



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

VIRGINIA ELECTRIC AND POWER COMPANY
DOCKET NO. 50-338
NORTH ANNA POWER STATION, UNIT NO. 1
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 43
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 June 25, 1982, 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.

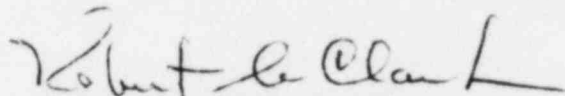
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.D.(2) of Facility Operating License No. NPF-4 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 43, 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



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

Attachment:
Changes to the Technical
Specifications

Date of Issuance: October 20, 1982

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 43 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 area of change. The corresponding overleaf pages are also provided to maintain document completeness.

Pages

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TABLE 3.6-1 (Cont.)

| <u>VALVE NUMBER</u> | <u>FUNCTION</u> | <u>ISOLATION TIME (SEC.)</u> |
|-------------------------|---|----------------------------------|
| 35. TV-LM100A | Reactor Containment Leakage Monitoring Lines to Open Pressure Taps | 60 |
| 36. TV-LM100B | Reactor Containment Leakage Monitoring Lines to Open Pressure Taps | 60 |
| 37. TV-LM100C | Reactor Containment Leakage Monitoring Lines to Open Pressure Taps | 60 |
| 38. TV-LM100D | Reactor Containment Leakage Monitoring Lines to Open Pressure Taps | 60 |
| 39. TV-LM100E | Reactor Containment Leakage Monitoring Lines to Open Pressure Taps | 60 |
| 40. TV-LM100F | Reactor Containment Leakage Monitoring Lines to Open Pressure Taps | 60 |
| 41. TV-LM100G | Reactor Containment Leakage Monitoring Lines to Open Pressure Taps | 60 |
| 42. TV-LM100H | Reactor Containment Leakage Monitoring Lines to Open Pressure Taps | 60 |
| 43. TV-SS101A | Pressurizer Vapor Space Sample | 60 |
| 44. TV-SS101B | Pressurizer Vapor Space Sample | 60 |
| 45. TV-SV102-1 | Condenser Air Ejector Vent | 60 |
| 46. TV-SV103 | Condenser Air Ejector Vent | 60 |
| 47. TV-CV150A | Containment Vacuum Pump Suction | 60 |
| 48. TV-CV150B | Containment Vacuum Pump Suction | 60 |
| 49. TV-CV150C | Containment Vacuum Pump Suction | 60 |

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TABLE 3.6-1 (Cont.)

| <u>VALVE NUMBER</u> | <u>FUNCTION</u> | <u>ISOLATION TIME (SEC.)</u> |
|---------------------|--|------------------------------|
| 50. TV-CV150D | Containment Vacuum Pump Suction | 60 |
| 51. TV-SS103A | Residual Heat Removal System Sample Lines | 60 |
| 52. TV-SS103B | Residual Heat Removal System Sample Lines | 60 |
| 53. TV-LM101A | Reactor Containment Leakage Monitoring Lines to Reference System | 60 |
| 54. TV-LM101B | Reactor Containment Leakage Monitoring Lines to Reference System | 60 |
| 55. TV-LM101C | Reactor Containment Leakage Monitoring Lines to Reference System | 60 |
| 56. TV-LM101D | Reactor Containment Leakage Monitoring Lines to Reference System | 60 |
| 57. TV-1859 | Safety Injection Test Line | 60 |
| 58. TV-1842 | Safety Injection Test Line | 60 |
| 59. TV-SS112A | Steam Generator Surface Sample | 60 |
| 60. TV-SS112B | Steam Generator Surface Sample | 60 |
| 61. TV-MS109# | Main Steam Drains to Condenser | 60 |
| 62. TV-MS110# | Main Steam to Blowdown | 60 |
| 63. TV-SV102-2 | Condenser Air Ejector Vent | 60 |
| 64. FCV-AS100A# | Condenser Air Ejector Steam Supply | 60 |
| 65. FCV-AS100B# | Condenser Air Ejector Steam Supply | 60 |
| 66. TV-DA103A | Post Accident Sample System Containment Return Line | 60 |
| 67. TV-DA103B | Post Accident Sample System Containment Return Line | 60 |

