation provided the support either carries the weight of the component or serves as a structural restraint in compression. In addition the examination area for which relief is requested applies to Class 1, 2 and 3 support components.

The relief is responsive to the licensee's application dated August 10, 1984.

The Need for the Proposed Action: Section XI of the ASME Boiler and Pressure Vessel Code, 1974 Edition with Summer 1975 Addenda, Table IWB-2500, examination category B-K-2, (support components for piping, valves and pumps) requires the examination area to include the support components that extend from the piping, valve and pumps attachment to and including the attachment to the supporting structure. In addition, ASME Section XI, 1974 Edition with Summer 1975

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Addenda, Subarticle IWD-2600(c), does not define examination areas for supports, restraints and hangers. The above ASME XI, 1974 Edition with Summer 1975 Addenda appropriately applies to the North Anna Power Station, Units No. 1 and No. 2.

However, ASME Section XI, 1977 Edition with Summer 1979 Addenda, Subarticle IWF-1300 (e), allows the examination area (of a nonintegral support that is insulated where the mechanical connection is buried within the component insulation) to extend from the surface of the component insulation provided the support either carries the weight of the component or serves as a structural restraint in compression.

The relief would allow the use of the approved later edition of the code and is consistent with the As Low As Reasonably Achievable (ALARA) program for the North Anna Power Station. Many man-rem of radiation exposure can be saved that would otherwise be required to remove and reinstall insulation from support components.

In addition, the examination area as requested in the relief request is consistent with all later editions of the approved ASME XI Code to date. Accordingly, the relief requested will not result in any shortcoming of the required inservice inspection program to meet the requirement of 10 CFR 50.55a(g)(4).

Environmental Impacts of the Proposed Action: The proposed relief will not compromise the required inservice inspection program at the North Anna Power Station. Therefore, the probability that piping, valves and pumps will not meet inservice testing requirements will not be increased and postaccident radiological releases will not be greater than previously determined nor does

the proposed relief otherwise affect radiological plant effluents. Therefore, the Commission concludes that there are no significant radiological environmental impacts associated with this proposed relief.

With regard to potential non-radiological impacts, the proposed relief involves features located entirely within the restricted area as defined in 10 CFR Part 20. It does not affect non-radiological plant effluents and has no other environmental impact. Therefore, the Commission concludes that there are no significant non-radiological environmental impacts associated with the proposed relief.

Alternative Use of Resources: This action involves no use of resources not previously considered in the Final Environmental Statement (construction permit and operating license) for the North Anna Power Station, Units No. 1 and No. 2.

Agencies and Persons Consulted: The NRC staff reviewed the licensee's request and did not consult other agencies or persons.

FINDING OF NO SIGNIFICANT IMPACT

The Commission has determined not to prepare an environmental impact statement for the proposed relief.

Based upon the foregoing environmental assessment, we conclude that the proposed action will not have a significant effect on the quality of the human environment.

For further details with respect to this action, see the application for the relief dated August 10, 1984, 1983 which are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C., and at the Public Document Rooms located at Board of Supervisors Office,

Louisa County Courthouse, Louisa, Virginia 23093 and the Alderman Library, Manuscripts Department, University of Virginia, Charlottesville, Virginia 22901.

Dated at Bethesda, Maryland this 22nd day of August, 1984.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by:

Frank J. Miraglia, Acting Director
Division of Licensing

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more info
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