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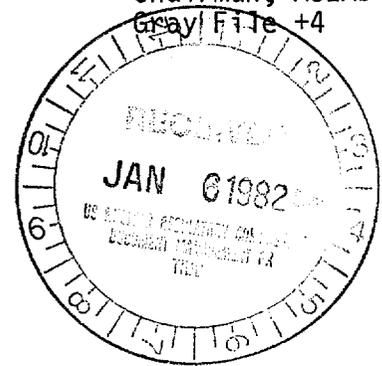
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Docket No. 50-339

Mr. R. H. Leasburg
 Vice President - Nuclear Operations
 Virginia Electric and Power Company
 Post Office Box 26666
 Richmond, Virginia 23261



Dear Mr. Leasburg:

The Commission has issued Amendment No. 14 to Facility Operating License NPF-7 for the North Anna Power Station, Unit No. 2 (NA-2) as requested in your letter dated December 18, 1981 and in our subsequent discussions with you regarding this matter. Amendment No. 14 is effective as of the date of issuance.

The amendment revises the implementation dates from January 1, 1982 to July 1, 1982 for NUREG Action Items II.B.3, II.F.1, Attachments 1, 2, 3 and 6, and II.F.2 as specified in the NA-2 License Conditions 2.C.(21)e, 2.C.(21)i, subsections (iii), (iv), and (v), and 2.C.(21)(j), respectively.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

Original signed by:

CP
1

Leon B. Engle, Project Manager
 Operating Reactors Branch #3
 Division of Licensing

Enclosures:

- Amendment No. 14 to NPF-7
- Safety Evaluation
- Notice of Issuance

cc: w/enclosures
 See next page

Handwritten notes:
 LBE Engle
 ORB#3:DL
 RAClark
 12/30/81
 no legal objection to and on notes

OFFICE	ORB#3:DL	ORB#3:DL	ORB#3:DL	AD:OR:DL	OELD	ORAB	DEisenhut
SURNAME	PMKreutzer	LEngle	RAClark	TMovak	P Swanson		DEisenhut
DATE	12/22/81	12/23/81	12/23/81	12/23/81	12/29/81	12/27/81	12/31/81

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WASHINGTON, D.C. 20555

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PMKreutzer

Docket No. 50-339

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: VIRGINIA ELECTRIC AND POWER COMPANY, North Anna Power Station,
Unit No. 2

Two signed originals of the Federal Register Notice identified below are enclosed for your transmittal to the Office of the Federal Register for publication. Additional conformed copies (12) of the Notice are enclosed for your use.

- Notice of Receipt of Application for Construction Permit(s) and Operating License(s).
- Notice of Receipt of Partial Application for Construction Permit(s) and Facility License(s): Time for Submission of Views on Antitrust Matters.
- Notice of Availability of Applicant's Environmental Report.
- Notice of Proposed Issuance of Amendment to Facility Operating License.
- Notice of Receipt of Application for Facility License(s); Notice of Availability of Applicant's Environmental Report; and Notice of Consideration of Issuance of Facility License(s) and Notice of Opportunity for Hearing.
- Notice of Availability of NRC Draft/Final Environmental Statement.
- Notice of Limited Work Authorization.
- Notice of Availability of Safety Evaluation Report.
- Notice of Issuance of Construction Permit(s).
- Notice of Issuance of Facility Operating License(s) or Amendment(s).
- Other: Amendment No. 14.
Referenced documents have been provided PDR.

Division of Licensing
Office of Nuclear Reactor Regulation

Enclosure:
As Stated

OFFICE →	ORB#3:DL					
SURNAME →	PMKreutzer/pr					
DATE →	12/13/18					



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

December 31, 1981

Docket No. 50-339

Mr. R. H. Leasburg
Vice President - Nuclear Operations
Virginia Electric and Power Company
Post Office Box 26666
Richmond, Virginia 23261

Dear Mr. Leasburg:

The Commission has issued Amendment No. 14 to Facility Operating License NPF-7 for the North Anna Power Station, Unit No. 2 (NA-2) as requested in your letter dated December 18, 1981 and in our subsequent discussions with you regarding this matter. Amendment No. 14 is effective as of the date of issuance.

