ATTACHMENT 1

DUKE POWER COMPANY
MCGUIRE NUCLEAR STATION

Proposed Technical Specification Revision

Tables

3.6-2
3.7-4a
3.7-4b
3.8-1

ATTACHMENT 2

DUKE POWER COMPANY
MCGUIRE NUCLEAR STATION

Justification for the Proposed Technical Specification Revision

Table 3.6-2

The two valves are to be deleted because they are not considered to be isolation valves. The valves are located inside containment and are required to be open when cooling flow to and from the Component Cooling Excess Letdown Heat exchanger is needed.

Tables 3.7-4a and 3.7-4b

The snubbers indicated with a # are to be exempt from functional testing because of the potential for high personnel exposures. Visual inspections will be performed. Preventative maintenance will be performed as provided in the manufacturer's manual.

Table 3.8-1

The changes reflect the most current information for the containment penetration conductor overcurrent protective devices. For the lower voltage circuit breakers the nominal continuous rating and the maximum response time at 300% of the continuous rating are listed. This is in agreement with the manufacturer's specifications for testing of these circuit breakers.

TABLE 3.6-2 (Continued)

CONTAINMENT ISOLATION VALVES

VALVE NUMBER	FUNCTION	MAXIMUM ISOLATION TIME (SEC.)
B. PHASE "B" ISOLATION		
RV-79-A	Upper Containment Vent. Unit Supply Containment Isolation (outside)	<30
RV-80B	Upper Containment Vent. Unit Supply Containment Isolation (inside)	<30
RV-101A	Upper Containment Vent. Unit Discharge Containment Isolation (inside)	<30
RV-102B	Upper Containment Vent. Unit Discharge Containment Isolation (inside)	<30
SM-1AB#	Main Steam 1D Isolation	<5
SM-3AB#	Main Steam 1C Isolation	<5
SM-5AB#	Main Steam 1B Isolation	<5
SM-7AB#	Main Steam 1A Isolation	<5
SM-9AB#	Main Steam 1D Isolation Bypass Ctrl.	<5
SM-10AB#	Main Steam 1C Isolation Bypass Ctrl.	<5
SM-11AB#	Main Steam 1B Isolation Bypass Ctrl.	<5
SM-12AB#	Main Steam 1A Isolation Bypass Ctrl.	<5
C. MANUAL		
~~1. 1RC367#*~~	~~RC To Excess Letdown HX~~	~~N/A~~
~~2. 1RC369#*~~	~~RC From Excess Letdown HX~~	~~N/A~~
3. 1NC141*	NC Pump Motor Oil Drain	N/A
4. 1NC142*	NC Pump Motor Oil Drain	N/A
5. 1WE13*	Equipment Decontamination	N/A
6. 1WE23*	Equipment Decontamination	N/A
7. 1VX34*	Containment H_2 Sample	N/A
8. 1VX40*	Containment H_2 Sample	N/A
9. 1FW11*	Refueling Water	N/A
10. 1FW13*	Refueling Water	N/A
11. 1FW4*	Refueling Water	N/A

*May be opened on an intermittent basis under administrative control.

**Valve also receives a High Radiation (H) isolation signal.

#Not subject to Type C leakage tests.

NOTE: Times are for valve operation only, and do not include any sensor response or circuit delay times. See 3/4 3.2 for system actuation response times.

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
MC-1683-KC.21-R011	1SNB.H	KK57 EL761-06	A	N	N
MC-1683-KC.48-R012	1SNB.H	JJ53 EL747-05	I	N	N
MC-1683-NB.11-R001	1SNB.H	PP59 EL738-02	I	N	N
MC-1683-NB.11-R005A	1SNB.H	PP59 EL738-02	I	N	N
MC-1683-NB.11-R006	1SNB.H	PP59 EL738-02	I	N	N
MC-1683-NB.11-R014	1SNB.H	PP59 EL738-02	I	N	N
MC-1683-NB.12-R003A	1SNB.H	PP57 EL738-02	I	N	N
MC-1683-NB.12-R008	1SNB.H	PP57 EL738-02	I	N	N
MC-1683-NB.12-R011	1SNB.H	PP57 EL738-02	I	N	N
MC-1683-NB.12-R013	1SNB.H	PP57 EL738-02	I	N	N
MC-1683-NV.01-R008A	1SNB.H	JJ54 EL735-02	A	N	N
MC-1683-NV.01-R009B	1SNB.H	JJ54 EL737-07	A	N	N
MC-1683-NV.01-R016	1SNB.H	JJ54 EL743-05	A	N	N
MC-1683-NV.02-R010	1SNB.H	KK54 EL744-02	I	Y	N
MC-1683-NV.04-R022	1SNB.H	NN54 EL740-09	I	N	N
MC-1683-NV.04-R028	1SNB.H	KK54 EL737-06	I	N	N
MC-1683-NV.04-R033	1SNB.H	KK54 EL727-09	I	N	N
MC-1683-NV.40-R019	1SNB.H	JJ51 EL745-06	I	Y	N
MC-1683-NV.60-R003	1SNB.H	JJ51 EL745-00	I	Y	N
MC-1683-RN.13-R018	1SNB.H	HH53 EL717-06	I	N	N
MC-1683-RN.23-R027	1SNB.H	KK54 EL727-01	I	N	N
MC-1683-RN.31-R003A	1SNB.H	HH53 EL728-03	A	N	N
MC-1683-RN.32-R014A	1SNB.H	HH53 EL700-07	I	Y	N
MC-1683-WL.01-R005	1SNB.H	MM58 EL726-07	I	N	N
MC-1683-WL.16-R014	1SNB.H	KK56 EL713-03	I	N	N
1-MCA-AS- H273	1SNB.H	JJ59 EL724-00	I	N	N
1-MCA-AS- H274	1SNB.H	KK59 EL724-06	I	N	N
1-MCA-AS- H275	1SNB.H	KK59 EL724-06	I	N	N
1-MCA-AS- H326	1SNB.H	JJ60 EL726-00	I	Y	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-AS- H335	[illegible]B.H	EE53 EL740-00	I	Y	N
1-MCA-BB- H309	1SNB.H	EE53 EL738-09	I	Y	N
1-MCA-BB- H312	1SNB.H	EE52 EL[illegible]37-03	I	Y	N
1-MCA-BB- H314	1SNB.H	EE52 EL736-09	I	Y	N
1-MCA-BB- H332	1SNB.H	EE52 EL738-00	I	Y	N
1-MCA-BB- H333	2SNB.H	EE52 EL736-08	I	Y	N
1-MCA-BB- H344	1SNB.H	FF53 EL735-11	I	Y	N
1-MCA-Bb- H357	1SNB.H	EE53 EL738-09	I	Y	N
1-MCA-BB- H359	1SNB.H	EE53 EL738-09	I	Y	N
1-MCA-BB- H366	1SNB.H	FF52 EL739-03	I	Y	N
1-MCA-BB- H370	2SNB.H	GG53 EL743-06	I	Y	N
1-MCA-BB- H380	1SNB.H	EE53 EL739-06	I	Y	N
1-MCA-BB- H383	1SNB.H	EE52 EL740-00	I	Y	N
1-MCA-BB- H410	2SNB.H	FF52 EL733-06	I	Y	N
1-MCA-BB- H411	1SNB.H	FF53 EL735-06	I	Y	N
#-1-MCA-BB- H420	1SNB.H	FF52 EL738-09	I	Y	N
1-MCA-BB- H424	1SNB.H	FF53 EL740-06	I	Y	N
1-MCA-BW- H099	1SNB.H	EE53 EL758-09	A	N	N
1-MCA-BW- H104	1SNB.H	EE44 EL759-06	A	N	N
#-1-MCA-CA- H175	1SNB.H	EE53 EL724-00	I	Y	N
1-MCA-CA- H183	1SNB.H	EE43 EL759-06	A	N	N
1-MCA-CA- H185	1SNB	EE43 EL758-06	A	N	N
1-MCA-CA- H187	1SNB.A	DD53 EL721-06	I	Y	N
1-MCA-CA- H198	1SNB.H	DD45 EL759-06	I	Y	N
1-MCA-CA- H220	1SNB.H	BB52 EL724-06	A	N	N
1-MCA-CA- H228	1SNB.	DD45 EL758-09	A	N	N

#-Exempted from periodic functional testing.

