

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

November 14, 1983

Docket Nos. 50-280
and 50-281

T Barnhart
DO NOT REMOVE
Posted
Amndt. 90
to DPR-37

Mr. W. L. Stewart
Vice President - Nuclear Operations
Virginia Electric and Power Company
Post Office Box 26666
Richmond, Virginia 23261

Dear Mr. Stewart:

The Commission has issued the enclosed Amendment No. 91 to Facility Operating License No. DPR-32 and Amendment No. 90 to Facility Operating License No. DPR-37 for the Surry Power Station, Unit Nos. 1 and 2, respectively. The amendments consist of changes to the Technical Specifications in response to your application transmitted by letter dated January 10, 1983.

These amendments revise Technical Specifications tables 3.8-1 and 3.8-2 which list containment isolation valves. This change replaces valves for the hydrogen analyzer system and the Residual Heat Removal Sample line, and removes valves for the leakage monitoring detection system. Several administrative errors are also corrected.

A copy of the Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's next regular monthly Federal Register notice.

Sincerely,

Joseph D. Neighbors
Joseph D. Neighbors, Project Manager
Operating Reactors Branch No. 1
Division of Licensing

Enclosures:

1. Amendment No. 91 to DPR-32
2. Amendment No. 90 to DPR-37
3. Safety Evaluation

cc w/enclosures:
See next page

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

VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NO. 50-280

SURRY POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 91
License No. DPR-32

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Virginia Electric and Power Company (the licensee) dated January 10, 1983, 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.

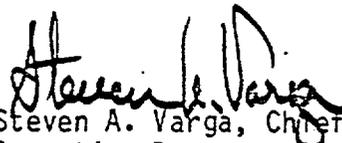
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 3.B of Facility Operating License No. DPR-32 is hereby amended to read as follows:

B. Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 91, 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


Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: November 14, 1983



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

VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NO. 50-281

SURRY POWER STATION, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 90
License No. DPR-37

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Virginia Electric and Power Company (the licensee) dated January 10, 1983, 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 3.B of Facility Operating License No. DPR-37 is hereby amended to read as follows:

B. Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 90, 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


Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: November 14, 1983

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO. 91 TO FACILITY OPERATING LICENSE NO. DPR-32

AMENDMENT NO. 90 TO FACILITY OPERATING LICENSE NO. DPR-37

DOCKET NOS. 50-280 AND 50-281

Revise Appendix A as follows:~

Remove Pages

Insert Pages

3.8-5
3.8-6
3.8-7
3.8-8
3.8-9
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TABLE 3.8-1**UNIT NO. 1 CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
A. PHASE I CONTAINMENT ISOLATION (SAFETY INJECTION SIGNAL)	
1. MOV-1867C	Boron Injection Tank Outlet
2. MOV-1867D	Boron Injection Tank Outlet
3. MOV-1289A	Charging Line
4. MOV-1381	Reactor Coolant Pump Seal Water Return
5. HCV-1200A	Letdown Orifice Isolation
6. HCV-1200B	Letdown Orifice Isolation
7. HCV-1200C	Letdown Orifice Isolation
8. TV-SI-101A	Accumulator N ₂ Relief Line
9. TV-SI-101B	Accumulator N ₂ Relief Line
10. TV-SI-100	Accumulator N ₂ Relief Line
11. TV-VG-109A	Primary Drain Transfer Tank Vent
12. TV-VG-109B	Primary Drain Transfer Tank Vent
13. TV-DG-108A	Primary Drain Transfer Pump Discharge
14. TV-DG-108B	Primary Drain Transfer Pump Discharge
15. TV-CC-109A*	Component Cooling from RHR's
16. TV-CC-109B*	Component Cooling from RHR's
17. TV-SS-100A	Pressurizer Liquid Sample
18. TV-SS-100B	Pressurizer Liquid Sample
19. TV-SS-101A	Pressurizer Vapor Sample
20. TV-SS-101B	Pressurizer Vapor Sample

