

March 13, 2000

Template - NRR-058

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Senior Vice President - Nuclear
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5000 Dominion Blvd.
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SUBJECT: NORTH ANNA POWER STATION, UNITS 1 AND 2 - ISSUANCE OF AMENDMENTS REGARDING TECHNICAL SPECIFICATIONS RELOCATION FOR WASTE GAS CHARCOAL FILTER SYSTEM TO TECHNICAL REQUIREMENTS MANUAL (TAC NOS. MA7013 AND MA7014)

Dear Mr. O'Hanlon:

The Commission has issued the enclosed Amendment Nos. 222 and 203 to Facility Operating License Nos. NPF-4 and NPF-7 for the North Anna Power Station (NAPS), Unit Nos. 1 and 2. The amendments consist of changes to the Technical Specifications (TS) in response to your letter dated October 28, 1999, as supplemented December 21, 1999.

The amendments remove the operability and surveillance requirements of Technical Specifications (TS) Section 3/4.6.4.3, "Waste Gas Charcoal Filter System," from the TS and relocate them to the Technical Requirements Manual.

A copy of the Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's biweekly Federal Register notice. By this letter, we are closing TAC Nos. MA7013 and MA7014.

Sincerely,

/RA/

Gordon E. Edison, Senior Project Manager, Section 1
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-338 and 50-339

Enclosures:

1. Amendment No. 222 to NPF-4
2. Amendment No. 203 to NPF-7
3. Safety Evaluation

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 13, 2000

Mr. J. P. O'Hanlon
Senior Vice President - Nuclear
Virginia Electric and Power Company
5000 Dominion Blvd.
Glen Allen, Virginia 23060

SUBJECT: NORTH ANNA POWER STATION, UNITS 1 AND 2 - ISSUANCE OF
AMENDMENTS REGARDING TECHNICAL SPECIFICATIONS RELOCATION
FOR WASTE GAS CHARCOAL FILTER SYSTEM TO TECHNICAL
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Sincerely,

A handwritten signature in cursive script that reads "Gordon E. Edison".

Gordon E. Edison, Senior Project Manager, Section 1
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-338 and 50-339

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3. Safety Evaluation

cc w/encls: See next page

Mr. J. P. O'Hanlon
Virginia Electric and Power Company

North Anna Power Station
Units 1 and 2

cc:

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Site Vice President
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North Anna Power Station
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1024 Haley Drive
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

VIRGINIA ELECTRIC AND POWER COMPANY

OLD DOMINION ELECTRIC COOPERATIVE

DOCKET NO. 50-338

NORTH ANNA POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 222
License No. NPF-4

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Virginia Electric and Power Company et al., (the licensee) dated October 28, 1999, as supplemented December 21, 1999, 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. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.D.(2) of Facility Operating License No. NPF-4 is hereby amended to read as follows:

- (2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 222, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance and shall be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION



Richard L. Emch Jr., Chief, Section 1
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachments:
Changes to the Technical
Specifications

Date of Issuance: March 13, 2000

ATTACHMENT TO LICENSE AMENDMENT NO. 222

TO FACILITY OPERATING LICENSE NO. NPF-4

DOCKET NO. 50-338

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages as indicated. The revised pages are identified by amendment number and contain vertical lines indicating the areas of change.

Remove Pages

VII (index)

3/4 6-35

3/4 6-36

Insert Pages

VII (index)

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LIMITING CONDITIONS FOR OPERATION AND SURVEILLANCE REQUIREMENTS

<u>SECTION</u>	<u>PAGE</u>
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	Containment Air Locks 3/4 6-4
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3/4.6.2	DEPRESSURIZATION AND COOLING SYSTEMS
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	Containment Recirculation Spray System 3/4 6-12
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3/4.6.3	CONTAINMENT ISOLATION VALVES 3/4 6-15
3/4.6.4	COMBUSTIBLE GAS CONTROL
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3/4.6.5	SUBATMOSPHERIC PRESSURE CONTROL SYSTEM
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

VIRGINIA ELECTRIC AND POWER COMPANY

OLD DOMINION ELECTRIC COOPERATIVE

DOCKET NO. 50-339

NORTH ANNA POWER STATION, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 203
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 et al., (the licensee) dated October 28, 1999, as supplemented December 21, 1999, 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. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-7 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 203 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance and shall be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION

Richard L. Emch, Jr.

Richard L. Emch Jr., Chief, Section 1
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachments:
Changes to the Technical
Specifications

Date of Issuance: March 13, 2000

ATTACHMENT TO LICENSE AMENDMENT NO. 203

TO FACILITY OPERATING LICENSE NO. NPF-7

DOCKET NO. 50-339

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages as indicated. The revised pages are identified by amendment number and contain vertical lines indicating the areas of change.