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-CA- H360	1SNB.H	DD53 EL733-10	A	N	N
1-MCA-CA- H364	1SNB.H	EE53 EL759-06	A	N	N
1-MCA-CA- H365	1SNB.H	EE53 EL759-06	A	N	N
1-MCA-CA- H366	1SNB.H	EE53 EL758-07	A	N	N
1-MCA-CA- H369	1SNB.H	EE53 EL757-11	A	N	N
1-MCA-CA- H370	1SNB.H	FF53 EL757-00	A	N	N
1-MCA-CA- H371	1SNB.H	FF53 EL751-09	A	N	N
1-MCA-CA- H373	1SNB.H	FF53 EL753-01	A	N	N
1-MCA-CA- H374	2SNB.H	FF53 EL753-00	A	N	N
1-MCA-CA- H379	1SNB.H	EE53 EL759-06	A	N	N
1-MCA-CA- H380	1SNB.H	EE53 EL757-06	A	N	N
1-MCA-CA- H381	1SNB.H	EE53 EL757-06	A	N	N
1-MCA-CA- H383	2SNB.H	EE53 EL756-03	A	N	N
1-MCA-CA- H385	1SNB.H	EE53 EL759-06	A	N	N
1-MCA-CA- H410	1SNB.H	FF52 EL752-10	A	N	N
1-MCA-CA- H411	1SNB.H	FF52 EL758-00	A	N	N
1-MCA-CA- H412	1SNB.H	FF52 EL758-06	A	N	N
1-MCA-CA- H414	1SNB.H	FF52 EL759-06	A	N	N
1-MCA-CA- H417	1SNB.H	EE52 EL759-06	A	N	N
1-MCA-CA- H420	1SNB.H	EE52 EL759-06	A	N	N
1-MCA-CA- H422	1SNB.H	DD52 EL758-08	A	N	N
1-MCA-CA- H423	1SNB.H	DD52 EL756-08	A	N	N
1-MCA-CA- H424	1SNB.H	DD52 EL756-02	A	N	N
1-MCA-CA- H425	1SNB.H	EE43 EL759-06	A	N	N
1-MCA-CA- H427	2SNB.H	EE43 EL759-06	A	N	N
1-MCA-CA- H430	1SNB.H	EE43 EL759-06	A	N	N
1-MCA-CA- H432	1SNB.H	EE43 EL758-06	A	N	N
1-MCA-CA- H433	1SNB.H	FF43 EL757-00	A	N	N
1-MCA-CA- H434	1SNB.H	FF43 EL751-09	A	N	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-CA- H436	1SNB.H	FF43 EL752-06	A	N	N
1-MCA-CA- H437	2SNB.H	FF43 EL753-00	A	N	N
1-MCA-CA- H456	1SNB.H	EE43 EL758-00	A	N	N
1-MCA-CA- H458	1SNB.H	EE43 EL759-06	A	N	N
1-MCA-CA- H460	1SNB.H	DD44 EL757-06	A	N	N
1-MCA-CA- H465	1SNB.H	EE44 EL759-06	A	N	N
1-MCA-CA- H468	1SNB.H	EE44 EL759-06	A	N	N
1-MCA-CA- H470	2SNB.H	EE44 EL759-06	A	N	N
1-MCA-CA- H471	1SNB.H	EE44 EL759-06	A	N	N
1-MCA-CA- H473	1SNB.H	FF44 EL758-00	A	N	N
1-MCA-CA- H474	1SNB.H	FF44 EL757-06	A	N	N
1-MCA-CA- H475	1SNB.H	FF44 EL752-09	A	N	N
1-MCA-CF- H110	1SNB.H	AA47 EL770-06	A	N	N
1-MCA-CF- H112	2SNB.H	AA47 EL770-06	A	N	N
1-MCA-CF- H114	2SNB.H	AA47 EL770-06	A	N	N
1-MCA-CF- H116	2SNB.H	AA47 EL770-06	A	N	N
1-MCA-CF- H124	1SNB.H	BB45 EL770-06	A	N	N
1-MCA-CF- H128	1SNB.H	BB49 EL786-00	A	N	N
1-MCA-CF- H136	1SNB.H	AA49 EL786-00	A	N	N
1-MCA-CF- H140	1SNB.H	BB52 EL786-00	A	N	N
1-MCA-CF- H142	1SNB.H	DD52 EL786-00	A	N	N
1-MCA-CF- H150	2SNB.H	DD43 EL753-00	A	N	N
1-MCA-CF- H151	2SNB.H	EE43 EL753-00	A	N	N
1-MCA-CF- H152	2SNB.H	EE43 EL753-00	A	N	N
1-MCA-CF- H154	1SNB.H	FF43 EL753-00	A	N	N
1-MCA-CF- H157	1SNB.H	GG43 EL753-00	A	N	N
1-MCA-CF- H162	1SNB.H	DD45 EL770-06	A	N	N
MCA-CF- H169	2SNB.H	DD44 EL753-00	A	N	N
1-MCA-CF- H171	1SNB.H	EE44 EL753-00	A	N	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-CF- H173	1SNB.H	EE44 EL753-00	A	N	N
1-MCA-CF- H177	1SNB.H	DD52 EL786-00	A	N	N
1-MCA-CF- H184	2SNB.H	DD53 EL753-00	A	N	N
1-MCA-CF- H185	1SNB.H	EE53 EL753-00	A	N	N
1-MCA-CF- H187	1SNB.H	EE53 EL753-00	A	N	N
1-MCA-CF- H190	1SNB.H	EE52 EL785-00	A	N	
1-MCA-CF- H199	2SNB.H	DD53 EL753-00	A	N	N
1-MCA-CF- H200	2SNB.H	DD53 EL753-00	A	N	N
1-MCA-CF- H201	2SNB.H	EE53 EL753-00	A	N	N
1-MCA-CF- H203	2SNB.H	EE53 EL753-00	A	N	N
1-MCA-CF- H204	1SNB.H	GG53 EL753-00	A	N	N
1-MCA-CF- H206	2SNB.H	GG53 EL753-00	A	N	N
1-MCA-CF- H208	1SNB.H	GG52 EL753-00	A	N	N
1-MCA-CF- H286	1SNB.H	DD44 EL766-08	A	N	N
1-MCA-CF- H303	1SNB.H	EE53 EL758-00	A	N	N
1-MCA-CF- H304	1SNB.H	FF43 EL754-06	A	N	N
1-MCA-CF- H306	1SNB.H	FF43 EL755-00	A	N	N
1-MCA-CF- H307	1SNB.H	FF43 EL755-00	A	N	N
1-MCA-CF- H310	1SNB.H	EE44 EL755-03	A	N	N
1-MCA-CF- H312	1SNB.H	EE44 EL755-03	A	N	N
1-MCA-CF- H313	1SNB.H	FF53 EL754-09	A	N	N
1-MCA-CF- H315	1SNB.H	FF53 EL755-03	A	N	N
1-MCA-CF- H318	1SNB.H	EE53 EL755-03	A	N	N
1-MCA-FW- H087	1SNB.H	JJ50 EL762-06	A	N	N
1-MCA-FW- H108	1SNB.H	KK53 EL760-06	A	N	N
1-MCA-FW- H110	1SNB.H	KK53 EL727-03	I	N	N
1-MCA-FW- H116	2SNB.H	KK52 EL728-04	I	N	N
1-MCA-FW- H118	1SNB.H	KK53 EL724-00	I	N	N
1-MCA-FW- H120	1SNB.H	JJ53 EL724-00	I	N	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-FW- H121	1SNB.H	HH53 EL713-03	I	N	N
1-MCA-FW- H122	1SNB.H	HH53 EL697-06	I	N	N
1-MCA-FW- H123	1SNB.H	HH54 EL697-06	I	N	N
1-MCA-FW- H125	1SNB.H	HH56 EL697-06	I	N	N
1-MCA-FW- H126	1SNB.H	JJ50 EL762-04	A	N	N
1-MCA-FW- H134	2SNB.H	KK53 EL728-04	I	N	N
1-MCA-FW- H136	1SNB.H	KK52 EL759-00	A	N	N
1-MCA-FW- H148	1SNB.H	KK53 EL736-00	I	N	N
1-MCA-FW- H149	1SNB.H	KK53 EL736-06	I	N	N
1-MCA-FW- H160	2SNB.H	JJ50 EL759-11	I	Y	N
1-MCA-FW- H162	1SNB.H	JJ50 EL758-01	I	Y	N