TABLE 3.8-1**UNIT NO. 1 CONTAINMENT ISOLATION VALVES (Continued)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
21. TV-SS-103A	Residual Heat Removal System Sample
22. TV-SS-103B	Residual Heat Removal System Sample
23. TV-SS-106A	Reactor Coolant Hot Leg Sample
24. TV-SS-106B	Reactor Coolant Hot Leg Sample
25. TV-SS-102A	Reactor Coolant Cold Leg Sample
26. TV-SS-102B	Reactor Coolant Cold Leg Sample
27. TV-SS-104A	Pressurizer Relief Tank Vapor Sample
28. TV-SS-104B	Pressurizer Relief Tank Vapor Sample
29. TV-1204	Letdown Isolation Valve
30. TV-1519A	Primary Grade Water to Pressurizer Relief Tank
31. TV-BD-100A*	Steam Generator Blowdown Valve
32. TV-BD-100B*	Steam Generator Blowdown Valve
33. TV-BD-100C*	Steam Generator Blowdown Valve
34. TV-BD-100D*	Steam Generator Blowdown Valve
35. TV-BD-100E*	Steam Generator Blowdown Valve
36. TV-BD-100F*	Steam Generator Blowdown Valve
37. TV-DA-100A	Containment Sump Pump Isolation
38. TV-DA-100B	Containment Sump Pump Isolation
39. TV-MS-109*	Main Steam Drain Trip Valve
40. TV-MS-110*	Main Steam Drain Trip Valve
41. TV-LM-100A	Containment Isolation Monitoring
42. TV-LM-100B	Containment Isolation Monitoring
43. TV-LM-100C	Containment Isolation Monitoring
44. TV-LM-100D	Containment Isolation Monitoring

TABLE 3.8-1**

UNIT NO. 1 CONTAINMENT ISOLATION VALVES (Continued)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
45. TV-LM-100E	Containment Isolation Monitoring
46. TV-LM-100F	Containment Isolation Monitoring
47. TV-LM-100G	Containment Isolation Monitoring
48. TV-LM-100H	Containment Isolation Monitoring
49. TV-CV-150A	Containment Vacuum Suction Valve
50. TV-CV-150B	Containment Vacuum Suction Valve
51. TV-CV-150C	Containment Vacuum Suction Valve
52. TV-CV-150D	Containment Vacuum Suction Valve
53. TV-SV-102A	Condenser Air Ejector Vent Trip Valve
54. TV-DA-103A	Post-Accident Sample System Containment Return Line
55. TV-DA-103B	Post-Accident Sample System Containment Return Line
B. PHASE II CONTAINMENT ISOLATION (HI CLS SIGNAL)	
1. TV-RM-100A	Containment Air & Particulate Rad. Mon. TV's
2. TV-RM-100B	Containment Air & Particulate Rad. Mon. TV's
3. TV-RM-100C	Containment Air & Particulate Rad. Mon. TV's
4. TV-IA-101A	Containment Instr. Air Compressor Suction
5. TV-IA-101B	Containment Instr. Air Compressor Suction

TABLE 3.8-1**UNIT NO. 1 CONTAINMENT ISOLATION VALVES (Continued)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
C. PHASE III CONTAINMENT ISOLATION (HI-HI CLS SIGNAL)	
1. TV-MS-101A*	Main Steam Trip Valve
2. TV-MS-101B*	Main Steam Trip Valve
3. TV-MS-101C*	Main Steam Trip Valve
4. TV-LA-100	Containment Instr. Air Compressor Disch. Vlv.
5. TV-CC-107*	CC from RCP Thermal Barriers
6. TV-CC-110A*	CC from A Air Recirc.
7. TV-CC-110B*	CC from B Air Recirc.
8. TV-CC-110C*	CC from C Air Recirc.
9. TV-CC-105A*	CC from "A" RCP
10. TV-CC-105B*	CC from "B" RCP
11. TV-CC-105C*	CC from "C" RCP
D. CONTAINMENT PURGE & EXHAUST	
1. MOV-VS-100A	R.C. Purge Supply MOV's
2. MOV-VS-100B	R.C. Purge Supply MOV's
3. MOV-VS-102	Contain. Vacuum Breaker Atmos. Supply MOV
4. MOV-VS-100C	R.C. Purge Exhaust MOV's
5. MOV-VS-100D	R.C. Purge Exhaust MOV's
6. MOV-VS-101	R.C. Purge Exhaust Bypass MOV