Remove Pages

VI (index)

3/4 6-34

3/4 6-35

Insert Pages

VI (index)

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NOS. 222 AND 203

TO FACILITY OPERATING LICENSE NOS. NPF-4 AND NPF-7

VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION, UNITS NO. 1 AND NO. 2

DOCKET NOS. 50-338 AND 50-339

1.0 INTRODUCTION

By letter dated October 28, 1999, the Virginia Electric and Power Company requested amendments, in the form of changes to the Technical Specifications (TS) for North Anna Power Station, Units 1 and 2. By letter dated December 21, 1999, the licensee submitted a supplement to the request after a telephone conference call with the NRC staff to discuss the proposed changes. The proposed changes would remove the operability and surveillance requirements of Technical Specifications Section 3/4.6.4.3, "Waste Gas Charcoal Filter System" from the Technical Specifications and relocate them to the Technical Requirements Manual (TRM).

2.0 EVALUATION

The North Anna gaseous waste disposal system is common to both units and is sized to treat the radioactive gases released during simultaneous operation of both units. Fission product gases and uncondensed radioactive vapors are held for decay, filtered, and diluted with ventilation air until they may be safely released. The gaseous waste disposal system is designed to provide adequate storage for radioactive decay of the waste gases and, in addition, to provide for holdup of these gases when adverse meteorological conditions do not favor release of waste gas to the environment.

The Waste Gas Charcoal Filter System is used for control of release of radionuclides to the environment during normal plant operations and is not credited in the accident analysis for accident mitigation of any plant accident, including a waste gas decay tank rupture. The licensee requests the relocation of the relevant TS to the TRM.

To support relocation of this TS to the TRM, the staff requested that the licensee provide an evaluation to show that this TS does not meet any of the 10 CFR 50.36(c)(2)(ii) criteria for inclusion in the TS.

By letter dated December 21, 1999, the licensee submitted an evaluation of the Waste Gas Charcoal Filter System against the following four 10 CFR 50.36(c)(2)(ii) criteria for inclusion of system operating controls in the TS.

(A) *Criterion 1.* Installed instrumentation that is used to detect, and indicate in the control room, a significant abnormal degradation of the reactor coolant pressure boundary.

(B) *Criterion 2.* A process variable, design feature, or operating restriction that is an initial condition of a design basis accident or transient analysis that either assumes the failure of or presents a challenge to the integrity of a fission product barrier.

(C) *Criterion 3.* A structure, system, or component that is part of the primary success path and which functions or actuates to mitigate a design basis accident or transient that either assumes the failure of or presents a challenge to the integrity of a fission product barrier.

(D) *Criterion 4.* A structure, system, or component which operating experience or probabilistic risk assessment has shown to be significant to public health and safety.

The Waste Gas Charcoal Filter System is not installed instrumentation that is used to detect, and indicate in the control room, a significant abnormal degradation of the reactor coolant pressure boundary. Therefore, the Waste Gas Charcoal Filter System does not meet Criterion 1.

The Waste Gas Charcoal Filter System and its operating controls are not associated with a process variable that is an initial condition of a design basis accident or transient analysis that either assumes the failure of or presents a challenge to the integrity of a fission product barrier. Therefore, the Waste Gas Charcoal Filter System does not meet Criterion 2.

The Waste Gas Charcoal Filter System is not a structure, system, or component that is part of the primary success path and which functions or actuates to mitigate a design basis accident or transient that either assumes the failure of or presents a challenge to the integrity of a fission product barrier. Therefore, the Waste Gas Charcoal Filter System does not meet Criterion 3.

The Waste Gas Charcoal Filter System is not a structure, system, or component which operating experience or probabilistic risk assessment has shown to be significant to public health and safety. The Waste Gas Charcoal Filter System is not important in any of the scenarios modeled in the North Anna Power Station site-specific probabilistic risk assessments. Therefore, the Waste Gas Charcoal Filter System does not meet Criterion 4.

Since the Waste Gas Charcoal Filter System does not meet the criteria of 10 CFR 50.36(c)(2)(ii) for inclusion in the TS, the staff concludes that it is acceptable to relocate the system's limiting condition for operation and associated applicability, actions, and surveillance from the TS to the TRM.

3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Virginia State official was notified of the proposed issuance of the amendments. The State official had no comment.

4.0 ENVIRONMENTAL CONSIDERATION

These amendments change a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluent that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that these amendments involve no significant hazards consideration and there has been no public comment on such finding (65 FR 6412). Accordingly, these amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendments.

5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: Angela T. Chu

Date: March 13, 2000