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UNITED STATES NUCLEAR REGULATORY COMMISSION

VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NO. 50-338

NOTICE OF ENVIRONMENTAL ASSESSMENT AND FINDING OF

NO 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 North Anna Power Station, Unit No. 1 (NA-1), located in Louisa County, Virginia.

ENVIRONMENTAL ASSESSMENT

Identification of Proposed Action: The relief would negate the licensee's need to perform required hydrostatic testing of the NA-1 Steam Generator No. A after valve weld repairs prescribed in Section XI of the ASME Boiler and Pressure Vessel Code.

The relief is responsive to the licensee's application for relief dated August 3, 1984.

The Need for the Proposed Action: The proposed relief is needed because a 1½ inch globe valve which is a socket welded vent valve on the steam header is leaking and requires a replacement valve. ASME XI, Subsection IWA-4000 requires a pressure test after weld repair. To hydrostatically test this repair weld, a secondary hydrostatic test must be performed on the A-steam generator up to the main steam trip valve.

The NA-1 steam generators were designed for a limited number of hydrostatic tests. In order to reduce the number of hydrostatic tests performed on the

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steam generator, the licensee will perform a liquid penetrant examination on the joint end prep and final weld of the valve. In addition, the liquid penetrant examination would be supplemented by a leakage test at operating pressure in accordance with Section XI, Subsection IWC-5000. The licensee's proposed alternate examination of the vent valve on the steam header will provide adequate indication of weld integrity.

Environmental Impacts of Proposed Action: The proposed relief will provide adequate assurance of valve weld integrity that is equivalent to that prescribed by the ASME Code. Consequently, the probability of the valve weld not operating properly 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, Unit No. 1.

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

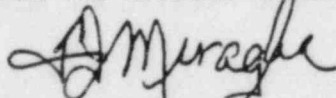
The Commission has determined not to prepare an environmental impact statement for the proposed relief.

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 3, 1984 which is 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 the 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



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