

Docket Nos. 50-327/328

May 16, 1988

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BDLiaw	TVA-Rockville	

Mr. S. A. White  
 Manager of Nuclear Power  
 Tennessee Valley Authority  
 6N 38A Lookout Place  
 1101 Market Street  
 Chattanooga, Tennessee 37402-2801

Dear Mr. White:

SUBJECT: CONTAINMENT ISOLATION VALVES (TAC 00117, 00118)

Re: Sequoyah Nuclear Plant, Units 1 and 2

The Commission has issued the enclosed Amendment No. 70 to Facility Operating License No. DPR-77 and Amendment No. 62 to Facility Operating License No. DPR-79 for the Sequoyah Nuclear Plant, Units 1 and 2, respectively. These amendments are in response to your application dated May 12, 1987.

The amendments add two valves to Technical Specification Table 3.6-2. These valves were inadvertently omitted from the listing of containment isolation valves given in Table 3.6-2. The valve list has also been reordered and typographical corrections were made.

A copy of the Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's Bi-Weekly Federal Register Notice.

Sincerely,

Original Signed by Rajender Auluck for

Gary G. Zech, Assistant Director  
 for Projects  
 TVA Projects Division  
 Office of Special Projects

8806030103 880516  
 PDR ADDCK 05000327  
 P PDR

Enclosures:

1. Amendment No. 70 to License No. DPR-77
2. Amendment No. 62 to License No. DPR-79
3. Safety Evaluation

cc w/enclosures:  
 See next page

OSP:DTVA/LA CJamerson 05/11/88	OSP:DTVA/DM TRotella 4/14/88	OGC-Rockville S H Lewis 4/11/88	TVA AD/P GGZech 4/14/88
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

May 16, 1988

Docket Nos. 50-327/328

Mr. S. A. White  
Manager of Nuclear Power  
Tennessee Valley Authority  
6N 38A Lookout Place  
1101 Market Street  
Chattanooga, Tennessee 37402-2801

Dear Mr. White:

SUBJECT: CONTAINMENT ISOLATION VALVES (TS 87-15) (TAC 00117, 00118)

Re: Sequoyah Nuclear Plant, Units 1 and 2

The Commission has issued the enclosed Amendment No. 70 to Facility Operating License No. DPR-77 and Amendment No. 62 to Facility Operating License No. DPR-79 for the Sequoyah Nuclear Plant, Units 1 and 2, respectively. These amendments are in response to your application dated May 12, 1987.

The amendments add two valves to Technical Specification Table 3.6-2. These valves were inadvertently omitted from the listing of containment isolation valves given in Table 3.6-2. The valve list has also been reordered and typographical corrections were made.

A copy of the Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's Bi-Weekly Federal Register Notice.

Sincerely,

*Rajender Chulucka*

Rajender Auluck, Acting Assistant Director  
for Projects  
TVA Projects Division  
Office of Special Projects

Enclosures:

1. Amendment No. 70 to License No. DPR-77
2. Amendment No. 62 to License No. DPR-79
3. Safety Evaluation

cc w/enclosures:  
See next page

Mr. S. A. White  
Tennessee Valley Authority

cc:  
General Counsel  
Tennessee Valley Authority  
400 West Summit Hill Drive  
E11 B33  
Knoxville, Tennessee 37902

Mr. R. L. Gridley  
Tennessee Valley Authority  
5N 157B Lookout Place  
Chattanooga, Tennessee 37402-2801

Mr. H. L. Abercrombie  
Tennessee Valley Authority  
Sequoyah Nuclear Plant  
P.O. Box 2000  
Soddy Daisy, Tennessee 37379

Mr. M. R. Harding  
Tennessee Valley Authority  
Sequoyah Nuclear Plant  
P.O. Box 2000  
Soddy Daisy, Tennessee 37379

Mr. D. L. Williams  
Tennessee Valley Authority  
400 West Summit Hill Drive  
W10 B85  
Knoxville, Tennessee 37902

County Judge  
Hamilton County Courthouse  
Chattanooga, Tennessee 37402

Sequoyah Nuclear Plant

Regional Administrator, Region II  
U.S. Nuclear Regulatory Commission  
101 Marietta Street, N.W.  
Atlanta, Georgia 30323