1-MCA-KC- H457	2SNB.H	HH55 EL733-00	A	N	N
1-MCA-KC- H457A	1SNB.H	HH55 EL733-00	A	N	N
1-MCA-KC- H458	2SNB.H	HH56 EL733-00	A	N	N
1-MCA-KC- H458A	1SNB.H	HH56 EL733-00	A	N	N
1-MCA-KC- H459	2SNB.H	HH57 EL733-00	A	N	N
1-MCA-KC- H459A	1SNB.H	HH57 EL733-00	A	N	N
1-MCA-KC- H460	2SNB.H	HH57 EL733-00	A	N	N
1-MCA-KC- H460A	1SNB.H	HH57 EL733-00	A	N	N
1-MCA-KC-1066	1SNB.H	HH55 EL757-08	A	N	N
1-MCA-KC-1068	1SNB.H	JJ58 EL755-10	A	N	N
1-MCA-KC-1076	1SNB.H	HH54 EL747-09	A	N	N
1-MCA-KC-1097	1SNB.H	GG57 EL742-00	A	N	N
1-MCA-KC-1102	1SNB.H	KK56 EL717-11	I	N	N
1-MCA-KC-1106	1SNB.H	HH56 EL757-05	A	N	N
1-MCA-KC-1110	1SNB.H	KK55 EL760-10	A	N	N
1-MCA-KC-1313	1SNB.H	MM52 EL760-10	A	N	N
1-MCA-KC-2137	1SNB.H	GG57 EL740-07	A	N	N
1-MCA-KD-0052	1SNB.H	AA42 EL747-09	A	N	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-KD-0062	1SNB.H	BB42 EL747-09	A	N	N
1-MCA-KC-0074	1SNB.H	AA41 EL740-00	A	N	N
1-MCA-KD-0083	1SNB.H	AA42 EL743-07	A	N	N
1-MCA-KD-0084	1SNB.H	AA42 EL741-07	A	N	N
1-MCA-KD-0095	1SNB.H	AA41 EL737-04	A	N	N
1-MCA-KD-0099	1SNB.H	AA42 EL744-10	A	N	N
1-MCA-KD-0104	1SNB.H	BB41 EL739-10	A	N	N
1-MCA-KD-0113	1SNB.H	BB42 EL743-07	A	N	N
1-MCA-KD-0114	1SNB.H	BB42 EL741-08	A	N	N
1-MCA-KD-0119	1SNB.H	BB42 EL737-06	A	N	N
1-MCA-KD-0125	1SNB.H	BB41 EL737-04	A	N	N
1-MCA-KD-0128	1SNB.H	BB41 EL744-10	A	N	N
1-MCA-KD-0163	1SNB.H	AA42 EL743-07	A	N	N
1-MCA-KD-0173	1SNB.H	BB42 EL743-07	A	N	N
1-MCA-KF- H451	1SNB.H	LL51 EL756-00	A	N	N
1-MCA-KF-2093	1SNB.H	PP51 EL759-03	A	N	N
1-MCA-KF-2097	1SNB.H	PP52 EL760-09	A	N	N
1-MCA-KF-2102	1SNB.H	NN52 EL755-06	A	N	N
1-MCA-KR-1021	2SNB.H	LL55 EL776-00	A	N	N
1-MCA-KR-2079	1SNB.H	EE54 EL732-03	A	N	N
1-MCA-LD-0053	1SNB.H	AA42 EL734-08	A	N	N
1-MCA-LD-0063	1SNB.H	BB42 EL734-09	A	N	N
1-MCA-LD-0077	1SNB.H	AA43 EL737-00	A	N	N
1-MCA-LD-0078	1SNB.H	AA43 EL737-11	A	N	N
1-MCA-LD-0087	1SNB.H	AA43 EL744-12	A	N	N
1-MCA-LD-0107	1SNB.H	BB43 EL737-00	A	N	N
1-MCA-LD-0108	1SNB.H	BB43 EL737-11	A	N	N
1-MCA-LD-0112	1SNB.H	BB43 EL742-12	A	N	N
1-MCA-NB- H484	1SNB.H	NN51 EL742-03	A	N	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-NB- H486	1SNB.H	NN51 EL742-03	A	N	N
1-MCA-NB- H491	1SNB.H	NN51 EL742-03	A	N	N
1-MCA-NB- H493	1SNB.H	NN51 EL742-03	A	N	N
1-MCA-NB-1015	2SNB.H	NN56 EL742-06	I	N	N
1-MCA-NB-1033	1SNB.H	PP56 EL737-08	I	N	N
1-MCA-NB-1038	1SNB.H	PP56 EL742-06	I	Y	N
1-MCA-NB-1102	1SNB.H	NN59 EL729-00	A	N	N
1-MCA-NB-1196	1SNB.H	NN56 EL720-00	I	N	N
1-MCA-NB-1224	1SNB.H	NN56 EL719-06	I	N	N
1-MCA-NB-1244	1SNB.H	NN53 EL744-03	I	Y	N
1-MCA-NB-1372	1SNB.H	MM51 EL740-03	I	N	N
1-MCA-NB-1505	1SNB.H	PP59 EL726-09	I	N	N
1-MCA-NB-1506	2SNB.H	NN57 EL726-09	I	N	N
1-MCA-NB-1509	1SNB.H	PP61 EL726-09	I	N	N
1-MCA-NB-1539	1SNB.H	NN57 EL717-01	I	N	N
1-MCA-NB-1542	1SNB.H	PP57 EL717-01	I	N	N
1-MCA-NB-1560	1SNB.H	NN57 EL744-06	A	N	N
1-MCA-NB-1565	1SNB.H	QQ59 EL721-09	I	N	N
1-MCA-NB-1566	1SNB.H	QQ59 EL721-05	I	N	N
1-MCA-NB-1589	1SNB.H	QQ56 EL726-00	I	N	N
1-MCA-NB-2132	1SNB.H	NN56 EL743-06	I	N	N
1-MCA-NB-2306	1SNB.H	NN51 EL731-01	I	Y	N
1-MCA-NB-2310	1SNB.H	NN53 EL744-00	I	N	N
1-MCA-NB-2313	1SNB.H	NN53 EL744-00	I	N	N
1-MCA-NB-2317	1SNB.H	NN55 EL744-00	I	N	N
1-MCA-NB-2383	2SNB.H	PP56 EL745-06	I	N	N
1-MCA-NB-2384	1SNB.H	PP56 EL745-06	I	N	N
1-MCA-NB-2389	2SNB.H	PP56 EL739-04	I	N	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
#-1-MCA-NB-2391	1SNB.H	PP56 EL742-06	I	N	N
1-MCA-NC- H053	1SNB.H	DD52 EL737-03	I	Y	N
1-MCA-NC- H056	1SNB.H	FF52 EL744-06	I	Y	N
1-MCA-NC- H068	1SNB.H	HH53 EL710-06	I	Y	N
1-MCA-NC- H070	1SNB.H	GG53 EL724-00	I	Y	N
1-MCA-NC- H074	1SNB.H	EE53 EL725-08	I	Y	N
1-MCA-ND- H175	1SNB.H	HH53 EL726-07	I	Y	N
1-MCA-ND- H178	1SNB.H	HH53 EL726-09	I	Y	N
1-MCA-ND- H179	1SNB.H	HH53 EL735-02	I	Y	N
1-MCA-ND- H181	1SNB.H	HH52 EL733-03	I	Y	N
1-MCA-ND- H246	2SNB.H	GG53 EL696-09	A	N	N
1-MCA-ND- H247	1SNB.H	GG53 EL696-09	A	N	N
1-MCA-ND- H248	1SNB.H	GG53 EL696-09	A	N	N
1-MCA-ND- H249	1SNB.H	FF53 EL696-09	A	N	N
1-MCA-ND- H250	1SNB.H	GG53 EL708-00	A	N	N
1-MCA-ND- H252	1SNB.H	HH53 EL706-00	I	Y	N
1-MCA-ND- H253	1SNB.H	HH53 EL706-00	I	Y	N
1-MCA-ND- H254	2SNB.H	HH53 EL708-00	I	Y	N
1-MCA-ND- H255	2SNB.H	HH54 EL708-00	I	Y	N
1-MCA-ND- H256	1SNB.H	HH54 EL706-00	I	Y	N
1-MCA-ND- H257	2SNB.H	HH55 EL708-00	I	Y	N
1-MCA-ND- H258	1SNB.H	GG53 EL726-00	I	Y	N
1-MCA-ND- H270	1SNB.H	MM52 EL755-09	I	N	N
1-MCA-ND- H271	1SNB.H	LL52 EL757-09	I	N	N
1-MCA-ND- H272	1SNB.H	HH52 EL734-03	I	Y	N
1-MCA-ND- H273	1SNB.H	JJ51 EL744-00	I	Y	N