TABLE 3.8-1^{**}UNIT NO. 1 CONTAINMENT ISOLATION VALVES (Continued)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
E. REMOTE MANUAL VALVES	
1. MOV-CS-101A	Containment Spray Discharge Valve
2. MOV-CS-101B	Containment Spray Discharge Valve
3. MOV-CS-101C	Containment Spray Discharge Valve
4. MOV-CS-101D	Containment Spray Discharge Valve
5. MOV-RS-155A	Outside Recirc. Spray Suction Valve
6. MOV-RS-155B	Outside Recirc. Spray Suction Valve
7. MOV-RS-156A	Outside Recirc. Discharge Valve
8. MOV-RS-156B	Outside Recirc. Discharge Valve
9. MOV-1842	Bypasses Boron Injec. Tank to Cold Leg Injec.
10. MOV-RH-100	Resi. Heat Remov. to RWST
11. FCV-1160	Loop Fill Header Flow Valve
12. MOV-1890A	Lo Header S. I. Pump Disch. from Hot Leg
13. MOV-1890B	Lo Header S. I. Pump Disch. from Hot Leg
14. MOV-1890C	Lo Header S. I. Pump Disch. from Cold Leg
15. MOV-1869A	Iso. from Hot Leg to Hi Header S. I. Line A
16. MOV-1869B	Iso. from Hot Leg to Hi Header S. I. Line B
17. MOV-1860A	Iso. from Sump to Lo Header S. I.
18. MOV-1860B	Iso. Valve from Sump to Lo Header S. I.
19. MOV-SW-104A*	SW to "A" HX's
20. MOV-SW-104B*	SW to "B" HX's
21. MOV-SW-104C*	SW to "C" HX's

TABLE 3.8-1** -UNIT NO. 1 CONTAINMENT ISOLATION VALVES (Continued)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
22. MOV-SW-104D*	SW to "D" HX's
23. MOV-SW-105A*	SW from "A" HX's
24. MOV-SW-105B*	SW from "B" HX's
25. MOV-SW-105C*	SW from "C" HX's
26. MOV-SW-105D*	SW from "D" HX's
27. HCV-CV-100	Cont. Vacuum Isolation
28. TV-GW-100	Suction from Cont. to H ₂ Analyzer #1
29. TV-GW-101	Suction from Cont. to H ₂ Analyzer #1
30. TV-GW-102	Discharge from H ₂ Analyzer #1 to Containment
31. TV-GW-103	Discharge from H ₂ Analyzer #1 to Containment
32. TV-GW-104	Suction from Cont. to H ₂ Analyzer #2
33. TV-GW-105	Suction from Cont. to H ₂ Analyzer #2
34. TV-GW-106	Discharge from H ₂ Analyzer #2 to Containment
35. TV-GW-107	Discharge from H ₂ Analyzer #2 to Containment
36. TV-GW-111A	Grab Sample
37. TV-GW-111B	Grab Sample

F. MANUAL VALVES

1. 1-SI-150	Boron Injection Tank 1" line
2. 1-SI-32	Accumulator Fill Valve
3. 1-SA-60	Service Air to Containment
4. 1-SA-62	Service Air to Containment
5. 1-IA-446	Instrument Air to Containment
6. 1-VA-1	Outside Isolation from Primary Vent Pot
7. 1-VA-6	Inside Isolation from Primary Vent Pot

TABLE 3.8-1**UNIT NO. 1 CONTAINMENT ISOLATION VALVES (Continued)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
8. 2-IA-446	Cross Tie from #2 Instrument Air Header
9. 1-FP-151	Outside Iso. Vlv for Cont. Fire Protection
10. 1-FP-152	Outside Iso. Vlv for Cont. Fir
11. 1-RL-3	Inlet Vlv to Cavity from RCS Outside Cont.
12. 1-RL-5	Inlet Vlv to Cavity from RCS Inside Cont.
13. 1-RL-13	Suction Vlv to 1-RL-P-1A Inside Containment
14. 1-RL-15	Suction Vlv to 1-RL-P-1A Outside Containment
15. 1-SI-73	Accumulator N ₂ Fill Vlv Outside Containment
16. 1-SI-174	Bypasses MOV-1869A
17. 1-SW-208	RS HX SW Drain
18. 1-SW-206	RS HX SW Drain
19. 1-CV-2	Cont. Vacuum Isolation
G. CONTAINMENT CHECK VALVES	
1. 1-VP-12	Inside Cont. - Air Eject Disch to Cont.
2. 1-RS-17	Inside Cont. - RS Disch to Cont. A
3. 1-RS-11	Inside Cont. - RS Disch to Cont. B
4. 1-CS-13	Inside Cont. - Discharge of 1-CS-P-1A
5. 1-CS-24	Inside Cont. - Discharge of 1-CS-P-1B
6. 1-IA-938	Inside Cont. - Disch of Cont. IA Component
7. 1-SI-234	Check Inside Cont. - N ₂ to Accumulator
8. 1-RC-160	Check Valve Inside Contain. from PG Supply
9. 1-RM-3	Check Valve Inside Contain. - Rad. Monitoring Suc.
10. 1-IA-939	Instr. Air Check Valve to Containment
11. 1-CC-177*	CC to "A" RHR HX
12. 1-CC-176*	CC to "B" RHR HX

