

**VIRGINIA ELECTRIC AND POWER COMPANY**  
**RICHMOND, VIRGINIA 23261**

**R. H. LEASBURG**  
VICE PRESIDENT  
NUCLEAR OPERATIONS

June 14, 1982

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
Attn: Mr. Robert A. Clark, Chief  
Operating Reactors Branch No. 3  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Serial No. 329  
NO/JHL:acm  
Docket No. 50-339  
License No. NPF-7

Gentlemen:

AMENDMENT TO OPERATING LICENSE NPF-7  
NORTH ANNA POWER STATION UNIT NO. 2  
PROPOSED OPERATING LICENSE AMENDMENT

Pursuant to 10 CFR 50.90, the Virginia Electric and Power Company requests an amendment to Operating License NPF-7 for North Anna Power Station, Unit No. 2. The proposed changes to the Operating License are enclosed.

License Condition 2.C(21)(i)(i) currently states "Containment pressure from operation to three times the design pressure of the containment no later than the implementation schedule of NUREG-0737." The proposed change is to complete License Condition 2.C(21)(i)(i) no later than the second refueling outage beginning after March 31, 1982.

License Condition 2.C(21)(i)(iii) currently states, "Containment atmosphere hydrogen concentration from 0 to 10 volume percent shall be installed at the first outage of sufficient duration but no later than July 1, 1982, and the hydrogen sampling system to be used in the interim shall remain in effect until July 1, 1982." The proposed change is to complete License Condition 2.C(21)(i)(iii) no later than January 1, 1983.

License Condition 2.C(21)(i)(iv) currently states, "Containment radiation up to 10<sup>7</sup> R/hr. at the first outage of sufficient duration but no later than July 1, 1982." The proposed change is to complete License Condition 2.C(21)(i)(iv) no later than the second refueling outage beginning after March 31, 1982.

License Condition 2.C(21)(i)(v) currently states, "Noble gas effluent from each potential release point from normal concentrations to 10<sup>5</sup> uCi/cc (Xe-133) shall be implemented at the first outage of sufficient duration but no later than July 1, 1982." "VEPCO shall also provide capability for continuous sampling and for onsite analysis of the radioiodine and particulate effluent samples at the first outage of sufficient duration but no later than July 1, 1982." The proposed change is to complete License Condition 2.C(21)(i)(v) no later than January 1, 1983.

The proposed amendment is provided in Attachment 1. A discussion of the proposed changes is provided in Attachment 2.

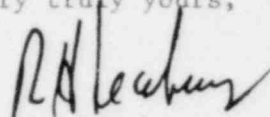
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\$4000.00

VIRGINIA ELECTRIC AND POWER COMPANY TO Harold R. Denton

This request has been reviewed and approved by the Station Nuclear Safety and Operating Committee and the Safety Evaluation and Control staff. It has been determined that this request does not involve an unreviewed safety question as defined in 10 CFR 50.59.

We have evaluated this request in accordance with the criteria in 10 CFR 170.22. Since this request involves a safety issue which the Staff should be able to determine does not pose a significant hazard consideration for Unit 2, a Class III license amendment fee is required for Unit 2. Accordingly, a voucher check in the amount of \$4000.00 is enclosed in payment of the required fees.

Very truly yours,



R. H. Leasburg

Attachments

1. Proposed Operating License Amendment
2. Discussion of Proposed Operating License Amendment
3. Voucher Check No. 29165 for \$4000.00

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

COMMONWEALTH OF VIRGINIA )  
 )  
CITY OF RICHMOND )

The foregoing document was acknowledged before me, in and for the City and Commonwealth aforesaid, today by R. H. Leasburg, who is Vice President-Nuclear Operations, of the Virginia Electric and Power Company. He is duly authorized to execute and file the foregoing document in behalf of that Company, and the statements in the document are true to the best of his knowledge and belief.

Acknowledged before me this 14<sup>th</sup> day of June, 19 82.

My Commission expires: 2-26, 19 85.

Ann C. Mose  
Notary Public

(SEAL)

ATTACHMENT 1

PROPOSED OPERATING LICENSE AMENDMENT

- (i) Containment pressure from 0 psia to three times the design pressure of the containment no later than the second refueling outage beginning after March 31, 1982;
- (ii) Containment water level from (1) the bottom to the top of the containment sump, and (2) the bottom of the containment to a level equivalent to 600,000 gallons of water no later than the implementation schedule of NUREG-0737.
- (iii) Containment atmosphere hydrogen concentration from 0 to 10 volume percent shall be installed no later than January 1, 1983, and the hydrogen sampling system to be used in the interim shall remain in effect until January 1, 1983;
- (iv) Containment radiation up to  $10^7$  R/hr. no later than the second refueling outage beginning after March 31, 1982.
- (v) Noble gas effluent from each potential release point from normal concentrations to  $10^5$  uCi/cc (Xe-133) no later than January 1, 1983.

VEPCO shall also provide capability for continuous sampling and for onsite analysis of the radioiodine and particulate effluent samples no later than January 1, 1983.

(j) Inadequate Core Cooling Instruments (Section 22.3 Item II.F.2)

VEPCO shall install and demonstrate the operability of additional instruments or controls needed to supplement installed equipment in order to provide unambiguous, easy-to-interpret indication of inadequate core cooling at the first outage of sufficient duration but no later than July 1, 1982.