Resident Inspector/Sequoyah NP  
c/o U.S. Nuclear Regulatory Commission  
2600 Igou Ferry Road  
Soddy Daisy, Tennessee 37379

Mr. Richard King  
c/o U.S. GAO  
1111 North Shore Drive  
Suite 225, Box 194  
Knoxville, Tennessee 37919

Tennessee Department of  
Public Health  
ATTN: Director, Bureau of  
Environmental Health Services  
Cordell Hull Building  
Nashville, Tennessee 37219

Mr. Michael H. Mobley, Director  
Division of Radiological Health  
T.E.R.R.A. Building  
150 9th Avenue North  
Nashville, Tennessee 37203

Dr. Henry Myers, Science Advisor  
Committee on Interior  
and Insular Affairs  
U.S. House of Representatives  
Washington, D.C. 20515



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

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-327

SEQUOYAH NUCLEAR PLANT, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 70  
License No. DPR-77

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Tennessee Valley Authority (the licensee) dated May 12, 1987, 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.

8806030123 880516  
PDR ADDCK 05000327  
P PDR

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. DPR-77 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 70, 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.

FOR THE NUCLEAR REGULATORY COMMISSION



Rajender Auluck, Acting Assistant Director  
for Projects  
TVA Projects Division  
Office of Special Projects

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: May 16, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 70

FACILITY OPERATING LICENSE NO. DPR-77

DOCKET NO. 50-327

Revise the Appendix A Technical Specifications by removing the pages identified below and inserting the enclosed pages. The revised pages are identified by the captioned amendment number and contain marginal lines indicating the area of change. Overleaf pages\* are provided to maintain document completeness.

REMOVE

3/4 6-19

3/4 6-20

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3/4 6-23

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INSERT

3/4 6-19

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TABLE 3.6-2

CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
A. PHASE "A" ISOLATION		
1. FCV-1-7	SG Blow Dn	10*
2. FCV-1-14	SG Blow Dn	10*
3. FCV-1-25	SG Blow Dn	10*
4. FCV-1-32	SG Blow Dn	10*
5. FCV-1-181	SG Blow Dn	15*
6. FCV-1-182	SG Blow Dn	15*
7. FCV-1-183	SG Blow Dn	15*
8. FCV-1-184	SG Blow Dn	15*
9. FCV-26-240	Fire Protection Isol.	20
10. FCV-26-243	Fire Protection Isol.	20
11. FSV-30-134	Cntmt Bldg Press Trans Sense Line	4*
12. FSV-30-135	Cntmt Bldg Press Trans Sense Line	4*
13. FCV-31C-222	CW-Inst Room Clrs	10*
14. FCV-31C-223	CW-Inst Room Clrs	10*
15. FCV-31C-224	CW-Inst Room Clrs	10*
16. FCV-31C-225	CW-Inst Room Clrs	10*
17. FCV-31C-229	CW-Inst Room Clrs	10*
18. FCV-31C-230	CW-Inst Room Clrs	10*
19. FCV-31C-231	CW-Inst Room Clrs	10*
20. FCV-31C-232	CW-Inst Room Clrs	10*
21. FCV-43-2	Sample Przr Steam Space	10*
22. FCV-43-3	Sample Przr Steam Space	10*
23. FCV-43-11	Sample Przr Liquid	10*
24. FCV-43-12	Sample Przr Liquid	10*
25. FCV-43-22	Sample RC Outlet Hdrs	10*
26. FCV-43-23	Sample RC Outlet Hdrs	10*
27. FCV-43-34	Accum Sample	5*
28. FCV-43-35	Accum Sample	5*
29. FCV-43-55	SG Blow Dn Sample Line	10*

TABLE 3.6-2 (Continued)

CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>	
A. PHASE "A" ISOLATION (Cont.)			
30.	FCV-43-58	SG Blow Dn Sample Line	10*
31.	FCV-43-61	SG Blow Dn Sample Line	10*
32.	FCV-43-64	SG Blow Dn Sample Line	10*
33.	FCV-43-75	Boron Analyzer	5*
34.	FCV-43-77	Boron Analyzer	5*
35.	FCV-61-96	Gylcol Inlet to Floor Cooler	30*
36.	FCV-61-97	Gylcol Inlet to Floor Cooler	30*
37.	FCV-61-110	Gylcol Outlet to Floor Cooler	30*
38.	FCV-61-122	Gylcol Outlet to Floor Cooler	30*
39.	FCV-61-191	Ice Condenser - Gylcol In	30*
40.	FCV-61-192	Ice Condenser - Gylcol In	30*
41.	FCV-61-193	Ice Condenser - Gylcol Out	30*
42.	FCV-61-194	Ice Condenser - Gylcol Out	30*
43.	FCV-62-61	RCP Seals	10
44.	FCV-62-63	RCP Seals	10
45.	FCV-62-72	Letdown Line	10*#
46.	FCV-62-73	Letdown Line	10*#
47.	FCV-62-74	Letdown Line	10*#
48.	FCV-62-77	Letdown Line	20
49.	FCV-63-23	Accum to Hold Up Tank	10*
50.	FCV-63-64	WDS N <sub>2</sub> to Accum	10*
51.	FCV-63-71	Accum to Hold Up Tank	10*
52.	FCV-63-84	Accum to Hold Up Tank	10*
53.	FCV-68-305	WDS N <sub>2</sub> to PRT	10*
54.	FCV-68-307	PRT to Gas Analyzer	10*
55.	FCV-68-308	PRT to Gas Analyzer	10*
56.	FCV-70-85	CCS from Excess Lt Dn Hx	10*
57.	FCV-70-143	CCS to Excess Lt Dn Hx	60*
58.	FCV-77-9	RCDT Pump Disch	10*
59.	FCV-77-10	RCDT Pump Disch	10*
60.	FCV-77-16	RCDT to Gas Analyzer	10*



TABLE 3.6-2 (Continued)  
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>	
A. PHASE "A" ISOLATION (Cont.)			
61.	FCV-77-17	RCDT to Gas Analyzer	10*
62.	FCV-77-18	RCDT and PRT to V H	10*
63.	FCV-77-19	RCDT and PRT to V H	10*
64.	FCV-77-20	N <sub>2</sub> to RCDT	10*
65.	FCV-77-127	Floor Sump Pump Disch	10*
66.	FCV-77-128	Floor Sump Pump Disch	10*
67.	FCV-81-12	Primary Water Makeup	10*
68.	FCV-87-7	UHI Test Line	10*
69.	FCV-87-8	UHI Test Line	10*
70.	FCV-87-9	UHI Test Line	10*
71.	FCV-87-10	UHI Test Line	10*
72.	FCV-87-11	UHI Test Line	10*
B. PHASE "B" ISOLATION			
1.	FCV-32-80	Control Air Supply	10
2.	FCV-32-102	Control Air Supply	10
3.	FCV-32-110	Control Air Supply	10
4.	FCV-67-83	ERCW - LWR Cmpt Clrs	60*
5.	FCV-67-87	ERCW - LWR Cmpt Clrs	60*
6.	FCV-67-88	ERCW - LWR Cmpt Clrs	60*
7.	FCV-67-91	ERCW - LWR Cmpt Clrs	60*
8.	FCV-67-95	ERCW - LWR Cmpt Clrs	60*
9.	FCV-67-96	ERCW - LWR Cmpt Clrs	60*
10.	FCV-67-99	ERCW - LWR Cmpt Clrs	60*
11.	FCV-67-103	ERCW - LWR Cmpt Clrs	60*
12.	FCV-67-104	ERCW - LWR Cmpt Clrs	60*
13.	FCV-67-107	ERCW - LWR Cmpt Clrs	60*
14.	FCV-67-111	ERCW - LWR Cmpt Clrs	60*
15.	FCV-67-112	ERCW - LWR Cmpt Clrs	60*
16.	FCV-67-130	ERCW - Up Cmpt Clrs	60*
17.	FCV-67-131	ERCW - Up Cmpt Clrs	60*
18.	FCV-67-133	ERCW - Up Cmpt Clrs	60*
19.	FCV-67-134	ERCW - Up Cmpt Clrs	60*
20.	FCV-67-138	ERCW - Up Cmpt Clrs	60*