TABLE 3.8-1 **UNIT NO. 1 CONTAINMENT ISOLATION VALVES (Continued)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
13. 1-CC-242*	CC to "A" Air Recirc.
14. 1-CC-233*	CC to "B" Air Recirc.
15. 1-CC-224*	CC to "C" Air Recirc.
16. 1-CH-309	Normal Chg. Hdr
17. 1-CC-1*	CC to "A" RCP
18. 1-CC-58*	CC to "B" RCP
19. 1-CC-59*	CC to "C" RCP
20. 1-FP-153*	Inside Cont. - Fire Protection Header
21. 1-SI-224*	HHSI BIT Bypass
22. 1-SI-225*	HHSI from BIT
23. 1-SI-226*	HHSI to Hot Legs
24. 1-SI-227*	LHSI to Hot Leg
25. 1-SI-228*	LHSI Pp Discharge
26. 1-SI-229*	LHSI Pp Discharge

* - Not subject to Type "C" Testing.

** - Modifications to this table should be submitted to the NRC as part of the next license amendment.

TABLE 3.8-2**UNIT NO. 2 CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
A. PHASE I CONTAINMENT ISOLATION (SAFETY INJECTION SIGNAL)	
1. MOV-2867C	Boron Injection Tank Outlet
2. MOV-2867D	Boron Injection Tank Outlet
3. MOV-2289A	Charging Line
4. MOV-2381	Reactor Coolant Pump Seal Water Return
5. HCV-2200A	Letdown Orifice Isolation
6. HCV-2200B	Letdown Orifice Isolation
7. HCV-2200C	Letdown Orifice Isolation
8. TV-SI-201A	Accumulator N ₂ Relief Line
9. TV-SI-201B	Accumulator N ₂ Relief Line
10. TV-SI-200	Accumulator N ₂ Relief Line
11. TV-VG-209A	Primary Drain Transfer Tank Vent
12. TV-VG-209B	Primary Drain Transfer Tank Vent
13. TV-DG-208A	Primary Drain Transfer Pump Discharge
14. TV-DG-208B	Primary Drain Transfer Pump Discharge
15. TV-CC-209A*	Component Cooling from RHR's
16. TV-CC-209B*	Component Cooling from RHR's
17. TV-SS-200A	Pressurizer Liquid Sample
18. TV-SS-200B	Pressurizer Liquid Sample
19. TV-SS-201A	Pressurizer Vapor Sample
20. TV-SS-201B	Pressurizer Vapor Sample

TABLE 3.8-2**UNIT NO. 2 CONTAINMENT ISOLATION VALVES (Continued)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
21. TV-SS-203A	Residual Heat Removal System Sample
22. TV-SS-203B	Residual Heat Removal System Sample
23. TV-SS-206A	Reactor Coolant Hot Leg Sample
24. TV-SS-206B	Reactor Coolant Hot Leg Sample
25. TV-SS-202A	Reactor Coolant Cold Leg Sample
26. TV-SS-202B	Reactor Coolant Cold Leg Sample
27. TV-SS-204A	Pressurizer Relief Tank Vapor Sample
28. TV-SS-204B	Pressurizer Relief Tank Vapor Sample
29. TV-2204	Letdown Isolation Valve
30. TV-2519A	Primary Grade Water to Pressurizer Relief Tank
31. TV-BD-200A*	Steam Generator Blowdown Valve
32. TV-BD-200B*	Steam Generator Blowdown Valve
33. TV-BD-200C*	Steam Generator Blowdown Valve
34. TV-BD-200D*	Steam Generator Blowdown Valve
35. TV-BD-200E*	Steam Generator Blowdown Valve
36. TV-BD-200F*	Steam Generator Blowdown Valve
37. TV-DA-200A	Containment Sump Pump Isolation
38. TV-DA-200B	Containment Sump Pump Isolation
39. TV-MS-209*	Main Steam Drain Trip Valve
40. TV-MS-210*	Main Steam Drain Trip Valve
41. TV-LM-200A	Containment Isolation Monitoring
42. TV-LM-200B	Containment Isolation Monitoring
43. TV-LM-200C	Containment Isolation Monitoring