- D. An exemption from certain requirements of Appendix J to 10 CFR Part 50 is described in the Office of Nuclear Reactor Regulation's Safety Evaluation Report, Supplement No. 10. This exemption is authorized by law and will not endanger life or property or the common defense and security and is otherwise in the public interest. The exemption is, therefore, hereby granted. The granting of the exemption was authorized with the issuance of the License for Fuel-Loading and Low-Power Testing, dated April 11, 1980. The facility will operate, to the extent authorized herein, in conformity with the application, as amended, to provisions of the Act, and the regulations of the Commission.

ATTACHMENT 2

DISCUSSION OF PROPOSED OPERATING LICENSE AMENDMENT

## DISCUSSION OF PROPOSED OPERATING LICENSE AMENDMENT

Currently License Condition 2.C(21)(i)(i) states, "Containment pressure from 0 psia to three times the design pressure of the containment no later than the implementation schedule of NUREG-0737."

The proposed amendment will require containment pressure from 0 psia to three times design pressure of the containment no later than the second refueling outage beginning after March 31, 1982.

The Containment Pressure Monitors have been installed and tested and are currently operational. The Containment Pressure Monitoring System is utilizing transmitters which have not been environmentally qualified. The best available transmitters are being used until qualified transmitters are available. It is anticipated that the existing transmitters will be qualified once testing is complete. If not, qualified transmitters will be provided in accordance with our response to I&E Bulletin 79-01B on a schedule consistent with the Proposed Rule on Environmental Qualification.

Currently, License Condition 2.C(21)(i)(iii) states, "Containment atmosphere hydrogen concentration from 0 to 10 volume percent shall be installed at the first outage of sufficient duration but no later than July 1, 1982, and the hydrogen sampling system to be used in the interim shall remain in effect until July 1, 1982."

The proposed amendment will require the containment atmosphere hydrogen concentration from 0 to 10 volume percent shall be installed no later than January 1, 1983, and the hydrogen sampling system to be used in the interim shall remain in effect until January 1, 1983.

The new Containment Hydrogen Monitors are installed and tested but are not connected to the sample supply and return lines since these lines are still under construction.

The sample and return lines for the Containment Hydrogen Monitors are shared with the Containment Atmosphere Sample System. The reason for the schedule extension is due to material delivery problems experienced earlier for the sample line valves and the recent problem of procurement and installation of the sample supply line Category I heat tracing system. In the interim, the existing hydrogen analyzers installed in the plant will remain operational until the new Hydrogen Monitoring System is operable.

Currently, License Condition 2.C(21)(i)(iv) states, "Containment radiation up to 10<sup>7</sup> R/hr. at the first outage of sufficient duration but no later than July 1, 1982".

The proposed amendment will require the containment radiation up to 10<sup>7</sup> R/hr. no later than the second refueling outage.

The Containment High Range Radiation Monitoring System will be installed and tested by July 1, 1982. This system will not be considered operable as of July 1, 1982 since the final in-situ calibration will not have been performed. The vendor of this system (Victoreen) does not have equipment, procedures, or sources acceptable to perform this calibration. Victoreen is expediting the development and procurement of a calibration system.



Veeco has not received a commitment from Victoreen as to when calibration services will be available. Our commitment is to perform the in-situ calibration during the first scheduled outage after availability of a calibration system. We anticipate this availability during Cycle 2 operation.

The containment electrical terminations for the Containment High Range Radiation Monitoring System have been made using interim termination procedures. This is because environmentally qualified terminations are not available. Qualified terminations will be provided in accordance with the Proposed Rule on Environmental Qualifications which requires completion no later than the second refueling outage beginning after March 31, 1982.

Currently, License Condition 2.C(21)(i)(v) states, "Noble gas effluent from each potential release point from normal concentrations to  $10^5$  uCi/cc (X-133) shall be implemented at the first outage of sufficient duration but no later than July 1, 1982. VEPCO shall also provide capability for continuous sampling and for onsite analysis of the radioiodine and particulate effluent samples at the first outage of sufficient duration but no later than July 1, 1982."

The proposed amendment will require noble gas effluent from each potential release point from normal concentrations to  $10^5$  uCi/cc (X-133) shall be implemented no later than January 1, 1983.

The Main Steam Effluent Monitoring System is installed and operational. The Process and Vent Effluent Monitor and the Steam Driven Auxiliary Feedwater Exhaust Effluent Monitor Systems are being installed. In addition to startup testing of these systems, the Steam Driven Auxiliary Feedwater Exhaust Effluent Monitor System requires an in-situ calibration. The calibration is scheduled for Summer, 1982. Of primary concern is an item which was recently identified which pertains to the effluent monitor systems. In order to meet the accuracy requirements, it is necessary to heat trace the vent stack sample lines. Installation of heat tracing was planned but it was not considered a requirement until the impact on the system accuracy was identified. It is anticipated that all effluent monitoring equipment installation will be complete by July 1, 1982 except for the Vent Stack heat tracing system. In order to provide the necessary time to procure and install the vent stack sample line heat tracing system, our commitment is to have all effluent monitoring systems operational by January 1, 1983. In the interim, the Increased Range Radiation Monitors, installed in response to the short term TMI requirements, will be used until the effluent monitors are operational.