TABLE 3.6-2 (Continued)  
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>	
B. PHASE "B" ISOLATION (Cont.)			
21.	FCV-67-139	ERCW - Up Cmpt Clrs	60*
22.	FCV-67-141	ERCW - Up Cmpt Clrs	60*
23.	FCV-67-142	ERCW - Up Cmpt Clrs	60*
24.	FCV-67-295	ERCW - Up Cmpt Clrs	60*
25.	FCV-67-296	ERCW - Up Cmpt Clrs	60*
26.	FCV-67-297	ERCW - Up Cmpt Clrs	60*
27.	FCV-67-298	ERCW - Up Cmpt Clrs	60*
28.	FCV-70-87	RCP Thermal Barrier Ret	60
29.	FCV-70-89	CCS from RCP Oil Coolers	60
30.	FCV-70-90	RCP Thermal Barrier Ret	60
31.	FCV-70-92	CCS from RCP Oil Coolers	60
32.	FCV-70-134	To RCP Thermal Barriers	60
33.	FCV-70-140	CCS to RCP Oil Coolers	60
C. PHASE "A" CONTAINMENT VENT ISOLATION			
1.	FCV-30-7	Upper Cmpt Purge Air Supply	4*
2.	FCV-30-8	Upper Cmpt Purge Air Supply	4*
3.	FCV-30-9	Upper Cmpt Purge Air Supply	4*
4.	FCV-30-10	Upper Cmpt Purge Air Supply	4*
5.	FCV-30-14	Lower Cmpt Purge Air Supply	4*
6.	FCV-30-15	Lower Cmpt Purge Air Supply	4*
7.	FCV-30-16	Lower Cmpt Purge Air Supply	4*
8.	FCV-30-17	Lower Cmpt Purge Air Supply	4*
9.	FCV-30-19	Inst Room Purge Air Supply	4*
10.	FCV-30-20	Inst Room Purge Air Supply	4*
11.	FCV-30-37	Lower Cmpt Pressure Relief	4*
12.	FCV-30-40	Lower Cmpt Pressure Relief	4*

TABLE 3.6-2 (Continued)  
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>	
C. PHASE "A" CONTAINMENT VENT ISOLATION (Cont.)			
13.	FCV-30-50	Upper Compt Purge Air Exh	4*
14.	FCV-30-51	Upper Compt Purge Air Exh	4*
15.	FCV-30-52	Upper Compt Purge Air Exh	4*
16.	FCV-30-53	Upper Compt Purge Air Exh	4*
17.	FCV-30-56	Lower Compt Purge Air Exh	4*
18.	FCV-30-57	Lower Compt Purge Air Exh	4*
19.	FCV-30-58	Inst Room Purge Air Exh	4*
20.	FCV-30-59	Inst Room Purge Air Exh	4*
21.	FCV-90-107	Cntmt Bldg LWR Compt Air Mon	5*
22.	FCV-90-108	Cntmt Bldg LWR Compt Air Mon	5*
23.	FCV-90-109	Cntmt Bldg LWR Compt Air Mon	5*
24.	FCV-90-110	Cntmt Bldg LWR Compt Air Mon	5*
25.	FCV-90-111	Cntmt Bldg LWR Compt Air Mon	5*
26.	FCV-90-113	Cntmt Bldg UPR Compt Air Mon	5*
27.	FCV-90-114	Cntmt Bldg UPR Compt Air Mon	5*
28.	FCV-90-115	Cntmt Bldg UPR Compt Air Mon	5*
29.	FCV-90-116	Cntmt Bldg UPR Compt Air Mon	5*
30.	FCV-90-117	Cntmt Bldg UPR Compt Air Mon	5*
D. OTHER			
1.	FCV-30-46	Vacuum Relief Isolation Valve	25
2.	FCV-30-47	Vacuum Relief Isolation Valve	25
3.	FCV-30-48	Vacuum Relief Isolation Valve	25

\*Provisions of LCO 3.0.4 are not applicable if valve is secured in its isolated position with power removed and leakage limits of Surveillance Requirement 4.6.3.4 are satisfied.

#Provisions of LCO 3.0.4 are not applicable if valve is secured in its isolated position with power removed and either FCV-62-73 or FCV-62-74 is maintained operable.

## CONTAINMENT SYSTEMS

### 3/4.6.4 COMBUSTIBLE GAS CONTROL

#### HYDROGEN MONITORS

#### LIMITING CONDITION FOR OPERATION

---

3.6.4.1 Two independent containment hydrogen analyzers shall be OPERABLE.

APPLICABILITY: MODES 1 and 2.