TABLE 3.8-2**UNIT NO. 2 CONTAINMENT ISOLATION VALVES (Continued)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
44. TV-LM-200D	Containment Isolation Monitoring
45. TV-LM-200E	Containment Isolation Monitoring
46. TV-LM-200F	Containment Isolation Monitoring
47. TV-LM-200G	Containment Isolation Monitoring
48. TV-LM-200H	Containment Isolation Monitoring
49. TV-CV-250A	Containment Vacuum Suction Valve
50. TV-CV-250B	Containment Vacuum Suction Valve
51. TV-CV-250C	Containment Vacuum Suction Valve
52. TV-CV-250D	Containment Vacuum Suction Valve
53. TV-SV-202A	Condenser Air Ejector Vent Trip Valve
54. TV-DA-203A	Post-Accident Sample System Containment Return Line
55. TV-DA-203B	Post-Accident Sample System Containment Return Line
B. PHASE II CONTAINMENT ISOLATION (HI CLS SIGNAL)	
1. TV-RM-200A	Containment Air & Particulate Rad. Mon. TV's
2. TV-RM-200B	Containment Air & Particulate Rad. Mon. TV's
3. TV-RM-200C	Containment Air & Particulate Rad. Mon. TV's
4. TV-IA-201A	Containment Instr. Air Compressor Suction
5. TV-IA-201B	Containment Instr. Air Compressor Suction

TABLE 3.8-2 ** -UNIT NO. 2 CONTAINMENT ISOLATION VALVES (Continued)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
C. PHASE III CONTAINMENT ISOLATION (HI-HI CLS SIGNAL)	
1. TV-MS-201A*	Main Steam Trip Valve
2. TV-MS-201B*	Main Steam Trip Valve
3. TV-MS-201C*	Main Steam Trip Valve
4. TV-IA-200	Containment Instr. Air Compressor Disch. Vlv.
5. TV-CC-207*	CC from RCP Thermal Barriers
6. TV-CC-210A*	CC from A Air Recirc.
7. TV-CC-210B*	CC from B Air Recirc.
8. TV-CC-210C*	CC from C Air Recirc.
9. TV-CC-205A*	CC from "A" RCP
10. TV-CC-205B*	CC from "B" RCP
11. TV-CC-205C*	CC from "C" RCP
D. CONTAINMENT PURGE & EXHAUST	
1. MOV-VS-200A	R.C. Purge Supply MOV's
2. MOV-VS-200B	R.C. Purge Supply MOV's
3. MOV-VS-202	Contain. Vacuum Breaker Atmos. Supply MOV
4. MOV-VS-200C	R.C. Purge Exhaust MOV's
5. MOV-VS-200D	R.C. Purge Exhaust MOV's
6. MOV-VS-201	R.C. Purge Exhaust Bypass MOV

TABLE 3.8-2 **UNIT NO. 2 CONTAINMENT ISOLATION VALVES (Continued)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
E. REMOTE MANUAL VALVES	
1. MOV-CS-201A	Containment Spray Discharge Valve
2. MOV-CS-201B	Containment Spray Discharge Valve
3. MOV-CS-201C	Containment Spray Discharge Valve
4. MOV-CS-201D	Containment Spray Discharge Valve
5. MOV-RS-255A	Outside Recirculation Spray Suction Valve
6. MOV-RS-255B	Outside Recirc. Spray Suction Valve
7. MOV-RS-256A	Outside Recirc. Discharge Valve
8. MOV-RS-256B	Outside Recirc. Discharge Valve
9. MOV-2842	Bypasses Boron Injec. Tank to Cold Leg Injec.
10. MOV-RH-200	Resi. Heat Remov. to RWST
11. FCV-2160	Loop Fill Header Flow Valve
12. MOV-2890A	Lo Header S.I. Pump Disch. from Hot Leg
13. MOV-2890B	Lo Header S.I. Pump Disch. from Hot Leg
14. MOV-2890C	Lo Header S.I. Pump Disch. from Cold Leg
15. MOV-2869A	Iso. from Hot Leg to Hi Header S. I. Line A
16. MOV-2869B	Iso. from Hot Leg to Hi Header S. I. Line B
17. MOV-2860A	Iso. from Sump to Lo Header S. I.
18. MOV-2860B	Iso. Valve from Sump to Lo Header S. I.
19. MOV-SW-204A*	SW to "A" HX's
20. MOV-SW-204B*	SW to "B" HX's
21. MOV-SW-204C*	SW to "C" HX's

