

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

W. L. STEWART
VICE PRESIDENT
NUCLEAR OPERATIONS

June 18, 1984

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
Attention: Mr. James R. Miller, Chief
Operating Reactors Branch No. 3
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Serial No. 298
EC/MGD:jdm:2001N
Docket Nos. 50-338
50-339
Licensing Nos. NPF-4
NPF-7

Gentlemen:

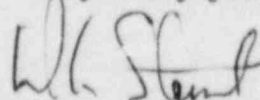
VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION - UNITS 1 AND 2
ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

In accordance with 10CFR50.49 paragraph (h) of the Equipment Qualification Rule, we are requesting an extension to March 31, 1985 for completing the environmental qualification of the hydrogen recombiner equipment for North Anna Units 1 and 2. This extension is requested because we have not been able to procure qualified motors that can be installed in the required location due to space limitations. Motor qualification was conservatively based on worst case post accident containment environmental conditions. We have performed a detailed evaluation of the actual environmental conditions to which the motors are exposed, resulting in less harsh conditions. We should be able to procure motors qualified to the revised environmental conditions.

A Justification for Continued Operation (JCO) was submitted on August 24, 1981 (letter Serial No. 330) for Unit 1 and on September 4, 1981 (letter Serial No. 355) for Unit 2. This JCO has been reviewed by Franklin Research Center and found to be acceptable. We have since re-reviewed the JCO and still find it to be applicable. A copy of the JCO is attached.

Thank you for your consideration in this matter.

Very truly yours,


W. L. Stewart

cc: Mr. James P. O'Reilly
Regional Administrator
Region II

Mr. M. W. Branch
NRC Resident Inspector
North Anna Power Station

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Hydrogen Recombiners

(1-HC-HC-1, 2-HC-HC-1)

Two recombiners are available for North Anna Units 1 and 2. The recombiners are redundant and can be used on either unit. The experience detailed in Rockwell International review document AI-N139T1120010, p. 42-44, "Three Mile Island Recombiner Post-LOCA Operation," shows that the TMI-2 operational experience of a recombinder with the same or similar (e.g., insulation class) components performed for as long as it was needed and in an environment more severe than specified for either North Anna Unit. The North Anna hydrogen recombiners can therefore be relied upon until the above qualification/replacement activities are completed.