#-Exempted from periodic functional testing.

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-ND- H274	2SNB.H	JJ52 EL742-06	I	Y	N
1-MCA-ND- H275	1SNB.H	HH52 EL741-00	I	Y	N
1-MCA-ND- H277	1SNB.H	HH52 EL741-00	I	Y	N
1-MCA-ND- H281	2SNB.H	KK52 EL743-08	I	Y	N
1-MCA-ND- H282	1SNB.H	KK52 EL738-03	I	N	N
1-MCA-ND- H286	1SNB.H	LL51 EL744-00	I	N	N
1-MCA-ND- H287	1SNB.H	LL51 EL744-00	I	N	N
1-MCA-ND- H289	1SNB.H	LL51 EL739-00	I	N	N
1-MCA-ND- H290	1SNB.H	LL52 EL742-06	I	N	N
1-MCA-ND- H296	1SNB.H	MM52 EL735-06	I	N	N
1-MCA-ND- H297	1SNB.H	MM52 EL742-06	I	N	N
1-MCA-ND- H298	1SNB.H	MM52 EL744-06	I	N	N
1-MCA-ND- H301	1SNB.H	HH53 EL715-11	I	Y	N
1-MCA-ND- H304	1SNB.H	HH53 EL728-07	I	Y	N
1-MCA-ND- H315	1SNB.H	KK51 EL744-10	I	N	N
1-MCA-ND- H321	1SNB.H	HH53 EL747-07	I	N	N
1-MCA-NI- H009	1SNB.H	HH53 EL723-07	I	Y	N
1-MCA-NI- H010	1SNB.H	HH53 EL719-00	I	Y	N
1-MCA-NI- H012	1SNB.H	GG53 EL724-06	I	Y	N
1-MCA-NI- H083	1ANB.H	JJ53 EL724-06	I	Y	N
1-MCA-NI- H249	1SNB.H	JJ53 EL725-03	I	Y	N
1-MCA-NI- H253	2SNB.H	HH53 EL724-06	I	Y	N
1-MCA-NI- H255	1SNB.H	HH53 EL724-06	I	Y	N
1-MCA-NI- H286	1SNB.H	JJ51 EL742-06	I	Y	N
1-MCA-NI- H315	1SNB.H	HH52 EL761-00	A	N	N
1-MCA-NI- H352	1SNB.H	JJ54 EL728-00	I	N	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
#-1-MCA-NI- H355	2SNB.H	FF53 EL716-00	I	Y	N
1-MCA-NS- H052	1SNB.H	JJ51 EL742-06	I	Y	N
1-MCA-NS- H053	1SNB.H	JJ52 EL744-00	I	Y	N
1-MCA-NS- H060	1SNB.H	JJ51 EL762-06	A	Y	N
1-MCA-NS- H061	1SNB.H	JJ51 EL759-09	I	Y	N
1-MCA-NS- H073	2SNB.H	JJ52 EL757-06	I	Y	N
1-MCA-NS- H085	2SNB.H	HH54 EL699-00	I	Y	N
1-MCA-NS- H088	1SNB.H	JJ53 EL722-00	I	Y	N
1-MCA-NS- H091	2SNB.H	KK52 EL734-06	I	Y	N
1-MCA-NS- H098	2SNB.H	HH53 EL716-06	I	Y	N
1-MCA-NS- H101	1SNB.H	HH52 EL734-00	I	Y	N
1-MCA-NS- H102	1SNB.H	HH53 EL728-03	I	Y	N
1-MCA-NS- H105	2SNB.H	GG54 EL704-02	I	N	N
1-MCA-NS- H106	2SNB.H	GG56 EL704-03	A	N	N
1-MCA-NV- H303	1SNB.H	JJ53 EL724-06	I	Y	N
1-MCA-NV- H306	1SNB.H	KK55 EL724-00	I	N	N
1-MCA-NV- H374	2SNB.H	GG52 EL745-06	I	Y	N
1-MCA-NV- H396	1SNB.H	GG52 EL745-06	I	Y	N
1-MCA-NV- H433	1SNB.H	JJ52 EL728-00	I	Y	N
1-MCA-NV- H435	1SNB.H	HH52 EL724-00	I	Y	N
#-1-MCA-NV- H441	1SNB.H	JJ52 EL744-06	I	Y	N
1-MCA-NV- H450	1SNB.H	JJ55 EL726-00	I	N	N
1-MCA-NV- H457	1SNB.H	JJ56 EL724-00	I	N	N
1-MCA-NV- H464	1SNB.H	JJ54 EL726-00	I	N	N
1-MCA-NV- H467	1SNB.H	HH52 EL724-00	I	Y	N
1-MCA-NV- H471	1SNB.H	JJ55 EL726-00	I	N	N

#-Exempted from periodic functional testing.