TABLE 3.6-1 (Cont.)

| <u>VALVE NUMBER</u> | <u>FUNCTION</u> | <u>ISOLATION TIME (SEC.)</u> |
|-------------------------|---|----------------------------------|
| B. PHASE "B" ISOLATION | | |
| 1. TV-CC103A | Component Cooling Water From RHR System and Excess Letdown Heat Exchanger | 60 |
| 2. TV-CC103B | Component Cooling Water From RHR System and Excess Letdown Heat Exchanger | 60 |
| 3. TV-CC101A | Reactor Coolant Pump Thermal Barrier Cooling Water Return | 60 |
| 4. TV-CC101B | Reactor Coolant Pump Thermal Barrier Cooling Water Return | 60 |
| 5. TV-CC100A | Component Cooling Water From Containment Air Recirculation Coils | 60 |
| 6. TV-CC100B | Component Cooling Water From Containment Air Recirculation Coils | 60 |
| 7. TV-CC100C | Component Cooling Water From Containment Air Recirculation Coils | 60 |
| 8. TV-CC105A | Component Cooling Water From Containment Air Recirculation Coils | 60 |
| 9. TV-CC105B | Component Cooling Water From Containment Air Recirculation Coils | 60 |
| 10. TV-CC105C | Component Cooling Water From Containment Air Recirculation Coils | 60 |
| 11. TV-CC104A | Reactor Coolant Pumps, Cooling Water In | 60 |
| 12. TV-CC104B | Reactor Coolant Pumps, Cooling Water In | 60 |
| 13. TV-CC104C | Reactor Coolant Pumps, Cooling Water In | 60 |

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TABLE 3.6-1 (Cont.)

| <u>VALVE NUMBER</u> | <u>FUNCTION</u> | <u>ISOLATION TIME (SEC.)</u> |
|-------------------------|---|----------------------------------|
| 14. TV-CC102A | Reactor Coolant Pumps, Bearing and Shroud, Cooling Water Out | 60 |
| 15. TV-CC102B | Reactor Coolant Pumps, Bearing and Shroud, Cooling Water Out | 60 |
| 16. TV-CC102C | Reactor Coolant Pumps, Bearing and Shroud, Cooling Water Out | 60 |
| 17. TV-CC102D | Reactor Coolant Pumps, Bearing and Shroud, Cooling Water Out | 60 |
| 18. TV-CC102E | Reactor Coolant Pumps, Cooling Water Out | 60 |
| 19. TV-CC102F | Reactor Coolant Pumps, Cooling Water Out | 60 |
| 20. TV-BD100A | Steam Generator Blowdown | 60 |
| 21. TV-BD100B | Steam Generator Blowdown | 60 |
| 22. TV-BD100C | Steam Generator Blowdown | 60 |
| 23. TV-BD100D | Steam Generator Blowdown | 60 |
| 24. TV-BD100E | Steam Generator Blowdown | 60 |
| 25. TV-BD100F | Steam Generator Blowdown | 60 |
| 26. TV-IA102B | Instrument Air to Reactor Containment | 60 |

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TABLE 3.6-1 (Cont.)

| <u>VALVE NUMBER</u> | <u>FUNCTION</u> | <u>ISOLATION TIME (SEC.)</u> |
|--|------------------|----------------------------------|
| C. CONTAINMENT PURGE AND EXHAUST (VENTILATION DUCTS) | | |
| 1. MOV-HV100A* | Purge Supply | NA |
| 2. MOV-HV100B* | Purge Supply | NA |
| 3. MOV-HV102* | Alternate Supply | NA |
| 4. MOV-HV100C* | Purge Exhaust | NA |
| 5. MOV-HV100D* | Purge Exhaust | NA |
| 6. MOV-HV101* | Bypass | NA |

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TABLE 3.6-1 (Cont.)