TABLE 3.8-2^{**} -UNIT NO. 2 CONTAINMENT ISOLATION VALVES (Continued)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
22. MOV-SW-204D*	SW to "D" HX's
23. MOV-SW-205A*	SW from "A" HX's
24. MOV-SW-205B*	SW from "B" HX's
25. MOV-SW-205C*	SW from "C" HX's
26. MOV-SW-205D*	SW from "D" HX's
27. HCV-CV-200	Cont. Vacuum Isolation
28. TV-GW-200	Suction from Cont. to H ₂ Analyzer #1
29. TV-GW-201	Suction from Cont. to H ₂ Analyzer #1
30. TV-GW-202	Discharge from H ₂ Analyzer #1 to Containment
31. TV-GW-203	Discharge from H ₂ Analyzer #1 to Containment
32. TV-GW-204	Suction from Cont. to H ₂ Analyzer #2
33. TV-GW-205	Suction from Cont. to H ₂ Analyzer #2
34. TV-GW-206	Discharge from H ₂ Analyzer #2 to Containment
35. TV-GW-207	Discharge from H ₂ Analyzer #2 to Containment
36. TV-GW-211A	Grab Sample
37. TV-GW-211B	Grab Sample
F. MANUAL VALVES	
1. 2-SI-150	Boron Injection Tank 1" line
2. 2-SI-32	Accumulator Fill Valve
3. 2-SA-81	Service Air
4. 2-SA-82	Service Air
5. 2-IA-704	Instrument Air to Containment
6. 2-VA-1	Outside Isolation from Primary Vent Pot

TABLE 3.8-2**

UNIT NO. 2 CONTAINMENT ISOLATION VALVES (Continued)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
7. 2-VA-9	Inside Isolation from Primary Vent Pot
8. 1-IA-704	Cross Tie from #1 Instrument Air Header
9. 2-FP-151	Outside Iso. Vlv for Cont. Fire Protection
10. 2-FP-152	Outside Iso. Vlv for Cont. Fire Protection
11. 2-RL-3	Inlet Vlv to Cavity from RCS Outside Cont.
12. 2-RL-5	Inlet Vlv to Cavity from RCS Inside Cont.
13. 2-RL-13	Suction Vlv to 2-RL-P-1A Inside Containment
14. 2-RL-15	Suction Vlv to 2-RL-P-1A Outside Containment
15. 2-SI-73	Accumulator N ₂ Fill Vlv Outside Containment
16. 2-SI-174	Bypasses MOV-2869A
17. 2-SW-208	RS HX SW Drain
18. 2-SW-206	RS HX SW Drain
19. 2-CV-2	Cont. Vacuum Isolation

G. CONTAINMENT CHECK VALVES

1. 2-VP-12	Inside Cont. - Air Eject Disch to Cont.
2. 2-RS-17	Inside Cont. - RS Disch to Cont. A
3. 2-RS-11	Inside Cont. - RS Disch to Cont. B
4. 2-CS-13	Inside Cont. - Discharge of 2-CS-P-1A
5. 2-CS-24	Inside Cont. - Discharge of 2-CS-P-1B
6. 2-IA-864	Inside Cont. - Disch of Cont. IA Component
7. 2-IA-868	Manual Valve - Disch. of IA Component Unit #2
8. 2-SI-234	Check Inside Cont. - N ₂ to Accumulator