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-NV- H498	1SNB.H	JJ54 EL725-00	I	N	N
1-MCA-NV- H5522	1SNB.H	LL54 EL752-08	I	N	N
1-MCA-NV- H5542	1SNB.H	HH52 EL745-06	I	Y	N
1-MCA-NV- H5555	1SNB.H	GG53 EL742-09	I	Y	N
1-MCA-NV- H5556	1SNB.H	JJ55 EL725-00	I	Y	N
1-MCA-RN- H997	1SNB.H	LL51 EL756-03	A	N	N
1-MCA-RN-1104	1SNB.H	BB44 EL735-10	A	N	N
1-MCA-RN-1300	1SNB.H	GG55 EL727-08	A	N	N
1-MCA-RN-1310	1SNB.H	DD54 EL732-00	A	N	N
1-MCA-RN-2335	1SNB.H	HH53 EL754-06	I	Y	N
1-MCA-RN-2336	1SNB.H	HH53 EL755-00	I	Y	N
1-MCA-RN-2358	1SNB.H	JJ55 EL725-00	I	N	N
1-MCA-RN-2429	1SNB.H	EE56 EL724-06	A	N	N
1-MCA-RN-2445	2SNB.H	KK52 EL744-00	I	N	N
1-MCA-RN-2466	1SNB.H	FF53 EL735-06	I	Y	N
1-MCA-RN-2471	1SNB.H	EE53 EL735-06	I	Y	N
1-MCA-RN-2582	1SNB.H	GG56 EL741-06	A	N	N
1-MCA-RN-2583	1SNB.H	GG56 EL741-06	A	N	N
1-MCA-RV- H123	1SNB.H	EE52 EL745-03	I	Y	N
1-MCA-RV- H126	1SNB.H	DD53 EL742-06	I	Y	N
1-MCA-RV- H128	1SNB.H	FF53 EL744-03	I	Y	N
1-MCA-RV- H144	2SNB.H	LL52 EL773-09	A	N	N
1-MCA-RV- H162	1SNB.H	LL52 EL773-09	A	N	N
1-MCA-RV- H164	1SNB.H	LL52 EL773-09	A	N	N
1-MCA-RV- H165	2SNB.H	LL52 EL773-09	A	N	N
1-MCA-SM- H011	1SNB.H	FF44 EL760-06	A	N	N
1-MCA-SM- H012	1SNB.H	FF44 EL760-06	A	N	N
1-MCA-SM- H016	2SNB.H	FF43 EL760-06	A	N	N
1-MCA-SM- H018	1SNB.H	GG43 EL766-04	A	N	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-SM- H019	2SNB.H	GG43 EL767-07	A	N	N
1-MCA-SM- H020	2SNB.H	GG43 EL783-00	A	N	N
1-MCA-SM- H024	2SNB.H	FF43 EL788-00	A	N	N
1-MCA-SM- H031	1SNB.H	BB41 EL777-10	A	N	N
1-MCA-SM- H032	1SNB.H	BB41 EL777-09	A	N	N
1-MCA-SM- H034	1SNB.H	AA40 EL774-11	A	N	N
1-MCA-SM- H035	1SNB.H	AA40 EL774-11	A	N	N
1-MCA-SM- H056	1SNB.H	AA44 EL774-12	A	N	N
1-MCA-SM- H058	2SNB.H	AA46 EL775-00	A	N	N
1-MCA-SM- H059	2SNB.H	AA46 EL775-00	A	N	N
1-MCA-SM- H061	2SNB.H	AA49 EL788-00	A	N	N
1-MCA-SM- H064	2SNB.H	BB59 EL788-00	A	N	N
1-MCA-SM- H069	2SNB.H	FF53 EL788-00	A	N	N
1-MCA-SM- H073	1SNB.H	GG53 EL783-00	A	N	N
1-MCA-SM- H074	1SNB.H	GG53 EL767-07	A	N	N
1-MCA-SM- H075	2SNB.H	GG53 EL767-07	A	N	N
1-MCA-SM- H077	2SNB.H	FF53 EL760-07	A	N	N
1-MCA-SM- H100	2SNB.H	FF44 EL760-07	A	N	N
1-MCA-SM- H102	1SNB.H	GG44 EL766-04	A	N	N
1-MCA-SM- H103	2SNB.H	GG44 EL767-07	A	N	N
1-MCA-SM- H104	1SNB.H	GG44 EL783-00	A	N	N
1-MCA-SM- H108	2SNB.H	FF44 EL788-00	A	N	N
1-MCA-SM- H115	1SNB.H	BB42 EL778-10	A	N	N
1-MCA-SM- H116	1SNB.H	BB42 EL778-10	A	N	N
1-MCA-SM- H118	1SNB.H	AA40 EL774-11	A	N	N
1-MCA-SM- H119	1SNB.H	AA40 EL744-11	A	N	N
1-MCA-SM- H128	1SNB.H	AA45 EL774-12	A	N	N
1-MCA-SM- H130	2SNB.H	AA46 EL775-00	A	N	N
1-MCA-SM- H131	2SNB.H	AA46 EL775-00	A	N	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-SM- H133	2SNB.H	AA49 EL788-00	A	N	N
1-MCA-SM- H136	2SNB.H	BB53 EL788-00	A	N	N
1-MCA-SM- H141	2SNB.H	FF53 EL788-00	A	N	N
1-MCA-SM- H145	2SNB.H	GG53 EL783-00	A	N	N
1-MCA-SM- H146	1SNB.H	FF53 EL766-01	A	N	N
1-MCA-SM- H147	2SNB.H	GG53 EL767-07	A	N	N
1-MCA-SM- H149	2SNB.H	FF53 EL760-06	A	N	N
1-MCA-SM- H152	1SNB.H	FF52 EL760-06	A	N	N
1-MCA-SM- H153	1SNB.H	FF52 EL760-06	A	N	N
1-MCA-SM- H174	1SNB.H	FF52 EL760-07	A	N	N
1-MCA-SM- H175	1SNB.H	FF44 EL760-07	A	N	N
1-MCA-SM- H182	1SNB.H	DD43 EL795-06	A	N	N
1-MCA-SM- H183	1SNB.H	DD53 EL795-06	A	N	N
1-MCA-SM- H184	1SNB.H	DD53 EL795-06	A	N	N
1-MCA-SM- H185	1SNB.H	DD43 EL795-06	A	N	N
1-MCA-SM- H188	1SNB.H	DD53 EL783-06	A	N	N
1-MCA-SM- H192	1SNB.H	DD53 EL783-06	A	N	N
1-MCA-SM- H196	1SNB.H	DD43 EL783-06	A	N	N
1-MCA-SM- H200	1SNB.H	DD44 EL783-06	A	N	N
1-MCA-SV- H017	1SNB.H	FF53 EL794-00	A	N	N
1-MCA-TE- H013	1SNB.H	EE52 EL775-08	A	N	N
1-MCA-TE- H017	1SNB.H	BB51 EL721-11	A	N	N
1-MCA-TE- H018	1SNB.H	BB51 EL723-00	A	N	N
1-MCA-VN- H011	1SNB.H	DD42 EL747-07	A	N	N
1-MCA-VN- H012	2SNB.H	BB41 EL747-07	A	N	N
1-MCA-VN- H013	1SNB.H	BB41 EL474-07	A	N	N
1-MCA-VN- H021	1SNB.H	AA42 EL747-06	A	N	N
1-MCA-VN- H022	2SNB.H	AA41 EL747-07	A	N	N
1-MCA-VN- H023	1SNB.H	AA41 EL747-07	A	N	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-VN- H036	1SNB.H	DD40 EL751-08	A	N	N