The amendment revises the implementation dates from January 1, 1982 to July 1, 1982 for NUREG Action Items II.B.3, II.F.1, Attachments 1, 2, 3 and 6, and II.F.2 as specified in the NA-2 License Conditions 2.C.(21)e, 2.C.(21)i subsections (iii), (iv), and (v), and 2.C.(21)(j), respectively.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

A handwritten signature in cursive script that reads "Leon B. Engle".

Leon B. Engle, Project Manager
Operating Reactors Branch #3
Division of Licensing

Enclosures:

1. Amendment No. 14 to NPF-7
2. Safety Evaluation
3. Notice of Issuance

cc: w/enclosures
See next page

Virginia Electric and Power Company

cc:

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Mrs. June Allen
North Anna Environmental Coalition
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U.S. Environmental Protection Agency
Region III Office
ATTN: Regional Radiation Representative
Curtis Building
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Philadelphia, Pennsylvania 19106

Mr. Paul W. Purdom
Environmental Studies Institute
Drexel University
32nd and Chestnut Streets
Philadelphia, Pennsylvania 19104

Atomic Safety and Licensing
Appeal Board Panel
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NO. 50-339

NORTH ANNA POWER STATION, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 14
License No. NPF-7

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Virginia Electric and Power Company (the licensee) dated December 18, 1981, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Paragraph 2.C.(21)(e) of Facility Operating License NPF-7 is hereby amended to read as follows:

(e) Post-Accident Sampling (Section 22.3 Item II.B.3)

VEPCO shall complete corrective actions needed to provide the capability to promptly obtain and perform radioisotopic and chemical analysis of reactor coolant and containment atmosphere samples under degraded core conditions without excessive exposure at the first outage of sufficient duration but no later than July 1, 1982.

3. Also, Paragraph 2.C.(21)(i), subsections (iii), (iv), and (v) are hereby amended to read:

(iii) 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.

(iv) Containment radiation up to 10^7 R/hr. at the first outage of sufficient duration but no later than July 1, 1982; and

(v) Noble gas effluent from each potential release point from normal concentrations to 10^5 μ Ci/cc (Xe-133) shall be implemented at the first outage of sufficient duration but no later than July 1, 1982.

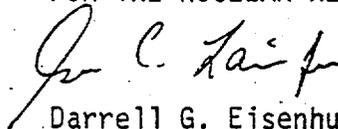
VEPCO shall also provide capability for continuous sampling and for onsite analysis of the radioiodine and particulate effluent samples at the first outage of sufficient duration but no later than July 1, 1982.

4. Finally, Paragraph 2.C.(21)(j) is hereby amended to read as follows:

(j) 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.

5. This license amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Darrell G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation

Date of Issuance: December 31, 1981



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 14 TO FACILITY OPERATING LICENSE NO. NPF-7
VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION, UNIT NO. 2
DOCKET NO. 50-339

Introduction:

By letter dated December 18, 1981, the Virginia Electric and Power Company (the licensee) requested a change to Facility Operating License NPF-7 for the North Anna Power Station, Unit No. 2 (NA-2). The requested change would revise certain implementation dates for post-TMI requirements of NUREG-0737 as specified in License Condition 2.C.(21) to License NPF-7. Specifically, the requested change would revise certain scheduled implementation dates from January 1, 1982 to July 1, 1982.

The licensee's requested change for TMI implementation dates affects License Condition 2.C.(21)(j) (See Operating License NPF-7 (full-power) issued August 20, 1980) regarding TMI Action Plan Item II.F.2, "Inadequate Core Cooling Instruments." Also affected are License Conditions 2.C.(21)(e) and 2.C.(21)(i) (See Amendment No. 2 to Operating License NPF-7) regarding TMI Action Plan Item II.B.3, "Post Accident Sampling", and II.F.1 "Additional Accident Monitoring Instrumentation", respectively. In addition, the requested schedule extension to License Condition 2.C.(21)(i) affects only those items specified in sub-parts (iii), (iv) and (v).