TABLE 3.8-2 ** -UNIT NO. 2 CONTAINMENT ISOLATION VALVES (Continued)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>
9. 2-RC-160	Check Valve Inside Contain. from PG Supply
10. 2-RM-3	Check Valve Inside Contain. - Rad. Monitoring Suc.
11. 2-CC-177*	CC to "A" RHR HX
12. 2-CC-176*	CC to "B" RHR HX
13. 2-CC-242*	CC to "A" Air Recirc.
14. 2-CC-233*	CC to "B" Air Recirc.
15. 2-CC-224*	CC to "C" Air Recirc.
16. 2-CH-309	Normal Chg. Hdr
17. 2-CC-1*	CC to "A" RCP
18. 2-CC-58*	CC to "B" RCP
19. 2-CC-59*	CC to "C" RCP
20. 2-FP-153*	Inside Cont. - Fire Protection Header 22.
21. SI-224*	HHSI BIT Bypass
22. 2-SI-225*	HHSI from BIT
23. 2-SI-226*	HHSI to Hot Legs
24. 2-SI-227*	LHSI to Hot Leg
25. 2-SI-228*	LHSI Pp Discharge
26. 2-SI-229*	LHSI Pp Discharge

* - Not subject to Type "C" Testing.

** - Modifications to this table should be submitted to the NRC as part of the next license amendment.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 91 TO FACILITY OPERATING LICENSE NO. DPR-32
AND AMENDMENT NO. 90 TO FACILITY OPERATING LICENSE NO. DPR-37
VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION, UNIT NOS. 1 AND 2
DOCKET NOS. 50-280 AND 50-281

I. Introduction

By letter dated January 10, 1983, the Virginia Electric and Power Company (VEPCO) requested an amendment, in the form of changes to the Technical Specifications, to Operating Licenses Nos. DPR-32 and DPR-37 for the Surry Power Station, Unit Nos. 1 and 2, to reflect containment isolation valve changes in Tables 3.8-1 and 3.8-2. These tables contain a listing of the containment isolation valves.

II. Review Guidelines

Current review guidelines for the containment isolation system of a nuclear power plant are contained in Section 6.2.4 of the Standard Review Plan (SRP 6.2.4), and are based on General Design Criteria (GDC) 54, 55, 56, and 57 of Appendix A to 10 CFR Part 50. GDC 54 establishes design and test requirements, and GDC 55, 56, and 57 establish explicit requirements for isolation valving in lines penetrating the containment. The GDC address the number and location of isolation valves (e.g., redundant valving with one located inside containment and the other located outside the containment), valve actuation provisions (e.g., automatic or remote manual valves), valve position (e.g., locked closed or the position of greater safety in the event of an accident

or power failure), and valve type (e.g., a simple check valve is not a permissible automatic isolation valve outside containment). SRP 6.2.4 at Item II.3 presents guidelines for acceptable alternative containment isolation provisions for certain classes of lines. Containment isolation provisions that are found acceptable on the "other defined basis" represent conformance with the GDC and do not constitute exceptions. NUREG-0737 at Item II.E.4.2 provides additional guidance for upgrading containment isolation systems. Our review of the licensee's proposed changes to the Technical Specifications concerning the containment isolation provisions is based on these guidelines.

III. Evaluation

The staff evaluation of the proposed changes to the Technical Specifications regarding the containment isolation provisions, as described in Table 1, follows:

1. Two air-operated automatic (Phase I) isolation valves were installed in series in the Post-Accident Sample System Return line. This valving arrangement differs from the explicit requirements of GDC 56 from the standpoint of valve location since both valves are located outside containment. System reliability is improved for the long term, post accident condition with both valves outside containment, and since quick-acting, air operated valves are used, their location will not adversely impact the subatmospheric condition of the containment, both during normal plant operation and in the event of an accident. We, therefore, find acceptable the isolation provisions for the sample line.

2. The isolation provisions for the Hydrogen Analyzer System lines were upgraded by replacing the manual valves with remote manual valves. The valving arrangements differ from the explicit requirements of GDC 56 from the standpoint of valve location since the valves are located outside containment. However, system reliability is improved, and the use of remote manual valves will reduce personnel exposure under post-accident conditions. We, therefore, find acceptable the isolation provisions for these lines.
3. Two automatic (Phase I), solenoid-operated, isolation valves were installed in the Residual Heat Removal Sample line, one inside containment and one outside containment. The isolation provisions for this line are acceptable.
4. The servomanometer and isolation valves in the leakage monitoring detection system line, formerly used for Type "A" testing, were removed and the lines capped using seal welds. We find this acceptable. The remaining changes to the Technical Specifications are corrections of typographical errors, valve designations and local leak rate testing status, which are acceptable.

The licensee's proposed changes in the containment isolation provisions and/or plant Technical Specifications have been reviewed. Based on the discussion presented above we conclude that the proposed changes are acceptable.

Environmental Consideration

We have determined that the amendments do 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 amendments involve 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 these amendments.