1-MCA-VN- H038	1SNB.H	BB40 EL751-08	A	N	N
1-MCA-VQ- H010	1SNB.H	KK50 EL771-07	A	N	N
1-MCA-YA- H004	1SNB.H	EE53 EL759-06	A	N	N
1-MCA-YC-0017	1SNB.H	EE57 EL779-08	A	N	N
1-MCA-YC-0029	1SNB.H	FF58 EL779-09	A	N	N
1-MCA-YC-0033	1SNB.H	FF58 EL776-00	A	N	N
1-MCA-YC-0079	1SNB.H	FF57 EL774-09	A	N	N
1-MCA-YC-0109	1SNB.H	FF57 EL779-06	A	N	N
1-MCA-YC-0118	1SNB.H	GG57 EL776-00	A	N	N
1-MCA-ZD- H001	1SNB.H	BB41 EL744-06	A	N	N
1-MCA-ZD- H014	1SNB.H	BB41 EL746-04	A	N	N
1-MCR-BB-0510	1SNB.H	C 192 45-09 729-06	I	Y	N
1-MCR-BB-0515	1SNB.H	C 183 48-09 731-07	I	Y	N
1-MCR-BB-0521	1SNB.H	C 189 48-03 729-11	I	Y	N
1-MCR-BB-0537	1SNB.H	B 146 57-00 735-04	I	Y	N
1-MCR-BB-0567	1SNB.H	A 031 57-00 735-00	I	Y	N
1-MCR-BB-0568	1SNB.H	A 031 57-00 734-08	I	Y	N
1-MCR-BB-0576	1SNB.H	A 024 39-00 745-06	I	Y	N
1-MCR-BB-0585	1SNB.H	A 024 39-00 748-08	I	Y	N
1-MCR-BB-0587	1SNB.H	A 024 39-00 748-08	I	Y	N
1-MCR-BB-0589	1SNB.H	A 024 39-00 748-08	I	Y	N
1-MCR-BB-0590	1SNB.H	A 024 33-00 748-08	I	Y	N
1-MCR-BB-0614	1SNB.H	B 148 56-05 729-09	I	Y	N
1-MCR-BB-0617	1SNB.H	B 135 55-06 726-00	I	Y	N
1-MCR-BB-0619	1SNB.H	B 135 52-06 725-06	I	Y	N
1-MCR-BB-0645	1SNB.H	D 357 57-00 733-00	I	Y	N
1-MCR-BB-0651	1SNB.H	D 354 41-06 733-10	I	Y	N
1-MCR-BB-0662	1SNB.H	D 354 40-09 748-01	I	Y	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-BB-0663	1SNB.H	D 354 40-09 745-11	I	Y	N
1-MCR-BB-0665	1SNB.H	D 354 40-09 745-11	I	Y	N
1-MCR-BB-0666	1SNB.H	D 354 40-09 744-11	I	Y	N
1-MCR-BB-0701	1SNB.H	C 201 30-10 745-08	I	Y	N
1-MCR-BB-0709	1SNB.H	C 201 30-10 745-08	I	Y	N
1-MCR-BB-0710	1SNB.H	C 201 30-10 748-08	I	Y	N
1-MCR-BB-0713	1SNB.H	C 201 30-10 748-08	I	Y	N
1-MCR-BB-0714	1SNB.H	C 201 30-10 748-08	I	Y	N
1-NCR-CA- H382	1SNB.H	B 106 22-05 773-08	I	Y	N
1-MCR-CA- H388	1SNB.H	C 190 40-06 766-10	I	Y	N
1-MCR-CA- H389	1SNB.H	C 182 40-02 766-11	I	Y	N
1-MCR-CA- H391	1SNB.H	C 251 21-08 773-08	I	N	N
1-MCR-CA- H394	1SNB.H	C 180 32-00 769-06	I	Y	N
1-MCR-CA- H396	1SNB.H	B 113 22-05 773-08	I	N	N
1-MCR-CA- H443	1SNB.H	D 359 40-02 766-09	I	Y	N
1-MCR-CA- H445	1SNB.H	A 001 31-06 769-08	I	Y	N
1-MCR-CA- H447	1SNB.H	D 289 21-08 773-06	I	Y	N
1-MCR-CA- H487	1SNB.H	A 002 29-09 769-07	I	Y	N
1-MCR-CA- H490	1SNB.H	A 024 22-05 773-06	I	Y	N
1-MCR-CF- H159	2SNB.H	D 339 40-04 745-08	I	Y	N
1-MCR-CF- H160	1SNB.H	D 340 40-05 753-00	I	Y	N
1-MCR-CF- H189	1SNB.H	D 340 40-09 753-03	I	Y	N
1-MCR-CF- H210	1SNB.H	C 249 40-03 753-00	I	Y	N
1-MCR-CF- H302	2SNB.H	C 249 40-03 745-08	I	Y	N
1-MCR-KC-0538	1SNB.H	B 105 47-01 730-07	A	N	N
1-MCR-KC-0539	1SNB.H	B 111 49-02 730-00	I	Y	N
1-MCR-KC-0543	1SNB.H	A 054 50-09 729-00	A	N	N
1-MCR-KC-0544	1SNB.H	A 059 50-06 729-00	A	N	N
1-MCR-KC-0546	1SNB.H	A 069 48-00 729-01	A	N	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-KC-0573	1SNB.H	A 066 51-08 727-06	I	Y	N
1-MCR-KC-0574	1SNB.H	A 055 53-06 728-06	I	Y	N
1-MCR-KC-0580	1SNB.H	C 247 53-06 727-06	I	Y	N
1-MCR-KC-0661	1SNB.H	A 062 38-04 741-03	I	Y	N
1-MCR-KC-0818	1SNB.H	A 062 38-04 741-00	I	Y	N
1-MCR-KC-0827	1SNB.H	B 134 38-00 740-10	I	Y	N
1-MCR-KC-0828	1SNB.H	B 134 38-00 741-01	I	Y	N
1-MCR-KC-0870	1SNB.H	D 304 29-00 733-08	I	Y	N
1-MCR-KC-0871	1SNB.H	D 304 29-00 733-10	I	Y	N
1-MCR-KC-0880	1SNB.H	D 308 53-03 729-03	I	Y	N
#-1-MCR-NC-SG-A	1SNB.H	A 022 31-05 777-08	I	Y	N
#-1-MCR-NC-SG-B	2SNB.H	B 158 31-05 777-08	I	Y	N
#-1-MCR-NC-SG-C	2SNB.H	C 202 31-05 777-08	I	Y	N
#-1-MCR-NC-SG-D	2SNB.H	D 338 31-05 777-08	I	Y	N
1-MCR-NC-0502	1SNB.H	B 116 37-08 746-09	I	Y	N
1-MCR-NC-0546	1SNB.H	B 096 36-11 759-08	I	Y	N
1-MCR-NC-0549	1SNB.H	B 105 32-00 749-00	I	Y	N
1-MCR-NC-0551	1SNB.H	A 066 25-10 737-00	I	Y	N
1-MCR-NC-0554	1SNB.H	A 076 24-03 743-00	I	Y	N
1-MCR-NC-0557	1SNB.H	B 090 25-09 743-00	I	Y	N
1-MCR-NC-0559	1SNB.H	B 104 24-03 743-00	I	Y	N
1-MCR-NC-0561	1SNB.H	B 104 24-03 743-00	I	Y	N
1-MCR-NC-0562	1SNB.H	B 111 25-06 738-00	I	Y	N
1-MCR-NC-0564	1SNB.H	B 114 25-10 737-00	I	Y	N
1-MCR-NC-0565	1SNB.H	B 096 34-11 750-00	I	Y	N
1-MCR-NC-0570	1SNB.H	A 054 32-07 727-08	I	Y	N