Background:

By letters in the 2nd half of 1979 and throughout 1980, the licensee submitted commitments and documentation of actions taken at NA-1&2 to implement the Lessons Learned Requirements of NUREG-0578. The licensee consolidated and revised as necessary the information for those requirements that were incorporated in the action plans developed for NUREG-0660 and as subsequently reissued in the Clarification of TMI Action Plan Requirements of NUREG-0737.

By letter dated December 15, 1980, the licensee submitted a complete response to the NUREG-0737 Post-TMI Requirements. The licensee's submittal, by separate indexed volume, was a compilation of previously submitted information referenced for items to NUREG-0578 and NUREG-0660. The response, in total, presented the licensee's current status and efforts for implementing TMI Action Plan Requirements.

To facilitate review, the individual indexed response sections included the NRC position and clarifications as well as the licensee's detailed responses. Each response section provided a status of the licensee's engineering efforts, construction, and a design description for each clarification item of NUREG-0737. Also provided in the licensee's response was an implementation schedule and status report on the scheduler requirements of NUREG-0737. Finally, the licensee's response was so formatted that revisions could easily be made which would provide an updated, detailed and total response to all NUREG-0737 Action Plan Items for NA-1&2.

By NRC letter dated November 4, 1981, the licensee was commended for its NUREG-0737 submittal entitled "Response to NUREG-0737 Post TMI-Requirements." The NRC letter stated that the quality of the licensee's submittal such as format and completeness had proved to be most useful in the NRC staff review and monitoring of TMI Action Plan Items for NA-1&2 (Also, Surry 1&2).

By letters dated June 18 and December 9, 1981, the licensee submitted, respectively, Revisions 1&2 to its response to NUREG-0737. Revision 2 provided the details of the problems encountered by the licensee in meeting the January 1, 1982 implementation date for Items II.B.3, II.F.1 and II.F.2. Also, as noted above, the licensee requested a scheduler change in implementation date from January 1, 1982 to July 1, 1982 regarding Items II.B.3, II.F.1 and II.F.2 as specified in the NA-2 License Condition 2.C.(21). The basis for the requested scheduler change is discussed below.

Discussion:

NPF-7 License Condition 2.C.(21)(e), NUREG-0737 Item II.B.3, Post Accident Sampling System

The Sentry Equipment Company Chemical Analysis Panels and Chemical Analysis Monitor Panels were originally scheduled for delivery in December, 1980. Vendor delays have resulted in a delivery in late October 1981 for NA-2. Because of this late delivery, the installation of mechanical and electrical tie-ins, as well as system testing, must be accomplished in an extremely short time frame. However, the licensee states that the Reactor Coolant Sampling System (RCSS) installation will be completed by January 1, 1982, except for system testing which will be on an expedited basis. The licensee states that the RCSS will be fully operable by July 1, 1982. In the interim, the Short-Term Sampling System will be utilized.

NPF-7 License Condition 2.C.(21)(i), Subparts (iii), (iv) and (v) NUREG Item II.F.1, Additional Accident Monitoring Instrumentation

Subpart (iii), Containment Hydrogen Monitor:

The hydrogen analyzers will be installed, calibrated, and operational by January 1, 1982. However, the sample and return lines to containment, which are part of the Hydrogen Monitor System, will not be installed by January 1, 1982, because a shutdown is required. All equipment for completing the installation of these lines is available on site and installation will be completed at the next refueling outage but not later than July 1, 1982. The existing redundant (nonqualified) hydrogen analyzers will remain operational in the interim period.

Subpart (iv), Containment High Range Radiation Monitors:

The vendor (Victoreen) supplied control room panels which house the recorders, and internal wiring for the high range radiation system which failed a seismic test to the extent that the panels required a complete redesign. The system will be completed on an expedited basis after arrival of the panels. The panels are now scheduled to be shipped by mid-December, 1981, but implementation of all required systems cannot be met by January 1, 1982.