ACTION:

With one hydrogen monitor inoperable, restore the inoperable monitor to OPERABLE status within 30 days or be in at least HOT STANDBY within the next 6 hours.

#### SURVEILLANCE REQUIREMENTS

---

4.6.4.1 Each hydrogen monitor shall be demonstrated OPERABLE by the performance of a CHANNEL CHECK at least once per 12 hours, a CHANNEL FUNCTIONAL TEST at least once per 31 days, and at least once per 92 days on a STAGGERED TEST BASIS by performing a CHANNEL CALIBRATION using sample gas containing:

- a. One volume percent hydrogen, balance nitrogen.
- b. Four volume percent hydrogen, balance nitrogen.



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

TENNESSEE VALLEY AUTHORITY  
DOCKET NO. 50-328  
SEQUOYAH NUCLEAR PLANT, UNIT 2  
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 62  
License No. DPR-79

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Tennessee Valley Authority (the licensee) dated May 12, 1987, 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. DPR-79 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 62, 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.

FOR THE NUCLEAR REGULATORY COMMISSION

*Rajender Auluck*

Rajender Auluck, Acting Assistant Director  
for Projects  
TVA Projects Division  
Office of Special Projects

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: May 16, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 62

FACILITY OPERATING LICENSE NO. DPR-79

DOCKET NO. 50-328

Revise the Appendix A Technical Specifications by removing the pages identified below and inserting the enclosed pages. The revised pages are identified by the captioned amendment number and contain marginal lines indicating the area of change. Overleaf pages\* are provided to maintain document completeness.

REMOVE

3/4 6-19

3/4 6-20

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3/4 6-22

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TABLE 3.6-2

CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
A. PHASE "A" ISOLATION		
1. FCV-1-7	SG Blow Dn	10*
2. FCV-1-14	SG Blow Dn	10*
3. FCV-1-25	SG Blow Dn	10*
4. FCV-1-32	SG Blow Dn	10*
5. FCV-1-181	SG Blow Dn	15*
6. FCV-1-182	SG Blow Dn	15*
7. FCV-1-183	SG Blow Dn	15*
8. FCV-1-184	SG Blow Dn	15*
9. FCV-26-240	Fire Protection Isol.	20
10. FCV-26-243	Fire Protection Isol.	20
11. FSV-30-134	Cntmt Bldg Press Trans Sense Line	4*
12. FSV-30-135	Cntmt Bldg Press Trans Sense Line	4*
13. FCV-31C-222	CW-Inst Room Clrs	10*
14. FCV-31C-223	CW-Inst Room Clrs	10*
15. FCV-31C-224	CW-Inst Room Clrs	10*
16. FCV-31C-225	CW-Inst Room Clrs	10*
17. FCV-31C-229	CW-Inst Room Clrs	10*
18. FCV-31C-230	CW-Inst Room Clrs	10*
19. FCV-31C-231	CW-Inst Room Clrs	10*
20. FCV-31C-232	CW-Inst Room Clrs	10*
21. FCV-43-2	Sample Przr Steam Space	10*
22. FCV-43-3	Sample Przr Steam Space	10*
23. FCV-43-11	Sample Przr Liquid	10*
24. FCV-43-12	Sample Przr Liquid	10*
25. FCV-43-22	Sample RC Outlet Hdrs	10*
26. FCV-43-23	Sample RC Outlet Hdrs	10*
27. FCV-43-34	Accum Sample	5*
28. FCV-43-35	Accum Sample	5*
29. FCV-43-55	SG Blow Dn Sample Line	10*
30. FCV-43-58	SG Blow Dn Sample Line	10*



TABLE 3.6-2 (Continued)

CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
A. PHASE "A" ISOLATION		
31. FCV-43-61	SG Blow Dn Sample Line	10*
32. FCV-43-64	SG Blow Dn Sample Line	10*
33. FCV-43-75	Boron Analyzer	5*
34. FCV-43-77	Boron Analyzer	5*
35. FCV-61-96	Gylcol Inlet to Floor Cooler	30*
36. FCV-61-97	Gylcol Inlet to Floor Cooler	30*
37. FCV-61-110	Gylcol Outlet to Floor Cooler	30*
38. FCV-61-122	Gylcol Outlet to Floor Cooler	30*
39. FCV-61-191	Ice Condenser - Gylcol In	30*
40. FCV-61-192	Ice Condenser - Gylcol In	30*
41. FCV-61-193	Ice Condenser - Gylcol Out	30*
42. FCV-61-194	Ice Condenser - Gylcol Out	30*
43. FCV-62-61	RCP Seals	10
44. FCV-62-63	RCP Seals	10
45. FCV-62-72	Letdown Line	10*#
46. FCV-62-73	Letdown Line	10*#
47. FCV-62-74	Letdown Line	10*#
48. FCV-62-77	Letdown Line	20
49. FCV-63-23	Accum to Hold Up Tank	10*
50. FCV-63-64	WDS N <sub>2</sub> to Accum	10*
51. FCV-63-71	Accum to Hold Up Tank	10*
52. FCV-63-84	Accum to Hold Up Tank	10*
53. FCV-68-305	WDS N <sub>2</sub> to PRT	10*
54. FCV-68-307	PRT to Gas Analyzer	10*
55. FCV-68-308	PRT to Gas Analyzer	10*
56. FCV-70-85	CCS from Excess Lt Dn Hx	10*
57. FCV-70-143	CCS to Excess Lt Dn Hx	60*
58. FCV-77-9	RCDT Pump Disch	10*
59. FCV-77-10	RCDT Pump Disch	10*
60. FCV-77-16	RCDT to Gas Analyzer	10*
61. FCV-77-17	RCDT to Gas Analyzer	10*
62. FCV-77-18	RCDT and PRT to V H	10*



TABLE 3.6-2 (Continued)

CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
B. PHASE "B" ISOLATION (Cont.)		
21. FCV-67-139	ERCW - Up Cmpt Clrs	60*
22. FCV-67-141	ERCW - Up Cmpt Clrs	60*
23. FCV-67-142	ERCW - Up Cmpt Clrs	60*
24. FCV-67-295	ERCW - Up Cmpt Clrs	60*
25. FCV-67-296	ERCW - Up Cmpt Clrs	60*
26. FCV-67-297	ERCW - Up Cmpt Clrs	60*
27. FCV-67-298	ERCW - Up Cmpt Clrs	60*
28. FCV-70-87	RCP Thermal Barrier Ret	60
29. FCV-70-89	CCS from RCP Oil Coolers	60
30. FCV-70-90	RCP Thermal Barrier Ret	60
31. FCV-70-92	CCS from RCP Oil Coolers	60
32. FCV-70-134	To RCP Thermal Barriers	60
33. FCV-70-140	CCS to RCP Oil Coolers	60
C. PHASE "A" CONTAINMENT VENT ISOLATION		
1. FCV-30-7	Upper Cmpt Purge Air Supply	4*
2. FCV-30-8	Upper Cmpt Purge Air Supply	4*
3. FCV-30-9	Upper Cmpt Purge Air Supply	4*
4. FCV-30-10	Upper Cmpt Purge Air Supply	4*
5. FCV-30-14	Lower Cmpt Purge Air Supply	4*
6. FCV-30-15	Lower Cmpt Purge Air Supply	4*
7. FCV-30-16	Lower Cmpt Purge Air Supply	4*
8. FCV-30-17	Lower Cmpt Purge Air Supply	4*
9. FCV-30-19	Inst Room Purge Air Supply	4*
10. FCV-30-20	Inst Room Purge Air Supply	4*
11. FCV-30-37	Lower Cmpt Pressure Relief	4*
12. FCV-30-40	Lower Cmpt Pressure Relief	4*

TABLE 3.6-2 (Continued)

CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
C. PHASE "A" CONTAINMENT VENT ISOLATION (Cont.)		
13. FCV-30-50	Upper Compt Purge Air Exh	4*
14. FCV-30-51	Upper Compt Purge Air Exh	4*
15. FCV-30-52	Upper Compt Purge Air Exh	4*
16. FCV-30-53	Upper Compt Purge Air Exh	4*
17. FCV-30-56	Lower Compt Purge Air Exh	4*
18. FCV-30-57	Lower Compt Purge Air Exh	4*
19. FCV-30-58	Inst Room Purge Air Exh	4*
20. FCV-30-59	Inst Room Purge Air Exh	4*
21. FCV-90-107	Cntmt Bldg LWR Compt Air Mon	5*
22. FCV-90-108	Cntmt Bldg LWR Compt Air Mon	5*
23. FCV-90-109	Cntmt Bldg LWR Compt Air Mon	5*
24. FCV-90-110	Cntmt Bldg LWR Compt Air Mon	5*
25. FCV-90-111	Cntmt Bldg LWR Compt Air Mon	5*
26. FCV-90-113	Cntmt Bldg UPR Compt Air Mon	5*
27. FCV-90-114	Cntmt Bldg UPR Compt Air Mon	5*
28. FCV-90-115	Cntmt Bldg UPR Compt Air Mon	5*
29. FCV-90-116	Cntmt Bldg UPR Compt Air Mon	5*
30. FCV-90-117	Cntmt Bldg UPR Compt Air Mon	5*
D. OTHER		
1. FCV-30-46	Vacuum Relief Isolation Valve	25
2. FCV-30-47	Vacuum Relief Isolation Valve	25
3. FCV-30-48	Vacuum Relief Isolation Valve	25

\*Provisions of LCO 3.0.4 are not applicable if valve is secured in its isolated position with power removed and leakage limits of Surveillance Requirement 4.6.3.4 are satisfied.

#Provisions of LCO 3.0.4 are not applicable if valve is secured in its isolated position with power removed and either FCV-62-73 or FCV-62-74 is maintained operable.

## CONTAINMENT SYSTEMS

### 3/4.6.4 COMBUSTIBLE GAS CONTROL

#### HYDROGEN MONITORS

##### LIMITING CONDITION FOR OPERATION

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3.6.4.1 Two independent containment hydrogen monitors shall be OPERABLE.

APPLICABILITY: MODES 1 and 2.

#### ACTION:

With one hydrogen monitor inoperable, restore the inoperable monitor to OPERABLE status within 30 days or be in at least HOT STANDBY within the next 6 hours.

## SURVEILLANCE REQUIREMENTS

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4.6.4.1 Each hydrogen monitor shall be demonstrated OPERABLE by the performance of a CHANNEL CHECK at least once per 12 hours, a CHANNEL FUNCTIONAL TEST at least once per 31 days, and at least once per 92 days on a STAGGERED TEST BASIS by performing a CHANNEL CALIBRATION using sample gas containing:

- a. One volume percent hydrogen, balance nitrogen.
- b. Four volume percent hydrogen, balance nitrogen.



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

SAFETY EVALUATION BY THE OFFICE OF SPECIAL PROJECTS

SUPPORTING AMENDMENT NO. 70 TO FACILITY OPERATING LICENSE NO. DPR-77

AND AMENDMENT NO. 62 TO FACILITY OPERATING LICENSE NO. DPR-79

TENNESSEE VALLEY AUTHORITY

SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2

DOCKET NOS. 50-327 AND 50-328

1.0 INTRODUCTION

By letter dated May 12, 1987, Tennessee Valley Authority (TVA) submitted proposed changes to the Technical Specifications (TS) for Sequoyah, Units 1 and 2, which added two valves to the list of containment isolation valves and corrected typographical errors in this list.

2.0 EVALUATION

Table 3.6-2, "The Listing of the Containment Isolation Valves," of the Sequoyah TS contains a list of valves that are required to isolate the containment from the environment during a Design Basis loss-of-coolant accident. Two valves, designated FSV-30-134 and FSV-30-135 were inadvertently omitted from the listing of containment isolation valves contained in Table 3.6-2. The function and the maximum closure time in seconds of each valve are also listed in the table. The proposed change to the TS would correct the omission.

The proposed amendments also relist the order of the valves listed in Table 3.6-2 so they are listed sequentially by system number. The changes also included corrections to typographical errors.

Because valves FSV-30-134 and FSV-30-135 are containment isolation valves, inclusion in Table 3.6-2 is appropriate, and because the remaining proposed changes provide improvement in the accuracy of Table 3.6-2 and are administrative in nature, the staff concludes the proposed changes are acceptable.

3.0 ENVIRONMENTAL CONSIDERATION

These amendments involve a change to a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents 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.

Accordingly, the 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 nor environmental assessment need be prepared in connection with the issuance of the amendments.

#### 4.0 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 these amendments will not be inimical to the common defense and security nor to the health and safety of the public.

Principal Contributor: P. Hearn, T. Rotella

Dated: May 16, 1988