| <u>VALVE NUMBER</u> | <u>FUNCTION</u> | <u>ISOLATION TIME (SEC.)</u> |
|---------------------|--|------------------------------|
| D. MANUAL | | |
| 1. 1-SI-58* | Safety Injection Accumulator Make Up | NA |
| 2. 1-RH-36* | Residual Heat Removal System to Refueling Water Storage Tank | NA |
| 3. 1-RH-37* | Residual Heat Removal System to Refueling Water Storage Tank | NA |
| 4. | Deleted | |
| 5. | Deleted | |
| 6. | Deleted | |
| 7. | Deleted | |
| 8. 1-DA-39* | Primary Vent Pot Vent | NA |
| 9. 1-DA-41* | Primary Vent Pot Vent | NA |
| 10. 1-CH-310#* | Reactor Coolant Pump Seal Water Supply | NA |
| 11. 1-CH-318#* | Reactor Coolant Pump Seal Water Supply | NA |
| 12. 1-CH-314#* | Reactor Coolant Pump Seal Water Supply | NA |
| 13. 1-SA-29* | Service Air | NA |
| 14. 1-SA-2* | Service Air | NA |
| 15. | Deleted | |
| 16. NA* | Fuel Transfer (Tube Penetration #65) | NA |

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TABLE 3.6-1 (Cont.)

| NORTH ANNA - UNIT 1 | <u>VALVE NUMBER</u> | <u>FUNCTION</u> | <u>ISOLATION TIME (SEC.)</u> |
|---------------------|---------------------|---------------------------------|------------------------------|
| | 3/4 6-25 | 17. 1-CV-4* | Air Ejector Suction |
| | 18. 1-RC-176* | Dead Weight Pressure Calibrator | NA |
| | 19. 1-RC-178* | Dead Weight Pressure Calibrator | NA |
| | 20. 1-RP-26* | Refueling Purification Inlet | NA |
| | 21. 1-RP-28* | Refueling Purification Inlet | NA |
| | 22. 1-RP-6* | Refueling Purification Inlet | NA |
| | 23. 1-RP-8* | Refueling Purification Inlet | NA |
| | 24. 1-WT-354#* | Chemical Feed Lines | NA |
| | 25. 1-WT-357#* | Chemical Feed Lines | NA |
| | 26. 1-WT-351#* | Chemical Feed Lines | NA |
| | 27. 1-FP-274* | Fire Protection Hose Standpipe | NA |
| Amendment No. 43 | 28. 1-WT-465* | Steam Generator Wet Layup | NA |
| | 29. 1-WT-468* | Steam Generator Wet Layup | NA |
| | 30. 1-WT-488* | Steam Generator Wet Layup | NA |
| | 31. 1-WT-491* | Steam Generator Wet Layup | NA |
| | 32. 1-WT-511* | Steam Generator Wet Layup | NA |
| | 33. 1-WT-514* | Steam Generator Wet Layup | NA |

TABLE 3.6-1 (Cont.)

| <u>VALVE NUMBER</u> | <u>FUNCTION</u> | <u>ISOLATION TIME (SEC.)</u> |
|-------------------------|--|----------------------------------|
| E. REMOTE MANUAL | | |
| 1. MOV-QS101A* | Quench Spray Pump Discharge | NA |
| 2. MOV-QS101B* | Quench Spray Pump Discharge | NA |
| 3. MOV-RS155A#* | Recirculation Spray Pump Suction | NA |
| 4. MOV-RS155B#* | Recirculation Spray Pump Suction | NA |
| 5. MOV-1860A#* | LHSI Pump Suction From Containment Sump | NA |
| 6. MOV-1860B#* | LHSI Pump Suction From Containment Sump | NA |
| 7. MOV-RS156A* | Recirculation Spray Pump Discharge | NA |
| 8. MOV-RS156B* | Recirculation Spray Pump Discharge | NA |
| 9. MOV-SW103A* | Service Water to Recirculation Spray Coolers | NA |
| 10. MOV-SW103B* | Service Water to Recirculation Spray Coolers | NA |
| 11. MOV-SW103C* | Service Water to Recirculation Spray Coolers | NA |
| 12. MOV-SW103D* | Service Water to Recirculation Spray Coolers | NA |
| 13. MOV-SW104A* | Service Water to Recirculation Spray Coolers | NA |
| 14. MOV-SW104B* | Service Water to Recirculation Spray Coolers | NA |
| 15. MOV-SW104C* | Service Water to Recirculation Spray Coolers | NA |
| 16. MOV-SW104D* | Service Water to Recirculation Spray Coolers | NA |
| 17. TV-CV100* | Containment Air Ejector Suction | NA |
| 18. MOV-1869A* | High Head Safety Injection to RCS Except Boron Injection Line | NA |

