



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

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. 60  
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 (the licensee) dated December 30, 1983 as supplemented June 4, 1984 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.

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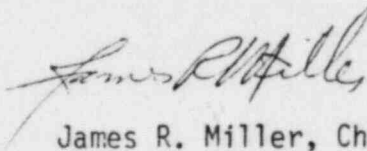
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-4 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 60, 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 the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



James R. Miller, Chief  
Operating Reactors Branch #3  
Division of Licensing

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: December 6, 1984

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO.60 TO FACILITY OPERATING LICENSE NO. NPF-4

DOCKET NO. 50-338

Replace the following page of the Appendix "A" Technical Specifications with the enclosed page as indicated. The revised page is identified by amendment number and contains vertical lines indicating the area of change. The corresponding overleaf page is also provided to maintain document completeness.

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NORTH ANNA-UNIT 1

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Amendment No. 60

TABLE 3.3-1 (Continued)  
 REACTOR TRIP SYSTEM INTERLOCKS

| DESIGNATION | CONDITION   | SETPOINT                                       | ALLOWABLE VALUES      | FUNCTION  |
|-------------|---|--|-----------------------|---|
| P-6         | 1 of 2 Intermediate range above setpoint (increasing power level) | $1 \times 10^{-10}$                            | $< 3 \times 10^{-10}$ | Allows manual block of source range reactor trip  |
|             | 2 of 2 Intermediate range below setpoint (decreasing power level) | $5 \times 10^{-11}$                            | $> 3 \times 10^{-11}$ | Defeats the block of source range reactor trip  |
| P-10        | 2 of 4 Power range above setpoint (increasing power level)        | 10%  | <11%                  | Allows manual block of power range (low setpoint) and intermediate range reactor trips and intermediate range rod stop. Blocks source range reactor trip.   |
|             | 3 of 4 Power range below setpoint (decreasing power level)        | 8%   | >7%                   | Defeats the block of power range (low setpoint) and intermediate range reactor trips and intermediate range rod stop.   |
| P-7         | 2 of 4 Power range above setpoint                                 | 10%  | <11%                  | Input to P-7.<br>Allows reactor trip on: Low flow or reactor coolant pump breakers open in more than one loop, Undervoltage (RCP busses) Underfrequency (RCP busses), Turbine Trip, Pressurizer low pressure, and Pressurizer high level. |
|             | or<br>1 of 2 Turbine Impulse chamber pressure above setpoint      | Pressure equivalent to 10% rated turbine power | <11%                  |   |

(Power level increasing)

TABLE 3.3-1 (Continued)

- ACTION 9 - With a channel associated with an operating loop inoperable, restore the inoperable channel to OPERABLE status within 2 hours or be in HOT STANDBY within the next 6 hours; however, one channel associated with an operating loop may be bypassed for up to 2 hours for surveillance testing per Specification 4.3.1.1.1.
- ACTION 10 - With one channel inoperable, restore the inoperable channel to OPERABLE status within 2 hours or reduce THERMAL POWER to below P-8 within the next 2 hours. Operation below P-8 may continue pursuant to ACTION 11.
- ACTION 11 - With less than the Minimum Number of Channels OPERABLE, operation may continue provided the inoperable channel is placed in the tripped condition within 1 hour.
- ACTION 12 - With the number of channels OPERABLE one less than required by the Minimum Channels OPERABLE requirement, restore the inoperable channel to OPERABLE status within 48 hours or be in HOT STANDBY within the next 6 hours and/or open the reactor trip breakers.



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WASHINGTON, D. C. 20555

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. 44  
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 30, 1983 as supplemented June 4, 1984 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.

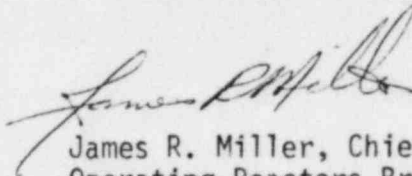
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-7 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 44 , 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 the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



James R. Miller, Chief  
Operating Reactors Branch #3  
Division of Licensing

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: December 6, 1984

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 44 TO FACILITY OPERATING LICENSE NO. NPF-7

DOCKET NO. 50-339

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TABLE 3.3-1 (Continued)

- ACTION 9 - With a channel associated with an operating loop inoperable, restore the inoperable channel to OPERABLE status within 2 hours or be in HOT STANDBY within the next 6 hours; however, one channel associated with an operating loop may be bypassed for up to 2 hours for surveillance testing per Specification 4.3.1.1.1.
- ACTION 10 - With one channel inoperable, restore the inoperable channel to OPERABLE status within 2 hours or reduce THERMAL POWER to below the P-8, (Block of Low Reactor Coolant Pump Flow and Reactor Coolant Pump Breaker Position) setpoint, within the next 2 hours. Operation below the P-8, (Block of Low Reactor Coolant Pump Flow and Reactor Coolant Pump Breaker Position) setpoint, may continue pursuant to ACTION 11.
- ACTION 11 - With less than the Minimum Number of Channels OPERABLE, operation may continue provided the inoperable channel is placed in the tripped condition within 1 hour.
- ACTION 12 - With the number of channels OPERABLE one less than required by the Minimum Channels OPERABLE requirement, restore the inoperable channel to OPERABLE status within 48 hours or be in HOT STANDBY within the next 6 hours and/or open the reactor trip breakers.

TABLE 3.3-1 (Continued)  
REACTOR TRIP SYSTEM INTERLOCKS

| <u>DESIGNATION</u> | <u>CONDITION</u>  | <u>SETPOINT</u>                                | <u>ALLOWABLE VALUES</u> | <u>FUNCTION</u>   |
|--------------------|---|--|-------------------------|---|
| P-6                | 1 of 2 Intermediate range above setpoint (increasing power level) | $1 \times 10^{-10}$                            | $< 3 \times 10^{-10}$   | Allows manual block of source range reactor trip  |
|                    | 2 of 2 Intermediate range below setpoint (decreasing power level) | $5 \times 10^{-11}$                            | $> 3 \times 10^{-11}$   | Defeats the block of source range reactor trip  |
| P-10               | 2 of 4 Power range above setpoint (increasing power level)        | 10%  | <11%                    | Allows manual block of power range (low setpoint) and intermediate range reactor trips and intermediate range rod stop. Blocks source range reactor trip.   |
|                    | 3 of 4 Power range below setpoint (decreasing power level)        | 8%   | >7%                     | Defeats the block of power range (low setpoint) and intermediate range reactor trips and intermediate range rod stop.   |
| P-7                | 2 of 4 Power range above setpoint                                 | 10%  | <11%                    | Input to P-7.<br>Allows reactor trip on: Low flow or reactor coolant pump breakers open in more than one loop, Undervoltage (RCP busses) Underfrequency (RCP busses), Turbine Trip, Pressurizer low pressure, and Pressurizer high level. |
|                    | or<br>1 of 2 Turbine Impulse chamber pressure above setpoint      | Pressure equivalent to 10% rated turbine power | <11%                    |   |

(Power level increasing)