#-Exempted from periodic functional testing.

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-NC-0571	1SNB.H	A 054 32-07 727-08	I	Y	N
1-MCR-NC-0574	1SNB.H	D 308 30-04 727-08	I	Y	N
1-MCR-NC-0576	1SNB.H	B 128 32-01 734-00	I	Y	N
1-MCR-NC-0586	1SNB.H	A 038 37-09 734-06	I	Y	N
1-MCR-NC-0588	1SNB.H	A 036 38-06 736-01	I	Y	N
1-MCR-NC-0589	1SNB.H	A 034 39-09 743-03	I	Y	N
1-MCR-NC-0590	1SNB.H	A 034 39-09 743-01	I	Y	N
1-MCR-NC-0599	1SNB.H	A 051 20-01 742-09	I	Y	N
1-MCR-NC-0603	1SNB.H	A 055 21-09 742-09	I	Y	N
1-MCR-NC-0619	1SNB.H	D 321 40-02 743-11	I	Y	N
1-MCR-NC-0621	1SNB.H	D 308 40-02 735-11	I	Y	N
1-MCR-NC-0625	1SNB.H	D 319 33-10 744-03	I	Y	N
1-MCR-NC-0626	1SNB.H	D 312 29-08 742-09	I	Y	N
1-MCR-NC-0633	1SNB.H	D 341 19-02 742-09	I	Y	N
1-MCR-NC-0687	1SNB.H	B 102 40-00 804-02	I	Y	N
1-MCR-NC-0691	1SNB.H	C 202 19-11 742-09	I	Y	N
1-MCR-NC-0692	1SNB.H	C 202 19-11 742-09	I	Y	N
1-MCR-NC-0694	1SNB.H	C 202 19-11 742-09	I	Y	N
1-MCR-NC-0696	1SNB.H	C 204 19-11 742-09	I	Y	N
1-MCR-NC-0699	1SNB.H	C 230 28-10 742-09	I	Y	N
1-MCR-NC-0701	1SNB.H	C 220 33-09 743-08	I	Y	N
1-MCR-NC-0702	1SNB.H	C 220 33-09 744-01	I	Y	N
1-MCR-NC-0705	1SNB.H	C 217 37-11 734-06	I	Y	N
1-MCR-NC-0707	1SNB.H	C 215 40-00 735-09	I	Y	N
1-MCR-NC-0710	1SNB.H	C 228 29-06 744-10	I	Y	N
1-MCR-NC-0711	1SNB.H	C 230 28-08 744-10	I	Y	N
1-MCR-NC-0715	1SNB.H	B 123 27-03 743-02	I	Y	N
1-MCR-NC-0716	1SNB.H	B 123 27-03 743-02	I	Y	N
1-MCR-NC-0718	1SNB.H	B 131 30-04 743-02	I	Y	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-NC-0724	1SNB.H	B 145 37-07 734-06	I	Y	N
1-MCR-NC-0725	1SNB.H	B 142 32-03 742-09	I	Y	N
1-MCR-NC-0730	1SNB.H	B 138 20-10 742-09	I	Y	N
1-MCR-NC-0769	1SNB.H	B 100 36-03 810-09	I	Y	N
1-MCR-NC-0770	1SNB.H	B 100 36-03 810-09	I	Y	N
1-MCR-NC-0801	1SNB.H	C 242 31-02 742-09	I	Y	N
1-MCR-NC-0803	1SNB.H	B 091 33-00 740-01	I	Y	N
1-MCR-NC-0807	1SNB.H	C 228 23-00 739-01	I	Y	N
1-MCR-NC-0808	1SNB.H	C 228 23-00 739-06	I	Y	N
1-MCR-NC-0809	1SNB.H	C 288 25-01 736-09	I	Y	N
1-MCR-NC-0811	1SNB.H	C 230 33-10 728-03	I	Y	N
1-MCR-NC-0813	1SNB.H	C 227 38-00 729-10	I	Y	N
1-MCR-NC-0900	1SNB.H	D 308 41-01 736-06	I	Y	N
1-MCR-NC-0902	1SNB.H	D 301 27-02 735-09	I	Y	N
1-MCR-NC-0903	1SNB.H	D 301 27-02 735-09	I	Y	N
1-MCR-NI-0510	1SNB.H	A 083 55-01 731-00	I	Y	N
1-MCR-NI-0515	1SNB.H	A 068 35-08 734-06	I	Y	N
1-MCR-NI-0522	1SNB.H	A 044 50-10 733-00	I	Y	N
1-MCR-NI-0526	1SNB.H	B 153 51-02 730-00	I	Y	N
1-MCR-NI-0528	1SNB.H	B 148 40-02 739-00	I	Y	N
1-MCR-NI-0541	1SNB.H	C 206 49-06 735-03	I	Y	N
1-MCR-NI-0548	2SNB.H	C 220 39-02 733-00	I	Y	N
1-MCR-NI-0549	2SNB.H	C 220 39-02 733-00	I	Y	N
1-MCR-NI-0552	1SNB.H	C 247 48-11 733-00	I	Y	N
1-MCR-NI-0569	2SNB.H	D 318 39-01 733-00	I	Y	N
1-MCR-NI-0580	1SNB.H	D 333 40-00 736-06	I	Y	N
1-MCR-NI-0584	1SNB.H	C 204 56-00 731-00	I	Y	N
1-MCR-NI-0587	1SNB.H	C 223 31-06 746-00	I	Y	N
1-MCR-NI-0588	1SNB.H	C 219 36-00 741-00	I	Y	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-NI-0589	1SNB.H	C 212 39-06 743-03	I	Y	N
1-MCR-NI-0604	1SNB.H	C 222 22-03 775-00	I	Y	N
1-MCR-NI-0605	1SNB.H	C 227 21-11 775-00	I	Y	N
1-MCR-NI-0612	1SNB.H	A 064 37-06 735-00	I	Y	N
1-MCR-NI-0613	1SNB.H	A 055 28-03 735-00	I	Y	N
1-MCR-NI-0615	1SNB.H	A 040 41-02 733-00	I	Y	N
1-MCR-NI-0617	2SNB.H	A 037 39-07 73 -09	I	Y	N
1-MCR-NI-0653	1SNB.H	C 187 39-06 742-06	I	Y	N
1-MCR-NI-0658	2SNB.H	B 175 40-00 751-03	I	Y	N
1-MCR-NI-0661	1SNB.H	B 171 33-06 742-00	I	Y	N
1-MCR-NI-0676	1SNB.H	C 202 54-06 732-06	I	Y	N
1-MCR-NI-0699	1SNB.H	A 081 57-00 732-06	I	Y	N
1-MCR-NI-0702	1SNB.H	A 074 50-01 730-00	I	Y	N
1-MCR-NI-0717	1SNB.H	D 334 49-09 730-00	I	Y	N
1-MCR-NI-0719	1SNB.H	C 206 45-06 733-00	I	Y	N
1-MCR-NI-0721	1SNB.H	C 212 45-06 732-06	I	Y	N
1-MCR-NI-0733	1SNB.H	A 007 40-10 758-08	I	Y	N
1-MCR-NI-0744	1SNB.H	D 353 40-10 751-08	I	Y	N
1-MCR-NI-0786	1SNB.H	C 203 46-00 761-03	I	Y	N
1-MCR-NI-0850	1SNB.H	D 297 39-06 737-05	I	Y	N
1-MCR-NI-0852	1SNB.H	D 295 52-06 735-00	I	Y	N
1-MCR-NI-0879	1SNB.H	C 240 37-06 742-09	I	Y	N
1-MCR-NI-0880	1SNB.H	C 238 35-06 742-09	I	Y	N
1-MCR-NI-0895	1SNB.H	C 267 47-03 730-04	I	Y	N
1-MCR-NI-0905	1SNB.H	C 186 37-09 736-05	I	Y	N