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TABLE 3.6-1 (Cont.)

| <u>VALVE NUMBER</u> | <u>FUNCTION</u> | <u>ISOLATION TIME (SEC.)</u> |
|-------------------------|---|----------------------------------|
| 19. MOV-1836* | High Head Safety Injection to RCS Except Boron Injection Line | NA |
| 20. MOV-1869B* | High Head Safety Injection to RCS Except Boron Injection Line | NA |
| 21. HCV-1142* | Reactor Coolant Letdown Line From RHR System | NA |
| 22. Deleted | | |
| 23. Deleted | | |
| 24. MOV-1890A* | LHSI Pump Discharge to Reactor Coolant System Hot Legs | NA |
| 25. MOV-1890B* | LHSI Pump Discharge to Reactor Coolant System Hot Legs | NA |
| 26. MOV-1890C* | LHSI Pump Discharge to Reactor Coolant System Cold Legs | NA |
| 27. MOV-1890D* | LHSI Pump Discharge to Reactor Coolant System Cold Legs | NA |
| 28. FCV-1160* | Loop Fill Header | NA |
| 29. MOV-1289A* | Charging Line | NA |
| 30. MOV-1867C* | High Head Safety Injection, Boron Injection Tank | NA |
| 31. MOV-1867D* | High Head Safety Injection, Boron Injection Tank | NA |
| 32. MOV-RS-100A* | Casing Cooling to Outside Recirculation Spray Pump | NA |
| 33. MOV-RS-100B* | Casing Cooling to Outside Recirculation Spray Pump | NA |
| 34. MOV-RS-101A* | Casing Cooling to Outside Recirculation Spray Pump | NA |

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TABLE 3.6-1 (Cont.)

| <u>VALVE NUMBER</u> | <u>FUNCTION</u> | <u>ISOLATION TIME (SEC.)</u> |
|-------------------------|--|----------------------------------|
| 35. MOV-RS-101B* | Casing Cooling to Outside Recirculation Spray Pump | NA |
| 36. TV-HC-108A* | Containment Atmosphere Sample Line | NA |
| 37. TV-HC-108B* | Containment Atmosphere Sample Line | NA |
| 38. TV-HC-100A | Suction Hydrogen Analyzer | NA |
| 39. TV-HC-100B | Suction Hydrogen Analyzer | NA |
| 40. TV-HC-101A | Discharge Hydrogen Analyzer | NA |
| 41. TV-HC-101B | Discharge Hydrogen Analyzer | NA |
| 42. TV-HC-102A | Suction Hydrogen Analyzer | NA |
| 43. TV-HC-102B | Suction Hydrogen Analyzer | NA |
| 44. TV-HC-103A | Discharge Hydrogen Analyzer | NA |
| 45. TV-HC-103B | Discharge Hydrogen Analyzer | NA |
| 46. TV-HC-104A | Suction Hydrogen Recombiner | NA |
| 47. TV-HC-104B | Suction Hydrogen Recombiner | NA |
| 48. TV-HC-105A | Discharge Hydrogen Recombiner | NA |
| 49. TV-HC-105B | Discharge Hydrogen Recombiner | NA |
| 50. TV-HC-106A | Suction Hydrogen Recombiner | NA |
| 51. TV-HC-106B | Suction Hydrogen Recombiner | NA |
| 52. TV-HC-107A | Discharge Hydrogen Recombiner | NA |
| 53. TV-HC-107B | Discharge Hydrogen Recombiner | NA |

TABLE 3.6-1 (Cont.)