Conclusion

We have 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, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Date: November 14, 1983

Principal Contributor:
J. Guo

Technical Specification Changes

Table 3.8-1
For Unit 1

Table 3.8-2
For Unit 2

System Description

Description	Valve No.	Location	Valve No.	Location	System Description
1. TWO AIR OPERATED AUTOMATIC (PHASE I) VALVES INSTALLED IN SAMPLE SYSTEM (NUREG-0737 ITEM II.B.3) RETURN LINE.	TV-DA-103A	OC	TV-DA-203A	OC	POST-ACCIDENT SAMPLE SYSTEM RETURN LINE
2. TEN MANUAL VALVES REPLACED WITH REMOTE MANUAL VALVES TO UPGRADE SYSTEM ISOLATION CAPABILITY.	TV-GW-100	OC	TV-GW-200	OC	HYDROGEN ANALYZER SYSTEM LINES
	TV-GW-101	OC	TV-GW-201	OC	
	TV-GW-102	OC	TV-GW-202	OC	
	TV-GW-103	OC	TV-GW-203	OC	
	TV-GW-104	OC	TV-GW-204	OC	
	TV-GW-105	OC	TV-GW-205	OC	
	TV-GW-106	OC	TV-GW-206	OC	
	TV-GW-107	OC	TV-GW-207	OC	
	TV-GW-111A	OC	TV-GW-211A	OC	GRAB SAMPLE LINE
	TV-GW-111B	IC	TV-GW-211B	IC	
3. TWO DIRECT ACTING SOLENOID VALVES INSTALLED TO REPLACE ONE AIR-OPERATED TRIP VALVE (NUREG-0737 ITEM II.B.3)	TV-SS-103A	OC	TV-SS-203A	OC	RESIDUAL HEAT REMOVAL SYSTEM SAMPLE LINE
	TV-SS-103B	IC	TV-SS-203B	IC	
4. SERVOMANOMETER AND VALVES REMOVED AND LINE SEALED WITH CAP	TV-LM-101A		TV-LM-201A		LEAKAGE MONITORING DETECTION SYSTEM LINE FOR TYPE "A" TESTING
	TV-LM-101B		TV-LM-201B		
5. TYPOGRAPHICAL ERRORS IN VALVE NUMBERS IN TABLES CORRECTED	TV-CC-110A		TV-CC-210A		COMPONENT COOLING FROM AIR RECIRCULATION LINES
	TV-CC-110B		TV-CC-210B		
	TV-CC-110C		TV-CC-210C		
	TV-1204		TV-2204		LETDOWN LINE

Technical Specification Changes

Table 3.8-1
For Unit 1

Table 3.8-2
For Unit 2

System Description

Description	Valve No. Location	Valve No. Location	System Description
5. TYPOGRAPHICAL ERRORS IN VALVE NUMBERS IN TABLES CORRECTED (CONTINUED)	TV-1519A	TV-2519A	PRIMARY GRADE WATER TO PRESSURIZER RELIEF TANK
		2-VA-9	PRIMARY VENT POT
	1-SW-206	2-SW-206	RS HX SW DRAIN
6. ERRORS IN TABLES BEING CORRECTED BY ADDING ASTERISK (*) TO CHECK VALVE NUMBERS TO SIGNIFY TYPE "C" TESTING NOT REQUIRED	1-FP-153	2-FP-153	FIRE PROTECTION HEADER
	1-SI-224	2-SI-224	HHSI BIT BYPASS
	1-SI-225	2-SI-225	HHSI TO BIT
	1-SI-226	2-SI-226	LHSI TO HOT LEGS
	1-SI-227	2-SI-227	
	1-SI-228	2-SI-228	LHSI Pp DISCHARGE
	1-SI-229	2-SI-229	
7. ERRORS IN TABLES BEING CORRECTED BY REMOVING VALVES WHICH WERE INCORRECTLY LISTED OR MISPLACED IN TABLES	1-IA-446	2-IA-446	
	1-IA-939	2-IA-938	
	1-SA-446	2-SA-62	
		2-SA-60	
8. ERRORS IN TABLES BEING CORRECTED BY IDENTIFYING THE APPROPRIATE ISOLATION VALVES THAT HAVE BEEN TYPE "C" TESTED	1-IA-704	2-IA-704	
		2-IA-868	
		2-IA-864	
		2-SA-81	
		2-SA-82	