

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

W. L. STEWART
VICE PRESIDENT
NUCLEAR OPERATIONS

October 18, 1984

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
Attn: Mr. Darrell G. Eiserhut, Director
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No: 579
NO/DWL/lms
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
HYDROELECTRIC POWER PROJECT AT
NORTH ANNA POWER STATION DAM SITE

This letter is to advise you of Vepco's plans to build a small hydroelectric power unit at the North Anna Power Station dam site. This hydroelectric unit would utilize the normal water flow which passes through the North Anna Dam. The hydroelectric unit is designed to operate using the required 40 cubic feet per second (cfs) minimum flow through the dam and flows up to a maximum of 177 cfs. The hydroelectric unit generating capacity at maximum flow is 855 KW.

Because of the hydroelectric project's location at the North Anna Power Station dam site, the North Anna Technical Specifications were reviewed in order to determine the potential for any impact on the North Anna Power Station. Two items were identified from this review. First, the incremental environmental impact of the hydroelectric project was assessed. Since the hydroelectric project utilizes the minimum flow from the dam and additional flow only when it is available and the flow used is returned directly to the downstream flow of the dam discharge, no impact to the downstream environment would occur. Secondly, the impact on the seismic stability of the North Anna dam was evaluated. The hydroelectric unit power platform will be a separate structure which is not connected to the North Anna dam except by a penstock pipe which provides the water supply to the power platform. The penstock will intersect with and take the place of the existing 6 foot diameter sluice pipe which currently passes the flow controlled by the dam skimmer gates. The penstock will run along and be anchored to the spillway retaining wall to the downstream power platform area. The effect of the penstock penetration at the sluice pipe and the placement of the penstock on the retaining wall have been analyzed to determine that any change in the North Anna dam seismic stability and its safety factors are negligible.

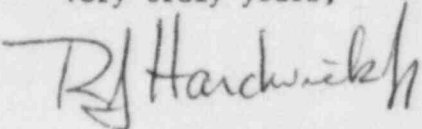
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VIRGINIA ELECTRIC AND POWER COMPANY TO Harold R. Denton

In March 1984, Vepco filed an "Application for Exemption of Small Hydroelectric Power Project from Licensing" with the Federal Energy Regulatory Commission (FERC Project No. 6335). With this action and our assessment that this project will not impose any negative impact on the environment or on the continued safe operation of the North Anna Power Station, we are proceeding with our plans to construct this facility. Our plans are to begin construction in 1985. If you have any questions or concerns regarding this project, please contact us prior to November 30, 1984 so that we may resolve any concerns prior to the start of construction.

Very truly yours,


for W. L. Stewart

cc: Mr. James P. O'Reilly
Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
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