| <u>VALVE NUMBER</u> | <u>FUNCTION</u> | <u>ISOLATION TIME (SEC.)</u> |
|-------------------------|--|----------------------------------|
| F. CHECK | | |
| 1. 1-CC-193 | Component Cooling Water to RHR System and Excess Letdown Heat Exchanger | NA |
| 2. 1-CC-198 | Component Cooling Water to RHR System and Excess Letdown Heat Exchanger | NA |
| 3. 1-SI-79 | High Head Safety Injection, Boron Injection to RCS | NA |
| 4. 1-CC-572 | Component Cooling Water to Containment Air Recirculation Coils | NA |
| 5. 1-CC-559 | Component Cooling Water to Containment Air Recirculation Coils | NA |
| 6. 1-CC-546 | Component Cooling Water to Containment Air Recirculation Coils | NA |
| 7. 1-CH-322 | Charging Line | NA |
| 8. 1-CC-154 | Component Cooling Water to Reactor Coolant Pumps | NA |
| 9. 1-CC-119 | Component Cooling Water to Reactor Coolant Pumps | NA |
| 10. 1-CC-84 | Component Cooling Water to Reactor Coolant Pumps | NA |
| 11. 1-CH-402 | Reactor Coolant Pumps, Seal Water Return | NA |
| 12. 1-SI-110 | Safety Injection Accumulator Make Up | NA |
| 13. 1-SI-185 | High Head Safety Injection to RCS Except Boron Injection Line | NA |
| 14. 1-HC-18 | Discharge From Containment Atmosphere Cleanup System (Hydrogen Recombiner) | NA |
| 15. 1-HC-14 | Discharge From Containment Atmosphere Cleanup System (Hydrogen Recombiner) | NA |
| 16. 1-CH-330# | Reactor Coolant Pump Seal Water Supply | NA |
| 17. 1-CH-336# | Reactor Coolant Pump Seal Water Supply | NA |
| 18. 1-CH-358# | Reactor Coolant Pump Seal Water Supply | NA |
| 19. 1-IA-149 | Air Radiation Monitor Return | NA |
| 20. 1-RC-149 | Primary Grade Water to Pressurizer Relief Tank | NA |
| 21. 1-CH-330 | Loop Fill Header | NA |

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TABLE 3.6-1 (Cont.)

| <u>VALVE NUMBER</u> | <u>FUNCTION</u> | <u>ISOLATION TIME (SEC.)</u> |
|-------------------------|--|----------------------------------|
| 22. | 1-IA-55 Instrument Air Line | NA |
| 23. | 1-SI-106 Nitrogen to Pressurizer Relief Tank and SI Accumulators | NA |
| 24. | 1-SI-206 LHSI Pump Discharge to Reactor Coolant System Hot Legs | NA |
| 25. | 1-SI-207 LHSI Pump Discharge to Reactor Coolant System Hot Legs | NA |
| 26. | 1-SI-195 LHSI Pump Discharge to Reactor Coolant System Cold Legs | NA |
| 27. | 1-SI-197 LHSI Pump Discharge to Reactor Coolant System Cold Legs | NA |
| 28. | 1-SI-199 LHSI Pump Discharge to Reactor Coolant System Cold Legs | NA |
| 29. | 1-QS-19** Quench Spray Pump Discharge | NA |
| 30. | 1-QS-11** Quench Spray Pump Discharge | NA |
| 31. | 1-RS-27** Recirculation Spray Pump Discharge | NA |
| 32. | 1-RS-18** Recirculation Spray Pump Discharge | NA |
| 33. | 1-VP-12 Air Ejector Vent | NA |
| 34. | 1-SI-90 High Head Safety Injection to RCS Except Boron Injection Line | NA |
| 35. | 1-SI-201 High Head Safety Injection to RCS Except Boron Injection Line | NA |
| 36. | 1-SI-85 High Head Safety Injection to RCS Except Boron Injection Line | NA |
| 37. | 1-FW-47# Feedwater to Steam Generators | NA |
| 38. | 1-FW-111# Feedwater to Steam Generators | NA |
| 39. | 1-FW-79# Feedwater to Steam Generators | NA |
| 40. | 1-WT-50# Chemical Feed Lines | NA |
| 41. | 1-WT-66# Chemical Feed Lines | NA |
| 42. | 1-WT-38# Chemical Feed Lines | NA |
| 43. | 1-FW-68# Auxiliary Feedwater to Steam Generator | NA |
| 44. | 1-FW-100# Auxiliary Feedwater to Steam Generator | NA |
| 45. | 1-FW-132# Auxiliary Feedwater to Steam Generator | NA |
| 46. | 1-FP-272# Fire Protection Hose Standpipe | NA |

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