Subpart (v), Sampling and Analysis of Plant Effluents:

In order to comply with the January 1, 1982 implementation date, an order was placed with Kaman Sciences Corporation on November 14, 1980 which required delivery by July 20, 1981. The delivery date for the monitor units was scheduled for August 21, 1981 for isokinetic nozzles and hardware with the monitor skids scheduled for September 30, 1981.

When undergoing final system testing, a circuit board failure required rework of the microprocessor units which resulted in shipping delays to October 15, 1981. This delay on the delivery of the Kaman system has severely impacted the current construction schedule and will result in installation beyond January 1, 1982.

Also, the redesign and shipping schedule, as noted above, for the Victoreen supplied control room panels has impacted the January 1, 1982 implementation date.

NPF-7 License Condition 2.C.(21)(j), NUREG-0737 Item II.F.2, Inadequate Core Cooling Instruments

NUREG-0737 required that the documentation associated with reactor vessel level systems be provided by January 1, 1981. The design information and supporting analyses of the reactor vessel level system has been submitted by the licensee for NA-2. However, the January 1, 1982 implementation date cannot be met for the following reasons.

Originally, the refueling outage (Cycle 1 to Cycle 2) for NA-2 had been scheduled for the 4th quarter of 1981 which would have allowed the licensee to remove the NA-2 reactor vessel head which is necessary to fully implement the system design for inadequate core cooling instruments. Because of the forced outages which resulted from the mid-1981 NA-2 transformer problems, the Cycle 1-2 refueling outage was revised to commence March 5, 1982. Based on this revised scheduled outage, the licensee states that the reactor vessel vent system will become functional by July 1, 1982.

Evaluation:

Based on the above, we have determined that: (1) the licensee has shown acceptable intent to meet the requirements of NUREG-0737 regarding engineering design, construction, and implementation, (2) the licensee could not anticipate the late equipment deliveries which developed after original procurement dates, (3) the licensee could not foresee the NA-2 outage in the summer of 1981, and (4) the licensee's requested extension in time (six months) for implementation of the affected NUREG-0737 Action Items is reasonable and not excessive.

Therefore, we find the licensee's request to extend the implementation dates from January 1, 1982 to July 1, 1982 for Action Items II.B.3, II.F.1 Attachments 1, 2, 3 and 6, and II.F.2 to be acceptable, and License Conditions 2.C.(21)(e), 2.C.(21)(i), (iii), (iv) and (v) and 2.C.(21)(j), respectively, are hereby revised to reflect a July 1, 1982 implementation date.

Environmental Consideration

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: December 31, 1981

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-339VIRGINIA ELECTRIC AND POWER COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 14 to Facility Operating License No. NPF-7 issued to the Virginia Electric and Power Company (the licensee) for operation of the North Anna Power Station, Unit No. 2 (the facility) located in Louisa County, Virginia. The amendment is effective as of its date of issuance.

The amendment revises the time required for the licensee to complete the implementation dates for NUREG-0737 Long-Term Action Items II.B.3, II.F.1, Attachments 1, 2, 3, and 6, and II.F.2.1. The time required for implementing the above Action Items has been extended from January 1, 1982 to July 1, 1982.

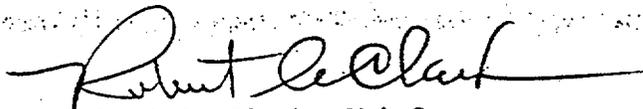
The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since this amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated December 18, 1981; (2) Amendment No. 14 to Facility Operating License No. NPF-7; and (3) the Commission's related Safety Evaluation. These items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D. C. 20555 and at the Board of Supervisor's Office, Louisa County Courthouse, Louisa, Virginia 23093 and at the Alderman Library, Manuscripts Department, University of Virginia, Charlottesville, Virginia 22901. A copy of items (2) and (3) may be obtained upon request to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland this 31st day of December, 1981.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing