



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

ALABAMA POWER COMPANY

DOCKET NO. 50-364

JOSEPH M. FARLEY NUCLEAR PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No.34
License No. NPF-8

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Alabama Power Company (the licensee) dated November 24, 1982, supplemented March 23, 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, as amended, the provisions of the Act, and the 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 license 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-8 is hereby amended to read as follows:

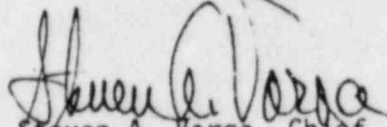
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(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 34, 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



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

Attachment:
Changes to the Technical
Specifications

Date of Issuance: May 17, 1984

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 34 FACILITY OPERATING LICENSE NO. NPF-8

DOCKET NO. 50-364

Revised Appendix A as follows:

<u>Remove Pages</u>	<u>Insert Pages</u>
3/4 6-10	3/4 6-10
3/4 7-49	3/4 7-49
none	3/4 7-49a through 7-49bb
3/4 8-20	3/4 8-20
3/4 8-21	3/4 8-21
3/4 8-22	3/4 8-22
3/4 8-23	3/4 8-23
3/4 8-24	3/4 8-24
3/4 8-25	3/4 8-25
3/4 8-26	3/4 8-26
3/4 8-27	3/4 8-27
3/4 8-28	3/4 8-28
none	3/4 8-28A through 3/4 8-28D
B 3/4 6-2	B 3/4 6-2

CONTAINMENT SYSTEMS

CONTAINMENT VENTILATION SYSTEM

LIMITING CONDITION FOR OPERATION

3.6.1.7 The 48-inch containment purge supply and exhaust isolation valves (CBV-HV-3198A, 3198D, 3196, 3197) shall be deactivated and secured in their closed position. The 8-inch containment vent supply and exhaust isolation valves may be open for safety related reasons.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTION:

With one 48-inch containment purge supply and/or one exhaust isolation valve open, close the open valve(s) within one hour or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

4.6.1.7.1 The 48-inch containment purge supply and exhaust isolation valves shall be determined closed at least once per 31 days.

4.6.1.7.2 The valve seals of the 48-inch and the 8-inch vent supply and exhaust isolation valves shall be replaced at least once per 5 years.

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

	<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
FARLEY - UNIT 2 3/4 7-49	<u>AUX. STEAM</u>					
	SS-13247	2	Aux. Bldg. El. 134' 1" and 135' 4 1/4", Room 2241	A	No	No
	SS-1325G	1	Aux. Bldg. El. 133' 2" Room 2241	A	No	No
	SS-13253	2	Aux. Bldg. El. 133' 9" and 135' 0 1/4", Room 2241	A	No	No
	SS-13255	1	Aux. Bldg. El. 133' 3 1/2" Room 2241	A	No	No
	SS-13721	2	Aux. Bldg. El. 101' 8 3/4" Room 2193	A	No	No

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

HANGER NUMBER	NUMBER OF SNUBBERS	SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION ZONE	ESPECIALLY DIFFICULT
				DURING SHUTDOWN** (Yes or No)	TO REMOVE (Yes or No)
<u>CHEMICAL AND VOLUME CONTROL</u>					
SS-11894	1	CTMT Bldg. El. 118' 0" NW Quadrant	I	Yes	No
SS-11899	2	CTMT Bldg. El. 117' 8" NW Quadrant	I	Yes	No
SS-11902	2	CTMT Bldg. El. 113' 9" NW Quadrant	I	Yes	No
SS-11974	1	CTMT Bldg. El. 128' 10" SW Quadrant	I	Yes	No
SS-11991	1	CTMT Bldg. El. 128' 8" NE Quadrant	I	Yes	No
SS-12002	1	CTMT Bldg. El. 128' 4" NW Quadrant	I	Yes	No
SS-12003	1	CTMT Bldg. El. 128' 10" NW Quadrant	I	Yes	No
SS-12010	1	CTMT Bldg. El. 129' 2" NE Quadrant	I	Yes	No
SS-12011	1	CTMT Bldg. El. 133' 0" NE Quadrant	I	Yes	No

FARLEY - UNIT 2

3/4 7-49a

Amendment No. 34)

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

FARLEY - UNIT 2 3/4 7-49b Amendment No. 34	<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
		SS-12013	2	CTMT Bldg. El. 133' 0" and 133' 9 5/8", NW Quadrant	I	Yes
	SS-12114	1	CTMT Bldg. El. 128' 10" SW Quadrant	I	Yes	No
	SS-12146	1	CTMT Bldg. El. 128' 10" SW Quadrant	I	Yes	No
	SS-12147	1	CTMT Bldg. El. 128' 10" SW Quadrant	I	Yes	No
	SS-12175	1	CTMT Bldg. El. 125' 8 5/16" SW Quadrant	I	Yes	No
	SS-12183	1	CTMT Bldg. El. 128' 6" SW Quadrant	I	Yes	No
	SS-12184	1	CTMT Bldg. El. 128' 6" SW Quadrant	I	Yes	No
	SS-12185	1	CTMT Bldg. El. 128' 6" SW Quadrant	I	Yes	No
	SS-12213	1	CTMT Bldg. El. 128' 8" NE Quadrant	I	Yes	No
	SS-12231	1	CTMT Bldg. El. 128' 5" SE Quadrant	I	Yes	No

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

FARLEY - UNIT 2 3/4 7-49c	HANGER NUMBER	NUMBER OF SNUBBERS	SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION	ESPECIALLY DIFFICULT
					ZONE DURING SHUTDOWN** (Yes or No)	TO REMOVE (Yes or No)
	SS-12237	1	CTMT Bldg. El. 128' 5 7/8" SE Quadrant	I	Yes	No
	SS-12242	1	CTMT Bldg. El. 128' 9 1/2" SE Quadrant	I	Yes	No
	SS-12269	1	CTMT Bldg. El. 129' 8 3/4" NE Quadrant	I	Yes	No
	SS-12274	1	CTMT Bldg. El. 128' 2 3/4" NW Quadrant	I	Yes	No
	SS-12296	1	CTMT Bldg. El. 115' 6" SE Quadrant	I	Yes	No
	SS-12346	1	CTMT Bldg. El. 131' 6" SE Quadrant	I	Yes	No
Amendment No. 34	SS-12357	1	CTMT Bldg. El. 124' 8 1/2" SE Quadrant	I	Yes	No
	SS-12368	1	CTMT Bldg. El. 173' 1 5/16" NW Quadrant	I	Yes	No
	SS-12369	2	CTMT Bldg. El. 169' 0 11/16" NW Quadrant	I	Yes	No
	SS-12370	2	CTMT Bldg. El. 159' 9 3/16" NW Quadrant	I	Yes	No

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

FARLEY - UNIT 2 3/4 7-49d	HANGER NUMBER	NUMBER OF SNUBBERS	SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION	ACCESSIBLE OR	HIGH RADIATION	ESPECIALLY DIFFICULT
				INACCESSIBLE (A or I)	ZONE DURING SHUTDOWN** (Yes or No)	TO REMOVE (Yes or No)
	SS-12372	1	CTMT Bldg. El. 138' 11 5/16" NW Quadrant	I	Yes	No
	SS-12456	1	CTMT Bldg. El. 115' 10 1/4" SW Quadrant	I	Yes	No
	SS-12459	1	CTMT Bldg. El. 114' 10 5/8" SW Quadrant	I	Yes	No
	SS-12473	2	CTMT Bldg. El. 120' 6 1/2" SW Quadrant	I	Yes	No
	SS-12474	1	CTMT Bldg. El. 120' 0" SW Quadrant	I	Yes	No
Amendment No. 34	SS-12476	1	CTMT Bldg. El. 120' 0" SW Quadrant	I	Yes	No
	SS-12477	1	CTMT Bldg. El. 120' 0" SW Quadrant	I	Yes	No
	SS-12482	1	CTMT Bldg. El. 125' 0" SW Quadrant	I	Yes	No
	SS-12483	1	CTMT Bldg. El. 125' 0" SW Quadrant	I	Yes	No
	SS-12484	2	CTMT Bldg. El. 125' 0" NW Quadrant	I	Yes	No

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
SS-12526	2	CTMT Bldg. El. 109' 7" 112' 0", SE Quadrant	I	Yes	No
SS-12527	2	CTMT Bldg. El. 111' 4 1/2" 112' 0", SE Quadrant	I	Yes	No
SS-12528	1	CTMT Bldg. El. 112' 0" SE Quadrant	I	Yes	No
SS-12373	1	CTMT Bldg. El. 138' 11 5/16" NW Quadrant	I	Yes	No
Ss-12543	1	CTMT Bldg. El. 108' 6" NE Quadrant	I	Yes	No
SS-12545	1	CTMT Bldg. El. 108' 6" NE Quadrant	I	Yes	No
SS-12547	1	CTMT Bldg. El. 110' 0" NE Quadrant	I	Yes	No
SS-12634	1	CTMT Bldg. El. 122' 10 1/2" SE Quadrant	I	Yes	No
SS-12639	1	CTMT Bldg. El. 123' 0" SE Quadrant	I	Yes	No
SS-12648	1	CTMT Bldg. El. 128' 6" SE Quadrant	I	Yes	No

FARLEY - UNIT 2

3/4 7-49e

Amendment No. 34

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

HANGER NUMBER	NUMBER OF SNUBBERS	SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION ZONE	ESPECIALLY DIFFICULT
				DURING SHUTDOWN** (Yes or No)	TO REMOVE (Yes or No)
SS-12677	1	CTMT Bldg. E1. 125' 2 1/2" SE Quadrant	I	Yes	No
SS-12684	1	CTMT Bldg. E1. 129' 2" NE Quadrant	I	Yes	No
SS-12685	1	CTMT Bldg. E1. 132' 8 3/4" NE Quadrant	I	Yes	No
SS-12686	1	CTMT Bldg. E1. 129' 9 1/2" NE Quadrant	I	Yes	No
SS-12687	1	CTMT Bldg. E1. 132' 7" NE Quadrant	I	Yes	No
SS-12700	1	CTMT Bldg. E1. 122' 10 5/8" SW Quadrant	I	Yes	No
SS-12701	1	CTMT Bldg. E1. 122' 10 5/8" SW Quadrant	I	Yes	No
SS-12703	1	CTMT Bldg. E1. 122' 3" SW Quadrant	I	Yes	No
SS-12705	1	CTMT Bldg. E1. 122' 3" SW Quadrant	I	Yes	No
SS-12713	1	CTMT Bldg. E1. 124' 0 15/16" NW Quadrant	I	Yes	No

FARLEY - UNIT 2

3/4 7-49f

Amendment No. 34

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
SS-12714	1	CTMT Bldg. El. 124' 0 15/16" NW Quadrant	I	Yes	No
SS-12716	1	CTMT Bldg. El. 124' 0 15/16" NW Quadrant	I	Yes	No
SS-12717	1	CTMT Bldg. El. 124' 0 15/16" NW Quadrant	I	Yes	No
SS-12720	1	CTMT Bldg. El. 122' 6" NW Quadrant	I	Yes	No
SS-12721	1	CTMT Bldg. El. 123' 3" NW Quadrant	I	Yes	No
SS-12722	1	CTMT Bldg. El. 123' 3" NW Quadrant	I	Yes	No
SS-12723	1	CTMT Bldg. El. 123' 3" NW Quadrant	I	Yes	No
SS-12762	2	CTMT Bldg. El. 107' 11 7/8" and 108' 0 1/8", SE Quadrant	I	Yes	No
SS-12763	2	CTMT Bldg. El. 108' 0" SE Quadrant	I	Yes	No
SS-12766	1	CTMT Bldg. El. 121' 7" SE Quadrant	I	Yes	No

FARLEY - UNIT 2

3/4 7-499

Amendment No. 34)

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
SS-12478	1	CTMT Bldg. El. 120' 0" SW Quadrant	I	Yes	No
SS-12718	1	CTMT Bldg. El. 122' 6" NW Quadrant	I	Yes	No
SS-12350	1	CTMT Bldg. El. 132' 3 5/8" SE Quadrant	I	Yes	No
SS-12344	1	CTMT Bldg. El. 129' 6" SE Quadrant	I	Yes	No
SS-13704	1	Aux. Bldg. El. 136' 3 1/2" Room 2206	A	Yes	No

FARLEY - UNIT 2

3/4 7-49h

Amendment No. 34

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

FARLEY - UNIT 2 3/4 7-491 Amendment No. 34	<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
		<u>COMPONENT COOLING WATER</u>				
	SS-12129	1	CTMT Bldg. El. 133' 5 3/4" SW Quadrant	I	Yes	No
	SS-12131	1	CTMT Bldg. El. 133' 5 3/4" SW Quadrant	I	Yes	No
	SS-12135	1	CTMT Bldg. El. 132' 8 3/4" SW Quadrant	I	Yes	No
	SS-12152	1	CTMT Bldg. El. 133' 0" SW Quadrant	I	Yes	No
	SS-12154	1	CTMT Bldg. El. 126' 2 5/16" SW Quadrant	I	Yes	No
	SS-12155	1	CTMT Bldg. El. 133' 0" SW Quadrant	I	Yes	No
	SS-12249	1	CTMT Bldg. El. 133' 8 3/4" NW Quadrant	I	Yes	No
	SS-12254	1	CTMT Bldg. El. 126' 2 5/16" SE Quadrant	I	Yes	No
	SS-12516	1	CTMT Bldg. El. 132' 3" NW Quadrant	I	Yes	No

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
SS-12517	1	CTMT Bldg. E1. 132' 1" NW Quadrant	I	Yes	No

FARLEY - UNIT 2

3/4 7-493

Amendment No. 34

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
<u>CONTAINMENT SPRAY</u>					
2CS-R198	2	CTMT Bldg. E1. 273' 0" SW Quadrant	I	No	Yes
2CS-R199	2	CTMT Bldg. E1. 273' 0" SW Quadrant	I	No	Yes
2CS-R202	2	CTMT Bldg. E1. 255' 0" SE Quadrant	I	No	Yes
2CS-R203	2	CTMT Bldg. E1. 255' 0" NE Quadrant	I	No	Yes
2CS-R254	2	CTMT Bldg. E1. 268' 0" SE Quadrant	I	No	Yes
2CS-R266	2	CTMT Bldg. E1. 266' 7" SW Quadrant	I	No	Yes

FARLEY - UNIT 2

3/4 7-49K

Amendment No. 34

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
<u>LIQUID WASTE DISPOSAL</u>					
SS-12494	1	CTMT Bldg. El. 108' 6" SW Quadrant	I	Yes	No
SS-12496	1	CTMT Bldg. El. 108' 1" SW Quadrant	I	Yes	No
SS-12521	1	CTMT Bldg. El. 107' 9 7/8" NW Quadrant	I	Yes	No
SS-12523	2	CTMT Bldg. El. 107' 1" NW Quadrant	I	Yes	No
SS-12533	1	CTMT Bldg. El. 107' 8 3/4" NW Quadrant	I	Yes	No
SS-12534	1	CTMT Bldg. El. 107' 8 3/4" NW Quadrant	I	Yes	No
SS-12659	1	CTMT Bldg. El. 108' 6" SE Quadrant	I	Yes	No
SS-12660	1	CTMT Bldg. El. 107' 6 1/2" SE Quadrant	I	Yes	No
SS-12662	1	CTMT Bldg. El. 107' 5 1/8" SE Quadrant	I	Yes	No

FARLEY - UNIT 2

3/4 7-491

Amendment No. 34

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
SS-12522	1	CTMT Bldg. El. 107' 9 3/4" NW Quadrant	I	Yes	No
SS-13660	1	Aux. Bldg. El. 103' 10" Room 2184	A	No	No
2WP-BR70	1	CTMT Bldg. El. 106' 11 1/4" SW Quadrant	I	Yes	No

FARLEY - UNIT 2

3/4 7-49m

Amendment No. 34

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

	<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN**</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
					(Yes or No)	(Yes or No)
	<u>MAIN STEAM</u>					
FARLEY - UNIT 2	SS-13177	1	Aux. Bldg. El. 128' 3 1/4" Room 2241	A	No	No
	SS-13179	2	Aux. Bldg. El. 127' 9" Room 2241	A	No	No
3/4 7-49n	SS-13213	1	Aux. Bldg. El. 128' 8" Room 2241	A	No	No
	SS-13217	1	Aux. Bldg. El. 128' 8" Room 2241	A	No	No
	SS-13242	2	Aux. Bldg. El. 127' 7" and 127' 3 3/4", Room 2241	A	No	No
Amendment No. 3A0	SS-13367	1	Aux. Bldg. El. 127' 3 3/4" Room 2241	A	No	No
	SS-13725	1	Aux. Bldg. El. 127' 8 3/8" Room 2241	A	No	No
	SS-14790	1	Aux. Bldg. El. 127' 3 3/4" Room 2241	A	No	No

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
SS-15757	1	Aux. Bldg. El. 127' 3 3/4" Room 2241	A	No	No
SS-15772	1	Aux. Bldg. El. 129' 3" Room 2241	A	No	No

FARLEY - UNIT 2

3/4 7-490

Amendment No. 30

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
<u>REACTOR COOLANT</u>					
2RC-BR1	1	CTMT Bldg. El. 172' 1" NW Quadrant	I	Yes	No
2RC-R116	2	CTMT Bldg. El. 168' 5" NW Quadrant	I	Yes	No
2RC-R5	1	CTMT Bldg. El. 174' 1 5/16" NW Quadrant	I	Yes	No
2RC-R7	2	CTMT Bldg. El. 175' 2" NW Quadrant	I	Yes	No
2RC-R8	2	CTMT Bldg. El. 161' 1" NW Quadrant	I	Yes	No
2RC-R9	1	CTMT Bldg. El. 174' 4 1/8" NW Quadrant	I	Yes	No
2RC-R11	2	CTMT Bldg. El. 171' 1" NW Quadrant	I	Yes	No
2RC-R18	2	CTMT Bldg. El. 163' 0" NW Quadrant	I	Yes	No
2RC-P94	1	CTMT Bldg. El. 171' 4 1/8" NW Quadrant	I	Yes	No

FARLEY - UNIT 2

3/4 7-49p

Amendment No. 34

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBER*

	HANGER NUMBER	NUMBER OF SNUBBER	SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION	ESPECIALLY DIFFICULT
					ZONE DURING SHUTDOWN** (Yes or No)	TO REMOVE (Yes or No)
FARLEY - UNIT 2	2RC-R95	1	CTMT Bldg. El. 171' 4 1/8" NW Quadrant	I	Yes	No
	2RC-R98	2	CTMT Bldg. El. 160' 5" NW Quadrant	I	Yes	No
	2RC-R117	1	CTMT Bldg. El. 169' 10" NW Quadrant	I	Yes	No
3/4 7-49q	2RC-R123X	1	CTMT Bldg. El. 169' 10" NW Quadrant	I	Yes	No
	2RC-R133X	1	CTMT Bldg. El. 169' 10" NW Quadrant	I	Yes	No
Amendment No. 34)	2RC-R139	2	CTMT Bldg. El. 167' 10 1/2" NW Quadrant	I	Yes	No
	2RC-R129X	2	CTMT Bldg. El. 159' 5" NW Quadrant	I	Yes	No
	2RC-R128X	2	CTMT Bldg. El. 151' 9 1/2" NW Quadrant	I	Yes	No
	2RC-R127X	2	CTMT Bldg. El. 146' 0" NW Quadrant	I	Yes	No
	2RC-R10	2	CTMT Bldg. El. 173' 9" NW Quadrant	I	Yes	No

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

	<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN**</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
					(Yes or No)	(Yes or No)
FARLEY - UNIT 2	2RC-R141	1	CTMT Bldg. El. 172' 6 5/8" NW Quadrant	I	Yes	No
	2RC-R144	1	CTMT Bldg. El. 172' 4 1/8" NW Quadrant	I	Yes	No
	2RC-R12	1	CTMT Bldg. El. 171' 4" NW Quadrant	I	Yes	No
3/4 7-49r	2RC-R113	2	CTMT Bldg. El. 159' 4" NW Quadrant	I	Yes	No
	2RC-R147	2	CTMT Bldg. El. 167' 10 1/2" NW Quadrant	I	Yes	No
Amendment No. 34	2RC-R136	2	CTMT Bldg. El. 167' 10 1/2" NW Quadrant	I	Yes	No
	2RC-R142	1	CTMT Bldg. El. 172' 11 1/2" NW Quadrant	I	Yes	No
	2RC-R132X	2	CTMT Bldg. El. 169' 10" NW Quadrant	I	Yes	No
	2RC-R124X	2	CTMT Bldg. El. 169' 10" NW Quadrant	I	Yes	No
	2RTD-R191	1	CTMT Bldg. El. 127' 1" NE Quadrant	I	Yes	No

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

FARLEY - UNIT 2	HANGER NUMBER	NUMBER OF SNUBBERS	SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION	ESPECIALLY DIFFICULT
					ZONE DURING SHUTDOWN** (Yes or No)	TO REMOVE (Yes or No)
	2RTD-R190	1	CTMT Bldg. El. 125' 6" NE Quadrant	I	Yes	No
	2RTD-R173	1	CTMT Bldg. El. 123' 10" SW Quadrant	I	Yes	No
	2RTD-R175	1	CTMT Bldg. El. 123' 10" SW Quadrant	I	Yes	No
3/4 7-495	2RTD-R172	1	CTMT Bldg. El. 123' 10" SW Quadrant	I	Yes	No
	2RTD-R157	1	CTMT Bldg. El. 126' 6" NW Quadrant	I	Yes	Yes
	2RTD-R183	1	CTMT Bldg. El. 124' 3" SE Quadrant	I	Yes	No
Amendment No. 34	2RTD-R182	1	CTMT Bldg. El. 124' 3" SE Quadrant	I	Yes	No
	2RTD-R187	1	CTMT Bldg. El. 124' 10" NE Quadrant	I	Yes	No
	2RTD-R192	1	CTMT Bldg. El. 126' 8" NE Quadrant	I	Yes	No
	2RTD-R177	1	CTMT Bldg. El. 126' 6" SE Quadrant	I	Yes	No

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

	<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN**</u>	<u>ESPECIALLY DIFFICULT TO REMOVE</u>
					(Yes or No)	(Yes or No)
FARLEY - UNIT 2	2RTD-R180	1	CTMT Bldg. El. 126' 6" SE Quadrant	I	Yes	No
	2RTD-R185	1	CTMT Bldg. El. 124' 3" SE Quadrant	I	Yes	No
	2RTD-BR9	1	CTMT Bldg. El. 126' 6" SE Quadrant	I	Yes	No
3/4 7-49t	2RTD-BR10	1	CTMT Bldg. El. 124' 3" SE Quadrant	I	Yes	No
	2RTD-BR2	1	CTMT Bldg. El. 124' 2" NE Quadrant	I	Yes	No
	2RTD-BR4	1	CTMT Bldg. El. 123' 10" SW Quadrant	I	Yes	No
	2RTD-BR6	1	CTMT Bldg. El. 124' 10" NE Quadrant	I	Yes	No
Amendment No. 34	2RTD-BR11	1	CTMT Bldg. El. 126' 6" NW Quadrant	I	Yes	Yes

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

	<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN**</u>	<u>ESPECIALLY DIFFICULT TO REMOVE</u>
					(Yes or No)	(Yes or No)
FARLEY - UNIT 2	SS-11924	2	CTMT Bldg. El. 128' 6 3/16" and 129' 2 11/15", SW Quadrant	I	Yes	No
	SS-11933	2	CTMT Bldg. El. 128' 7" and 129' 3 1/2", NW Quadrant	I	Yes	No
	SS-11945	2	CTMT Bldg. El. 128' 7 7/8" and 129' 4 3/8", SE Quadrant	I	Yes	No
3/4 7-49U	SS-12536	1	CTMT Bldg. El. 140' 5" NW Quadrant	I	Yes	No
	SS-12553	1	CTMT Bldg. El. 154' 1 5/8" NW Quadrant	I	Yes	No
Amendment No. 34	SS-12559	1	CTMT Bldg. El. 162' 1 1/16" NW Quadrant	I	Yes	Yes
	SS-12754	1	CTMT Bldg. El. 119' 3" SW Quadrant	I	Yes	No
	SS-12316	1	CTMT Bldg. El. 111' 3" NE Quadrant	I	Yes	No
	SS-12324	1	CTMT Bldg. El. 109' 1" SE Quadrant	I	Yes	No

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
<u>SAFETY INJECTION</u>					
2SI-BR7	1	CTMT Bldg. El. 114' 9" SW Quadrant	I	Yes	No
2SI-BR9	1	CTMT Bldg. El. 113' 10" SW Quadrant	I	Yes	No
<u>RESIDUAL HEAT REMOVAL</u>					
SS-10319	1	Aux. Bldg. El. 103' 6" Room 2184	A	No	No

FARLEY - UNIT 2

3/4 7-49v

Amendment No. 34

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
<u>STEAM GENERATOR BLOWDOWN</u>					
SS-12793	1	CTMT Bldg. El. 123' 6" SE Quadrant	I	Yes	No
SS-12794	1	CTMT Bldg. El. 122' 6" SE Quadrant	I	Yes	No
SS-12797	1	CTMT Bldg. El. 123' 6" SE Quadrant	I	Yes	No
SS-12798	1	CTMT Bldg. El. 123' 6" SE Quadrant	I	Yes	No
SS-12799	1	CTMT Bldg. El. 128' 1" SE Quadrant	I	Yes	No
SS-12802	1	CTMT Bldg. El. 138' 2 1/4" SE Quadrant	I	Yes	No
SS-12806	2	CTMT Bldg. El. 151' 0" SE Quadrant	I	Yes	No
SS-12827	2	CTMT Bldg. El. 151' 0" SW Quadrant	I	Yes	No
SS-12830	1	CTMT Bldg. El. 139' 0 1/2" SW Quadrant	I	Yes	No

FARLEY - UNIT 2

3/4 7-49W

Amendment No. 34

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
SS-12833	1	CTMT Bldg. El. 125' 3" SW Quadrant	I	Yes	Yes
SS-12834	1	CTMT Bldg. El. 125' 4 1/4" SW Quadrant	I	Yes	Yes
SS-12835	1	CTMT Bldg. El. 128' 6" SW Quadrant	I	Yes	Yes
SS-12848	10	CTMT Bldg. El. 134' 1 5/16" SE Quadrant	I	Yes	No
SS-12862	1	CTMT Bldg. El. 123' 4" SW Quadrant	I	Yes	No
SS-12863	1	CTMT Bldg. El. 126' 3" SW Quadrant	I	Yes	No
SS-12866	1	CTMT Bldg. El. 122' 6" SW Quadrant	I	Yes	Yes
SS-12867	2	CTMT Bldg. El. 131' 8" SE Quadrant	I	Yes	No
SS-12871	1	CTMT Bldg. El. 124' 9" NE Quadrant	I	Yes	No
SS-12872	1	CTMT Bldg. El. 121' 7" NE Quadrant	I	Yes	No

FARLEY - UNIT 2

3/4 7-49x

Amendment No. 34

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
SS-12877	1	CTMT Bldg. El. 121' 7" NW Quadrant	I	Yes	No
SS-12878	1	CTMT Bldg. El. 121' 1" NW Quadrant	I	Yes	No
SS-12882	2	CTMT Bldg. El. 134' 0 9/16" NE Quadrant	I	Yes	No
SS-12883	2	CTMT Bldg. El. 134' 4 1/16" NE Quadrant	I	Yes	No
SS-12886	1	CTMT Bldg. El. 151' 0" NE Quadrant	I	Yes	No
SS-12887	1	CTMT Bldg. El. 151' 0" NE Quadrant	I	Yes	No
SS-12888	2	CTMT Bldg. El. 151' 0" NE Quadrant	I	Yes	Yes
SS-12889	1	CTMT Bldg. El. 151' 0" NE Quadrant	I	Yes	Yes
SS-12891	1	CTMT Bldg. El. 150' 0" NE Quadrant	I	Yes	Yes
SS-12896	1	CTMT Bldg. El. 128' 4" NE Quadrant	I	Yes	No

FARLEY - UNIT 2

3/4 7-49y

Amendment No. 3A

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED IN, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
SS-12897	1	CTMT Bldg. El. 128' 4" NE Quadrant	I	Yes	No
SS-12899	1	CTMT Bldg. El. 131' 7 1/16" NE Quadrant	I	Yes	No
SS-12900	2	CTMT Bldg. El. 144' 0" NE Quadrant	I	Yes	Yes
SS-12906	1	CTMT Bldg. El. 106' 0 1/4" SW Quadrant	I	Yes	No
SS-12940	1	CTMT Bldg. El. 127' 4" SW Quadrant	I	Yes	No
SS-12942	2	CTMT Bldg. El. 127' 4" SW Quadrant	I	Yes	Yes
SS-12944	3	CTMT Bldg. El. 127' 4" SW Quadrant	I	Yes	Yes
SS-12946	1	CTMT Bldg. El. 127' 4" SW Quadrant	I	Yes	No
SS-12951	3	CTMT Bldg. El. 128' 4 1/2" SW Quadrant	I	Yes	Yes
SS-13536	3	Aux. Bldg. El. 134' 9 1/4" 135' 0", Room 2237	A	No	No

FARLEY - UNIT 2

3/4 7-49Z

Amendment No. 34

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NUMBER</u>	<u>NUMBER OF SNUBBERS</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE DURING SHUTDOWN** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
SS-13538	3	Aux. Bldg. El. 130' 9" Room 2237	A	No	No
SS-13546	3	Aux. Bldg. El. 134' 6" Room 2188	A	No	No
SS-13810	1	Aux. Bldg. El. 136' 3" Room 2608	A	No	No
SS-13812	1	Aux. Bldg. El. 130' 9 1/2" Room 2608	A	No	No
SS-13819	1	Aux. Bldg. El. 135' 2 1/4" Room 2223	A	Yes	No
SS-13826	3	Aux. Bldg. El. 133' 0" Room 2223	A	Yes	No
SS-15064	1	Aux. Bldg. El. 132' 10 5/8" Room 2609	A	No	No
SS-15065	1	Aux. Bldg. El. 132' 10 5/8" Room 2609	A	No	No
SS-15066	1	Aux. Bldg. El. 132' 10 5/8" Room 2609	A	No	No
SS-15067	1	Aux. Bldg. El. 132' 5 3/8" Room 2609	A	No	No

FARLEY - UNIT 2

3/4 7-49aa

Amendment No. 34

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

FARLEY - UNIT 2	HANGER NUMBER	NUMBER OF SNUBBERS	SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION	ACCESSIBLE OR	HIGH RADIATION	ESPECIALLY DIFFICUL
				INACCESSIBLE (A or I)	ZONE DURING SHUTDOWN** (Yes or No)	TO REMOVE (Yes or No)
	SS-15068	1	Aux. Bldg. El. 132' 5 3/8" Room 2609	A	No	No
	SS-15069	1	Aux. Bldg. El. 132' 5 3/8" Room 2609	A	No	No

3/4 7-49bb

Amendment No. 34

* Snubbers may be added to safety related systems without prior License Amendment to Table 3.7-4b provided that a revision to Table 3.7-4b is included with the next License Amendment request.

** Modifications to this column due to changes in high radiation areas may be made without prior License Amendment provided that a revision to Table 3.7-4b is included with the next License Amendment request.

TABLE 3.8-1

CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

Device Number and Location	PRIMARY PROTECTION		BACKUP PROTECTION **			System Powered
	Trip Setpoint (Ampere)	Response Time (Sec/Cycles)	Device Number and Location	Trip set Point (Ampere)	Response Time (Sec/Cycles)	
1. 4160VAC Switchgears (NOTE: Response includes relay initiation time & breaker clearing time.)						
DA04	10560	.09/5.4	DA01	18480	.39/9.2	Reactor Coolant Pump 2A
DB03	10560	.09/5.4	DB01	16500	.39/9.2	Reactor Coolant Pump 2B
DC03	10560	.09/5.4	DC04	15310	.39/9.2	Reactor Coolant Pump 2C
2. 600VAC Load Centers						
EA04	2750	.18/11	EPPC-2A CP-1	MSCP Type X	N/A	Reactor Polar Crane
EA10	1980	.10/6	EPPC-2A CP-2	MSCP Type X	N/A	Containment Cooler 2A (Normal)
EB05	1980	.10/6	EPPC-2A CP-6	MSCP Type X	N/A	Containment Cooler 2B (Normal)
EB06	1980	.10/6	EPPC-2F CP-2	MSCP Type X	N/A	Containment Cooler 2C (Normal)
EC12	1980	.10/6	EPPC-2D CP-1	MSCP Type X	N/A	Containment Cooler 2D (Normal)
ED11	1320	.10/6	EPPC-2A CP-3	MSCP Type X	N/A	CRDM Cooler Fan 2A
ED15	1650	.10/6	EPPC-2A CP-4	MSCP Type X	N/A	Containment Cooler 2A (Emergency)
ED16	1650	.10/6	EPPC-2A CP-5	MSCP Type X	N/A	Containment Cooler 2B (Emergency)
EE08	1650	.10/6	EPPC-2D CP-2	MSCP Type X	N/A	Containment Cooler 2C (Emergency)
EE13	1320	.10/6	EPPC-2D CP-3	MSCP Type X	N/A	CRDM Cooler Fan 2B
EE16	1650	.10/6	EPPC-2D CP-4	MSCP Type X	N/A	Containment Cooler 2D (Emergency)
3. 600VAC Motor Control Centers						
FA-F7	231	.012/.72	EPPC-2B CP-1	MSCP Type S	N/A	Reactor Cavity Clg Fan Mtr.
FA-I6	11	.012/.72	EPPC-2B CP-2	MSCP Type S	N/A	Reactor Cavity Cool Fan Mov
FA-I5	116	.012/.72	EPPC-2B CP-3	MSCP Type S	N/A	CTMT Post LOCA Air Mixing Fan 2D
FA-J5	116	.012/.72	EPPC-2B CP-4	MSCP Type S	N/A	CTMT Post LOCA Air Mixing Fan 2C

TABLE 3.B-1
CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

PRIMARY PROTECTION			BACKUP PROTECTION **			
Device Number and Location	Trip Setpoint (Ampere)	Response Time (Sec/Cycles)	Device Number and Location	Trip set Point (Ampere)	Response Time (Sec/Cycles)	System Powered
FB-13	116	.012/.72	EPPC-2F CP-1	MSCP Type S	N/A	CTMT Post LOCA Air Mixing Fan 2B
FB-14	116	.012/.72	EPPC-2F CP-2	MSCP Type S	N/A	CTMT Post LOCA Air Mixing Fan 2A
FD-H7R	770	.012/.72	EPPC-2G CP-1	MSCP Type S	N/A	CTMT GIB Crane (N2T31K005-N)
FB-J7	231	.012/.72	EPPC-2F CP-3	MSCP Type S	N/A	Reactor Cavity Clg Fan Mtr.
FB-A4R	770	.012/.72	EPPC-2F CP-4	MSCP Type S	N/A	CTMT Elevator No. 3 Control
FC-P2	116	.012/.72	EPPC-2C CP-1/2	MSCP Type S	N/A	CTMT Dome Recirc. Fan 2A
FC-P4	116	.012/.72	EPPC-2C CP-3/4	MSCP Type S	N/A	CTMT Dome Recirc. Fan 2B
FC-I2*	770	.012/.72	-----	-----	-----	RCP Motor Space Heaters
FC-I4	138	.012/.72	EPPC-2C CP-5	MSCP Type S	N/A	RCP BRG Oil Lift Pump
FC-N3	138	.012/.72	EPPC-2C CP-6	MSCP Type S	N/A	RCP BRG Oil Lift Pump
FC-J3*	232	.012/.72	-----	-----	-----	Refueling Wtr Surface Supply
FC-M5*	693	.012/.72	EPPC-2C CP-7	MSCP Type S	N/A	Refueling Wtr Surface Exhaust
FC-J5	363	.012/.72	-----	-----	-----	CTMT Pre-Access Fan Motors
FC-M4*	770	.012/.72	-----	-----	-----	RCP Mtr Space Heaters 2C
FC-J6L#	1100	.012/.72	-----	-----	-----	Receptacles Term. Box 2A
FC-J6R*	770	.012/.72	-----	-----	-----	Reactor Cavity Filter Pmp Recep.
FC-S3L*	770	.012/.72	-----	-----	-----	Up Ending Frame Winch Mtr
FC-M4L	770	.012/.72	EPPC-2C CP-8	MSCP Type S	N/A	CTMT GIB Crane (N2T31K004-N)
FC-N2L*	770	.012/.72	-----	-----	-----	Reactor Cavity Manipulator Crane
FC-S3R	770	.012/.72	EPPC-2C CP-9	MSCP Type S	N/A	CTMT GIB Crane (N2T31K006-N)
FC-C5R*	770	.012/.72	-----	-----	-----	SW Port Drain Pump Recept.
FD-D6	138	.012/.72	EPPC-2G CP-2	MSCP Type S	N/A	RCP BRG Oil Lift Pump
FD-E3	116	.012/.72	EPPC-2G CP-3/4	MSCP Type S	N/A	CTMT Dome Recirculation Fan 2D
FD-B4	363	.012/.72	EPPC-2G CP-5	MSCP Type S	N/A	Reactor Cool Drain Tank Pump 2B
FD-C2	138	.012/.72	EPPC-2G CP-6	MSCP Type S	N/A	CTMT Sump Pump Mtr 2A
FD-D2	138	.012/.72	EPPC-2G CP-7	MSCP Type S	N/A	CTMT Sump Pump Mtr 2B
FD-C4	363	.012/.72	EPPC-2G CP-8	MSCP Type S	N/A	CTMT Pre-Access Fan Mtrs
FD-G3*	770	.012/.72	-----	-----	-----	RCP Mtr Space Heaters 2B
FD-A3L#	1100	.012/.72	-----	-----	-----	Receptacles Term Box 2C

TABLE 3.8-1

CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

PRIMARY PROTECTION			BACKUP PROTECTION **			
Device Number and Location	Trip Setpoint (Ampere)	Response Time (Sec/Cycles)	Device Number and Location	Trip set Point (Ampere)	Response Time (Sec/Cycles)	System Powered
FE-A6	363	.012/.72	EPPC-2G CP-9	MSCP Type S	N/A	Reactor Cool Drain Tank Pump 2A
FE-A4L#	1100	.012/.72	-----	-----	---	Receptacles Term Box 28
FE-C3L	1100	.012/.72	EPPC-2G CP-10	MSCP Type S	N/A	Incore Det. Drive & Cont. Pnl.
FE-H5	116	.012/.72	EPPC-2G CP-11/12	MSCP Type S	N/A	CTMT Dome Recirc. Fan 2C
FU-G2	32	.012/.72	EPPC-2B CP-5	MSCP Type S	N/A	RHR Pumps Inlet Mov
FU-H2	13	.012/.72	EPPC-2B CP-6	MSCP Type S	N/A	CTMT Air Cooling Fan Mov
FU-H3	13	.012/.72	EPPC-2B CP-7	MSCP Type S	N/A	CTMT Air Cooling Fan Mov
FU-H4	11	.012/.72	EPPC-2B CP-8	MSCP Type S	N/A	RCP Motor Cooler Disch Mov
FU-J4	11	.012/.72	EPPC-2B CP-9	MSCP Type S	N/A	CTMT To Atmos Diff Press Mov
FU-K4	25	.012/.72	EPPC-2B CP-10	MSCP Type S	N/A	Pressurizer to Relief Tank MOV
FU-K6	11	.012/.72	EPPC-2B CP-11	MSCP Type S	N/A	CTMT Cooler Disch MOV
FU-L4	13	.012/.72	EPPC-2B CP-12	MSCP Type S	N/A	Post ACDT Air Sampler From CTMT Mov
FU-L5	13	.012/.72	EPPC-2B CP-13	MSCP Type S	N/A	Post ACDT Air Sampler From CTMT Mov
FU-T4	25	.012/.72	EPPC-2B CP-14	MSCP Type S	N/A	RCP Seal Water Return Isol.
FU-M4	13	.012/.72	EPPC-2B CP-15	MSCP Type S	N/A	Post ACDT Air Sampler Return Mov
FU-R5	18	.012/.72	EPPC-2B CP-16	MSCP Type S	N/A	CTMT Air Sampler Mov.
FU-V4	13	.012/.72	EPPC-2B CP-17	MSCP Type S	N/A	CRDM Cool Fan Damprs Mov.
FU-W2	18	.012/.72	EPPC-2B CP-18	MSCP Type S	N/A	CTMT Air Cooler Disch Mov.
FU-W4	32	.012/.72	EPPC-2B CP-19	MSCP Type S	N/A	Reactor Cavity H ₂ Dilution Fan VLV 2A
FU-T5	50	.012/.72	EPPC-2B CP-20	MSCP Type S	N/A	RHR System Inlet Isol. Vlv.
FU-Z2	523	.012/.72	Q2R18B032-A	1100	.012/.72	Accumulator 2A Disch. Vlv.
FU-Z3	523	.012/.72	Q2R18B031-A	1100	.012/.72	Accumulator 2C Disch. Vlv.
FV-M3	13	.012/.72	EPPC-2F CP-5	MSCP Type S	N/A	Post ACDT Air Sampler Return Mov.
FV-H4	13	.012/.72	EPPC-2F CP-6	MSCP Type S	N/A	Post ACDT Air Sampler From CTMT Mov
FV-H5	13	.012/.72	EPPC-2F CP-7	MSCP Type S	N/A	Post ACDT Air Sampler From CTMT Mov

TABLE 3.8-1

CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

PRIMARY PROTECTION			BACKUP PROTECTION **			
Device Number and Location	Trip Setpoint (Ampere)	Response Time (Sec/Cycles)	Device Number and Location	Trip set Point (Ampere)	Response Time (Sec/Cycles)	System Powered
FV-Y4	13	.012/.72	EPPC-2F CP-8	MSCP Type S	N/A	Post LOCA CTMT Vent Mov
FV-Y5	32	.012/.72	EPPC-2F CP-9	MSCP Type S	N/A	Instr. Air Line Disch. Mov.
FV-I2	13	.012/.72	EPPC-2F CP-10	MSCP Type S	N/A	CRDM Cool Fan Damper
FV-J4	18	.012/.72	EPPC-2F CP-11	MSCP Type S	N/A	CTMT Air Cooler Disch. Mov.
FV-J5	18	.012/.72	EPPC-2F CP-12	MSCP Type S	N/A	CTMT Air Cooler Disch. Mov.
FV-N2	32	.012/.72	EPPC-2F CP-13	MSCP Type S	N/A	Reac. Cavity H ₂ Dilution Fan Vlv. 2B
FV-S2	523	.012/.72	Q2R18B035-B	1100	.012/.72	Accumulator 1B Disch. Vlv.
FV-Y3	50	.012/.72	EPPC-2F CP-14	MSCP Type S	N/A	RHR System Inlet Isol. Vlv.
FV-W4	25	.012/.72	EPPC-2F CP-15	MSCP Type S	N/A	Pressurizer to Relief Isol. Mov.
FV-V2	50	.012/.72	EPPC-2F CP-16	MSCP Type S	N/A	RHR System Outlet Isol. Vlv.
FV-C3	25	.012/.72	EPPC-2F CP-17	MSCP Type S	N/A	RCP CCW Return from Oil Clr
FV-F2	13	.012/.72	EPPC-2F CP-18	MSCP Type S	N/A	CTMT Air Cooling Fan Mov.
FV-F3	13	.012/.72	EPPC-2F CP-19	MSCP Type S	N/A	CTMT Air Cooling Fan MOV.
FB-02	50	.012/.72	EPPC-2F CP-21	MSCP Type S	N/A	Reactor Cav Cooling Fan MOV.
4. 208 VAC Motor Control Centers						
HA-03	116	.012/.72	EPPC-2B CP-23	MSCP Type N	N/A	Reac. Cavity H ₂ Dilution Fan 2A
HB-N7	116	.012/.72	EPPC-2F CP-23	MSCP Type N	N/A	Reac. Cavity H ₂ Dilution Fan 2B
HB-L7R/HD-N6L	1100	.012/.72	Rod Pos. Ind (40ABKR) Distr. Pnl.	2000	.015/.9	Digital Rod Position Control and Indication
5. 600VAC Pressurizer Distr. Pnl 2A Circuit Bkrs.						
BKR #1	1760	.016/1	EA-11	3300	.18/11	Pressurizer Htr Group 2A Terminal Box N2TB010
BKR #2	1760	.016/1				
BKR #3	1760	.016/1				
BKR #4	1760	.016/1				
BKR #5	1760	.016/1				

TABLE 3.8-1

CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

PRIMARY PROTECTION			BACKUP PROTECTION **			
Device Number and Location	Trip Setpoint (Ampere)	Response Time (Sec/Cycles)	Device Number and Location	Trip set Point (Ampere)	Response Time (Sec/Cycles)	System Powered
6. 600VAC Pressurizer Distr. Pnl 2B Circuit Bkrs.						
BKR #1	1760	.016/1	EC-11	3300	.18/11	Pressurizer Htr Group 2B Terminal Box N2TB011
BKR #2	1760	.016/1				
BKR #3	1760	.016/1				
BKR #4	1760	.016/1				
BKR #5	1760	.016/1				
7. 600VAC Pressurizer Htr. Distr. Pnl 2C Circuit Bkrs.						
BKR #1	1540	.018/1.1	EM-04	4400	.18/11	Pressurizer Htr Group 2C Terminal Box N2TB008
BKR #2	1540	.018/1.1				
BKR #3	1540	.018/1.1				
BKR #4	1540	.018/1.1				
BKR #5	1540	.018/1.1				
BKR #6	1540	.018/1.1				
BKR #7	1540	.018/1.1				
8. 600VAC Pressurizer Htr. Distr. Pnl 2D Circuit Bkrs.						
BKR #1	1540	.018/1.1	EM-05	3300	.18/11	Pressurizer Htr Group 2D Terminal Box N2TB007
BKR #2	1540	.018/1.1				
BKR #3	1540	.018/1.1				
BKR #4	1540	.108/1.1				

TABLE 3.8-1

CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

PRIMARY PROTECTION			BACKUP PROTECTION **			
Device Number and Location	Trip Setpoint (Ampere)	Response Time (Sec/Cycles)	Device Number and Location	Trip set Point (Ampere)	Response Time (Sec/Cycles)	System Powered
9. 600VAC Pressurizer HTR. Distr. Pnl 2E Circuit Bkrs.						
BKR #1	1540	.018/1.1	EN-07 (Unit 1)	3300	.18/1	Pressurizer Htr Group 2E Terminal Box N2TB009
BKR #2	1540	.018/1.1				
BKR #3	1540	.018/1.1				
BKR #4	1540	.018/1.1				
BKR #5	1540	.018/1.1				
10. 125VDC Sol. Vlvs. Power Fuses						
FB1 (TC-05A)	3	N/A	DC Dist Pnl 2A CKT #11	770	.012/.72	PRZR PWR Relief VLV (4454) 2A
FB1 (TC-25A)	3	N/A	DC Dist Pnl 2D CKT #7	770	.012/.72	PRZR PWR Relief VLV (4448) 2B
FB5 (TC-06A)	3	N/A	DC Dist Pnl 2A CKT #17	770	.012/.72	Letdown Line Isol. Vlv. (459)
FB6 (TC-06A)	3	N/A	DC Dist Pnl 2A CKT #17	770	.012/.72	Letdown Line Isol. Vlv. (460)
FB5 (TC-05A)	3	N/A	DC Dist Pnl 2A CKT #11	770	.012/.72	Reac. Cool Drn Tank Pump Disch. Vlv (100)
FB6 (TC-05A)	3	N/A	DC Dist Pnl 2A CKT #11	770	.012/.72	Reac. Cool Drn. Tank Vent Isol. Vlv. (712)
FB3 (TC-06A)	3	N/A	DC Dist Pnl 2A CKT #17	770	.012/.72	RMW to RCP Standpipe Fill (8168C)
FB4 (TC-25B)	3	N/A	DC Dist Pnl 2D CKT #7	770	.012/.72	PRZR Rel. Tnk to RMW Isol. Vlv. (8030)
FB5 (TC-25B)	3	N/A	DC Dist Pnl 2D CKT #7	770	.012/.72	PRZR Rel. Tnk Drn to WPS Drn. Tnk (8030)
FB6 (TC-27B)	3	N/A	DC Dist Pnl 2D CKT #15	770	.012/.72	Excess Letdown Isol. Vlv. (8153)
FB5 (TC-27B)	3	N/A	DC Dist Pnl 2D CKT #18	770	.012/.72	RCS PRZR Aux. Spray Vlv. (8145)
FB7 (TC-27B)	3	N/A	DC Dist Pnl 2D CKT #15	770	.012/.72	Excess Letdown Isol. Vlv. (8154)

TABLE 3.8-1

CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

PRIMARY PROTECTION			BACKUP PROTECTION **			
<u>Device Number and Location</u>	<u>Trip Setpoint (Ampere)</u>	<u>Response Time (Sec/Cycles)</u>	<u>Device Number and Location</u>	<u>Trip set Point (Ampere)</u>	<u>Response Time (Sec/Cycles)</u>	<u>System Powered</u>
FB2 (TC-27B)	3	N/A	DC Dist Pnl 2D CKT #15	770	.012/.72	RMW to RCP Standpipe Fill (8168A)
FB3 (TC-27B)	3	N/A	DC Dist Pnl 2D CKT #15	770	.012/.72	RMW to RCP Standpipe Fill (8168B)
FB2 (TC-08A)	3	N/A	DC Dist Pnl 2A CKT #13	770	.012/.72	Accum. N ₂ Supply & Vent Isol. (8875A)
FB6 (TC-08A)	3	N/A	DC Dist Pnl 2A CKT #13	770	.012/.72	Accum. N ₂ Supply & Vent Isol. (8875C)
FB4 (TC-08A)	3	N/A	DC Dist Pnl 2A CKT #13	770	.012/.72	Accum. Line Test Isol. (8877A)
FB8 (TC-08A)	3	N/A	DC Dist Pnl 2A CKT #13	770	.012/.72	Accum. Line Test Isol. (8877C)
FB3 (TC-08A)	3	N/A	DC Dist Pnl 2A CKT #13	770	.012/.72	Accum. Fill Line Isol. (8878A)
FB7 (TC-08A)	3	N/A	DC Dist Pnl 2A CKT #13	770	.012/.72	Accum Fill Line Isol (8878C)
FB5 (TC-08A)	3	N/A	DC Dist Pnl 2A CKT #13	770	.012/.72	Accum. Inject Test Line Isol. (8879S)
FB9 (TC-08A)	3	N/A	DC Dist Pnl 2A CKT #13	770	.012/.72	Accum. Inject. Test Line Isol. (8879C)
FB2 (TC-29B)	3	N/A	DC Dist Pnl 2D CKT #9	770	.012/.72	Accum. N ₂ Supply & Vent Isol (8875B)
FB4 (TC-29B)	3	N/A	DC Dist Pnl 2D CKT #9	770	.012/.72	Accum. Test Line Isol. (8877B)
FB3 (TC-29B)	3	N/A	DC Dist Pnl 2D CKT #9	770	.012/.72	Accum. Fill Line Isol. (8878B)
FB5 (TC-29B)	3	N/A	DC Dist Pnl 2D CKT #9	770	.012/.72	Accum. Inject. Test Line Isol (8879B)
FB1 (TC-06A)	3	N/A	DC Dist Pnl 2A CKT #17	770	.012/.72	RCP Seal Leak Off Isol (1841A)
FB1 (TC-29B)	3	N/A	DC Dist Pnl 2D CKT #8	770	.012/.72	Damper Sol. Vlvs. CTMT Purge Isol (3196)
FB9 (TC-06A)	3	N/A	DC Dist Pnl 2A CKT #17	770	.012/.72	Letdown Orifice Isol. Vlv. (8149B)

TABLE 3.8-1

CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

PRIMARY PROTECTION			BACKUP PROTECTION **			
Device Number and Location	Trip Setpoint (Ampere)	Response Time (Sec/Cycles)	Device Number and Location	Trip set Point (Ampere)	Response Time (Sec/Cycles)	System Powered
FB2 (TC-06A)	3	N/A	DC Dist Pnl 2A CKT #17	770	.012/.72	RCP Seal Leak Off Isol. (8141C)
FB1 (TC-27B)	3	N/A	DC Dist Pnl 2D CKT #15	770	.012/.72	RCP Seal Leak Off Isol. (8141B)
FB1 (TC-06A)	3	N/A	DC Dist Pnl 2A CKT #18	770	.012/.72	RCS Alternate Charging Line (8147)
FB1 (TC-27B)	3	N/A	DC Dist Pnl 2D CKT #14	770	.012/.72	RCS Normal Charging Line (8146)
FB7 (TC-25B)	3	N/A	DC Dist Pnl 2D CKT #7	770	.012/.72	Reac. Vessel Leak Off Isol. (8032)
FB2 (TC-25B)	3	N/A	DC Dist Pnl 2D CKT #7	770	.012/.72	PRZR Rel. Tnk to RMW Supply Isol (8047)
FB8 (TC-27B)	3	N/A	DC Dist Pnl 2D CKT #15	770	.012/.72	RCP Seals Wtr By-pass Isol. Vlv. (8142)
FB5 (TC-27B)	3	N/A	DC Dist Pnl 2D CKT #15	770	.012/.72	Excess L'Down to VCT or RC DrnTk (8143)
FB10 (TC-06a)	3	N/A	DC Dist Pnl 2A CKT #17	770	.012/.72	Letdown Orifice Isol. Vlv. (8149A)
FB8 (TC-06A)	3	N/A	DC Dist Pnl 2A CKT #17	770	.012/.72	Letdown Orifice Isol. Vlv. (8149C)
FB1 (TC-08A)	3	N/A	DC Dist Pnl 2A CKT #13	770	.012/.72	Accum. Test Line Isol. Vlv. (8871)
FB4 (TC-31B)	3	N/A	DC Dist Pnl 2D CKT #12	770	.012/.72	RCP Comp. Cool (3184)
FB1 (TC-09A)	3	N/A	DC Dist Pnl 2A CKT #6	770	.012/.72	Excess Letdown Hx Cool Disch. (3443)
FAN (NBL2702B-B)	3	N/A	DC Dist Pnl 2E CKT #5	770	.012/.72	SG2A Blowdown (3179C)
FAM (NBL2702B-B)	3	N/A	DC Dist Pnl 2E CKT #5	770	.012/.72	SG2B Blowdown (3180C)
FAL (NBL2707B-B)	3	N/A	DC Dist Pnl 2E CKT #5	770	.012/.72	SG2C Blowdown (3181C)
FAC (NBL2702B-B)	3	N/A	DC Dist Pnl 2E CKT #5	770	.012/.72	SG2A Blowdown (3951B)
FAB (NBL2702B-B)	3	N/A	DC Dist Pnl 2E CKT #5	770	.012/.72	SG2B Blowdown (3952B)
FAA (NBL2702B-B)	3	N/A	DC Dist Pnl 2E CKT #5	770	.012/.72	SG2C Blowdown (3953B)
FAD (NBL2702B-B)	3	N/A	DC Dist Pnl 2E CKT #5	770	.012/.72	CVCS Letdown Line Vlv. (3950B)
FD (NBL2702A-A)	3	N/A	DC Dist Pnl 2B CKT #5	770	.012/.72	CVCS Letdown Line Vlv. (3950A)

TABLE 3.8-1

CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

PRIMARY PROTECTION			BACKUP PROTECTION **			
Device Number and Location	Info Setpoint (Ampere)	Response Time (Sec/Cycles)	Device Number and Location	Trip set Point (Ampere)	Response Time (Sec/Cycles)	System Powered
FC (NBL2702A-A)	3	N/A	DC Dist Pnl 2B CKT #5	770	.012/.72	SG2A Blowdown (3951A)
FB (NBL2702A-A)	3	N/A	DC Dist Pnl 2B CKT #5	770	.012/.72	SG2B Blowdown (3952A)
FA (NBL2702A-A)	3	N/A	DC Dist Pnl 2B CKT #5	770	.012/.72	SG2C Blowdown (3953A)
FK (NBL2702A-A)	3	N/A	DC Dist Pnl 2B CKT #5	770	.012/.72	SG2A Blowdown (7697A)
FJ (NBL2702A-A)	3	N/A	DC Dist Pnl 2B CKT #5	770	.012/.72	SG2B Blowdown (7698A)
FH (NBL2707A-A)	3	N/A	DC Dist Pnl 2E CKT #5	770	.012/.72	SG2C Blowdown (7699A)
FAK (NBL2702B-B)	3	N/A	DC Dist Pnl 2E CKT #5	770	.012/.72	SG2A Blowdown (7697B)
FAJ (NBL2702B-B)	3	N/A	DC Dist Pnl 2E CKT #5	770	.012/.72	SG2B Blowdown (7698B)
FAH (NBL2702B-B)	3	N/A	DC Dist Pnl 2E CKT #5	770	.012/.72	SG2C Blowdown (7699B)
FAS (NBL2702B-B)	3	N/A	DC Dist Pnl 2E CKT #5	770	.012/.72	Press. Stm Space Sampler (3880)
FAR (NBL2702B-B)	3	N/A	DC Dist Pnl 2E CKT #5	770	.012/.72	Press. Liq Space Sampler (3881)
F/3766(NFSS2607A-A)	3	N/A	DC Dist Pnl 2C CKT #6	770	.012/.72	Accumulator Sampler (3766)
F/3179A(NFSS2607A-A)	3	N/A	DC Dist Pnl 2C CKT #6	770	.012/.72	SG2A Blowdown Sampler (3179A)
F/3179B(NFSS2607A-A)	3	N/A	DC Dist Pnl 2C CKT #6	770	.012/.72	SG2A Blowdown Sampler (3179B)
F/3180A(NFSS2607A-A)	3	N/A	DC Dist Pnl 2C CKT #6	770	.012/.72	SG2B Blowdown Sampler (3180A)
F/3180B(NFSS2607A-A)	3	N/A	DC Dist Pnl 2C CKT #6	770	.012/.72	SG2B Blowdown Sampler (3180B)
F/3181A(NFSS2607A-A)	3	N/A	DC Dist Pnl 2C CKT #6	770	.012/.72	SG2C Blowdown Sampler (3181A)
F/3181B(NFSS2607A-A)	3	N/A	DC Dist Pnl 2C CKT #6	770	.012/.72	SG2C Blowdown Sampler (3181B)
F/3162(NFSS2607A-A)	3	N/A	DC Dist Pnl 2C CKT #6	770	.012/.72	Accum. Tank 2A Sampler (3162)
F/3163(NFSS2607A-A)	3	N/A	DC Dist Pnl 2C CKT #6	770	.012/.72	Accum. Tank 2B Sampler (3163)
F/3164(NFSS2607A-A)	3	N/A	DC Dist Pnl 2C CKT #6	770	.012/.72	Accum. Tank 2C Sampler (3164)
F/3101(NFSS2607B-B)	3	N/A	DC Dist Pnl 2F CKT #10	770	.012/.72	Reac. Coolant Hot Leg (3101)
F/3102(NFSS2607B-B)	3	N/A	DC Dist Pnl 2F CKT #10	770	.012/.72	Reac. Coolant Hot Leg (3102)
FA(NGB25040)	3	N/A	DC Dist Pnl 2D CKT #16	770	.012/.72	CTMT Sump Disch. (3376)
FA(NGB25040)	3	N/A	DC Dist Pnl 2G CKT #12	770	.012/.72	CTMT Cooler Drains (3395A)
FD(NGB25040)	3	N/A	DC Dist Pnl 2G CKT #12	770	.012/.72	CTMT Cooler Drains (3395B)
FC(NGB25040)	3	N/A	DC Dist Pnl 2G CKT #12	770	.012/.72	CTMT Cooler Drains (3395C)
FB(NGB25040)	3	N/A	DC Dist Pnl 2G CKT #12	770	.012/.72	CTMT Cooler Drains (3395D)
F/3103(NFSS2607B-B)	3	N/A	DC Dist Pnl 2C CKT #6	770	.012/.72	PRZR Liquid Sampler (3103)
F/3104(NFSS2607B-B)	3	N/A	DC Dist Pnl 2C CKT #6	770	.012/.72	PRZR Liquid Sampler (3104)
F/3765(NFSS2607B-B)	3	N/A	DC Dist Pnl 2C CKT #6	770	.012/.72	Reac. Hot Leg Sampler (3765)

TABLE 3.8-1

CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

PRIMARY PROTECTION			BACKUP PROTECTION **			
<u>Device Number and Location</u>	<u>Trip Setpoint (Ampere)</u>	<u>Response Time (Sec/Cycles)</u>	<u>Device Number and Location</u>	<u>Trip set Point (Ampere)</u>	<u>Response Time (Sec/Cycles)</u>	<u>System Powered</u>
1. 120VAC Sol. Vlvs. Power Fuses						
FM(MGB2504M)	3	N/A	AC Dist Pnl 2J CKT #2	3000	.016/1	Reac. Cavity Cooling (3999A)
FF(MGB25040)	3	N/A	AC Dist Pnl 2K CKT #2	3000	.016/1	Reac. Cavity Cooling (3999B)
2. Variable D.C. Voltage CRDM Fuses (125 V Max)						
FU13/A22	10	N/A	RC Power Cab FU1/2/3	30	N/A	Mechanism #1 Sta. Gripper Group A
FU14/A22	10	N/A	RC Power Cab FU1/2/3	30	N/A	Mechanism #2 Sta. Gripper Group A
FU15/A22	10	N/A	RC Power Cab FU1/2/3	30	N/A	Mechanism #3 Sta. Gripper Group A
FU16/A22	10	N/A	RC Power Cab FU1/2/3	30	N/A	Mechanism #4 Sta. Gripper Group A
FU25/A23	10	N/A	RC Power Cab FU4/5/6	30	N/A	Mechanism #1 Sta. Gripper Group B
FU26/A23	10	N/A	RC power Cab FU4/5/6	30	N/A	Mechanism #2 Sta. Gripper Group B
FU27/A23	10	N/A	RC Power Cab FU4/5/6	30	N/A	Mechanism #3 Sta. Gripper Group B
FU28/A23	10	N/A	RC Power Cab FU4/5/6	30	N/A	Mechanism #4 Sta. Gripper Group B
FU41/A24	10	N/A	RC Power Cab FU7/8/9	30	N/A	Mechanism #1 Sta. Gripper Group C
FU42/A24	10	N/A	RC Power Cab FU7/8/9	30	N/A	Mechanism #2 Sta. Gripper Group C
FU43/A24	10	N/A	RC Power Cab FU7/8/9	30	N/A	Mechanism #3 Sta. Gripper Group C
FU44/A24	10	N/A	RC Power Cab FU7/8/9	30	N/A	Mechanism #4 Sta. Gripper Group C

TABLE 3.8-1

CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

PRIMARY PROTECTION			BACKUP PROTECTION **			
Device Number and Location	Trip Setpoint (Ampere)	Response Time (Sec/Cycles)	Device Number and Location	Trip set Point (Ampere)	Response Time (Sec/Cycles)	System Powered
FU1/A51	50	N/A	Fusible Disconnect Bus Duct Plug-In Unit A-101	150	N/A	Mechanism #1 Lift Group A
FU2/A51	50	N/A		150	N/A	Mechanism #2 Lift Group A
FU1/A52	50	N/A		150	N/A	Mechanism #3 Lift Group A
FU2/A52	50	N/A		150	N/A	Mechanism #4 Lift Group A
FU1/A53	50	N/A		150	N/A	Mechanism #1 Lift Group B
FU2/A53	50	N/A		150	N/A	Mechanism #2 Lift Group B
FU1/A54	50	N/A		150	N/A	Mechanism #3 Lift Group B
FU2/A54	50	N/A		150	N/A	Mechanism #4 Lift Group B
FU1/A55	50	N/A		150	N/A	Mechanism #1 Lift Group C
FU2/A55	50	N/A		150	N/A	Mechanism #2 Lift Group C
FU1/A56	50	N/A		150	N/A	Mechanism #3 Lift Group C
FU2/A56	50	N/A		150	N/A	Mechanism #4 Lift Group C
FU21/A25	10	N/A		30	N/A	Mechanism #1 Moving Gripper Group A
FU22/A25	10	N/A		30	N/A	Mechanism #2 Moving Gripper Group A
FU23/A25	10	N/A		30	N/A	Mechanism #3 Moving Gripper Group A
FU24/A25	10	N/A		30	N/A	Mechanism #4 Moving Gripper Group A
FU33/A26	10	N/A	30	N/A	Mechanism #1 Moving Gripper Group B	
FU34/A26	10	N/A	30	N/A	Mechanism #2 Moving Gripper Group B	
FU35/A26	10	N/A	30	N/A	Mechanism #3 Moving Gripper Group B	
FU36/A26	10	N/A	30	N/A	Mechanism #4 Moving Gripper Group B	
FU49/A27	10	N/A	30	N/A	Mechanism #1 Moving Gripper Group C	
FU50/A27	10	N/A	30	N/A	Mechanism #2 Moving Gripper Group C	
FU51/A27	10	N/A	30	N/A	Mechanism #3 Moving Gripper Group C	
FU52/A27	10	N/A	30	N/A	Mechanism #4 Moving Gripper Group C	
			Fusible Disconnect Bus Duct Plug-In Unit A-102			

TABLE 3.8-1

CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

PRIMARY PROTECTION			BACKUP PROTECTION **			
Device Number and Location	Trip Setpoint (Ampere)	Response Time (Sec/Cycles)	Device Number and Location	Trip set Point (Ampere)	Response Time (Sec/Cycles)	System Powered
3. 480/277 VAC Lighting Cables						
LCP-2R N2T51L003A-N	825	.012/.72	EB09	3300	.1/6	Lighting Panel 2R(N2T51L001A)
LCP-2O N2T51L003D-N	825	.012/.72	EG09	3300	.1/6	Lighting Panel 2O(N2T51L001D)
LCP-2Q N2T51L003B-N	825	.012/.72	EC13	3300	.1/6	Lighting Panel 2Q(N2T51L001B)
LCP-2P N2T51L003C-N	825	.012/.72	EC13	3300	.1/6	Lighting Panel 2P(N2T51L001C)
FE-C3R#	1100	.012/.72	---	----	----	Receptacle Panel 2F(N2T51L002A-N)
4. 480 VAC, 30. H ₂ Recombiner Power Supply						
FAL3L	1100	.012/.72	ED10	6600	.18/11	H ₂ Recombiner HTRS (Q2E17G001A-A)
FB-H6R	1100	.012/.72	EE10	9900	.18/11	H ₂ Recombiner HTRS (Q2E17G001B-B)

* Not required in modes 1-4

May be energized under administrative control when required for maintenance.

** This portion of the table is not valid until after the second refueling outage except for the backup protection devices that have been installed prior to startup following the first refueling outage.

CONTAINMENT SYSTEMS

BASES

The maximum peak pressure expected to be obtained from a LOCA event is 45 psig. The limit of 3 psig for initial positive containment pressure will limit the total pressure to 48 psig which is less than design pressure and is consistent with the accident analyses.

3/4.6.1.5 AIR TEMPERATURE

The limitations on containment average air temperature ensure that the overall containment average air temperature does not exceed the initial temperature condition assumed in the accident analysis for a LOCA or steam line break accident.

3/4.6.1.6 CONTAINMENT STRUCTURAL INTEGRITY

This limitation ensures that the structural integrity of the containment will be maintained comparable to the original design standards for the life of the facility. Structural integrity is required to ensure that the containment will withstand the maximum pressure of 48 psig in the event of a LOCA. The visual examination of tendons, anchorages and exposed interior and exterior surfaces of the containment, and the Type A leakage test, along with the data obtained from Unit 1 tendon surveillance, is sufficient to demonstrate this capability.

The surveillance requirements for demonstrating the containment's structural integrity are in compliance with the recommendations of paragraph C.1.3 of Regulatory Guide 1.35 "Inservice Surveillance of Ungrouted Tendons in Prestressed Concrete Containment Structures," January 1976.

3/4.6.1.7 CONTAINMENT VENTILATION SYSTEM

The 48-inch containment purge supply and exhaust isolation valves are required to be closed in modes above cold shutdown since these valves have not been demonstrated capable of closing during a LOCA or steam line break accident. Maintaining these valves closed during plant operations ensures that excessive quantities of radioactive materials will not be released via the containment purge system.

The use of the containment purge lines is restricted to the 8-inch vent supply and exhaust isolation valves to ensure that the site boundary dose guidelines of 10 CFR Part 100 would not be exceeded in the event of a loss-of-coolant accident during venting operations.

Safety related reasons for venting containment during operation (Modes 1, 2, 3 and 4) includes controlling containment pressure and reducing airborne radioactivity.