1-MCR-NI-0911	1SNB.H	B 140 17-09 742-09	I	Y	N
1-MCR-NI-0912	1SNB.H	B 140 17-09 742-09	I	Y	N
1-MCR-NI-0953	1SNB.H	C 240 47-09 734-09	I	Y	N
1-MCR-NM-0503	1SNB.H	A 013 21-06 753-01	I	Y	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-NM-0555	1SNB.H	B 174 29-01 748-11	I	Y	N
1-MCR-NM-0561	1SNB.H	C 188 38-05 736-03	I	Y	N
1-MCR-NM-0562	1SNB.H	C 188 38-05 736-03	I	Y	N
1-MCR-NM-0565	1SNB.H	C 188 45-00 732-11	I	Y	N
1-MCR-NM-0569	2SNB.H	C 186 45-11 731-09	I	Y	N
1-MCR-NM-0586	1SNB.H	C 218 48-03 732-10	I	Y	N
1-MCR-NM-0603	1SNB.H	C 182 29-00 753-10	I	Y	N
1-MCR-NM-0606	1SNB.H	C 182 36-06 753-03	I	Y	N
1-MCR-NM-0607	1SNB.H	C 192 37-04 753-03	I	Y	N
1-MCR-NM-0608	1SNB.H	C 192 37-04 753-03	I	Y	N
1-MCR-NM-0630	1SNB.H	C 191 45-00 732-03	I	Y	N
1-MCR-NM-0633	1SNB.H	C 213 45-06 735-01	I	Y	N
1-MCR-NM-0634	1SNB.H	C 224 48-06 733-01	I	Y	N
1-MCR-NM-0653	1SNB.H	D 350 22-00 754-02	I	Y	N
1-MCR-NM-0679	1SNB.H	C 227 48-00 731-06	I	Y	N
1-MCR-NM-0680	1SNB.H	C 227 48-00 731-09	I	Y	N
1-MCR-NM-0710	1SNB.H	C 180 20-06 744-01	I	Y	N
1-MCR-NM-0711	1SNB.H	C 180 20-06 744-01	I	Y	N
1-MCR-NM-0715	1SNB.H	C 180 19-02 749-07	I	Y	N
1-MCR-NM-0734	1SNB.H	A 035 18-00 740-08	I	Y	N
1-MCR-NV-0545	1SNB.H	D 302 56-03 727-06	I	Y	N
1-MCR-NV-0548	1SNB.H	D 302 56-00 733-00	I	Y	N
1-MCR-NV-0581	1SNB.H	B 126 57-00 727-06	I	Y	N
1-MCR-NV-0603	2SNB.H	B 116 56-00 735-02	I	Y	N
1-MCR-NV-0629	1SNB.H	A 020 57-00 726-09	I	Y	N
1-MCR-NV-0635	1SNB.H	A 020 57-00 726-09	I	Y	N
1-MCR-NV-0666	1SNB.H	C 244 57-00 726-09	I	Y	N
1-MCR-NV-0679	1SNB.H	C 187 56-03 731-06	I	Y	N
1-MCR-NV-0684	1SNB.H	C 187 56-03 731-06	I	Y	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-NV-0718	1SNB.H	B 108 56-00 734-00	I	Y	N
1-MCR-NV-0729	1SNB.H	C 225 40-02 735-00	I	Y	N
1-MCR-NV-0734	1SNB.H	C 230 46-00 731-00	I	Y	N
1-MCR-NV-0735	1SNB.H	C 230 46-00 730-09	I	Y	N
1-MCR-NV-0738	1SNB.H	C 229 52-06 731-00	I	Y	N
1-MCR-NV-0741	1SNB.H	C 220 52-06 731-00	I	Y	N
1-MCR-NV-0746	1SNB.H	C 221 47-01 734-00	I	Y	N
1-MCR-NV-0747	1SNB.H	C 211 53-11 730-06	I	Y	N
1-MCR-NV-0758	1SNB.H	B 113 52-06 730-08	I	Y	N
1-MCR-NV-0760	1SNB.H	B 112 56-00 732-10	I	Y	N
1-MCR-NV-0761	1SNB.H	B 112 56-00 733-03	I	Y	N
1-MCR-NV-0763	1SNB.H	B 110 53-06 735-03	I	Y	N
1-MCR-NV-0766	1SNB.H	B 109 53-05 738-08	I	Y	N
1-MCR-NV-0791	1SNB.H	C 235 39-08 738-03	I	Y	N
1-MCR-NV-0792	1SNB.H	C 235 39-08 737-11	I	Y	N
1-MCR-NV-0805	1SNB.H	D 313 39-02 745-01	I	Y	N
1-MCR-NV-0807	1SNB.H	D 316 38-04 741-10	I	Y	N
1-MCR-NV-0808	1SNB.H	D 316 38-04 742-03	I	Y	N
1-MCR-NV-0831	1SNB.H	B 144 40-09 742-00	I	Y	N
1-MCR-NV-0840	1SNB.H	A 057 39-10 745-01	I	Y	N
1-MCR-NV-0851	1SNB.H	A 038 39-04 737-10	I	Y	N
1-MCR-NV-0852	1SNB.H	A 032 39-04 738-02	I	Y	N
1-MCR-NV-0855	1SNB.H	A 043 38-04 735-03	I	Y	N
1-MCR-NV-0931	1SNB.H	D 312 30-00 746-00	I	Y	N
1-MCR-NV-0949	1SNB.H	B 132 39-10 739-03	I	Y	N
1-MCR-NV-0953	1SNB.H	B 133 37-08 744-06	I	Y	N
1-MCR-NV-0954	1SNB.H	B 134 32-08 744-06	I	Y	N
1-MCR-NV-0956	1SNB.H	B 129 32-00 745-02	I	Y	N
1-MCR-NV-0963	1SNB.H	C 243 41-06 737-00	I	Y	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-NV-0966	1SNB.H	C 237 36-06 744-06	I	Y	N
1-MCR-NV-0967	1SNB.H	C 240 33-03 745-02	I	Y	N
1-MCR-NV-0969	1SNB.H	C 239 32-00 744-11	I	Y	N
1-MCR-NV-0970	1SNB.H	C 236 33-00 746-02	I	Y	N
1-MCR-NV-0972	1SNB.H	C 239 30-03 745-02	I	Y	N
1-MCR-NV-1005	1SNB.H	B 108 45-12 734-00	I	Y	N
1-MCR-NV-1006	2SNB.H	B 108 45-03 734-00	I	Y	N
1-MCR-NV-1007	1SNB.H	B 108 34-09 734-08	I	Y	N
1-MCR-NV-1011	1SNB.H	A 072 34-08 738-06	I	Y	N
1-MCR-NV-1014	1SNB.H	B 105 48-08 735-03	I	Y	N
1-MCR-NV-1031	1SNB.H	A 016 50-06 734-00	I	Y	N
1-MCR-NV-1032	1SNB.H	A 016 46-06 734-00	I	Y	N
1-MCR-NV-1034	1SNB.H	A 015 51-06 734-00	I	Y	N
1-MCR-NV-1043	1SNB.H	D 303 52-06 731-00	I	Y	N
1-MCR-NV-1047	1SNB.H	D 299 50-09 734-00	I	Y	N
1-MCR-NV-1048	1SNB.H	D 299 45-06 733-00	I	Y	N
1-MCR-NV-1051	1SNB.H	D 301 39-06 737-07	I	Y	N
1-MCR-NV-1060	1SNB.H	B 112 34-05 737-03	I	Y	N
1-MCR-NV-1064	1SNB.H	B 100 33-06 738-06	I	Y	N
1-MCR-NV-1067	1SNB.H	B 112 34-04 737-00	I	Y	N
1-MCR-NV-1070	1SNB.H	D 299 52-10 730-08	I	Y	N
1-MCR-NV-1071	1SNB.H	A 016 53-06 730-03	I	Y	N
1-MCR-NV-1147	1SNB.H	C 191 45-06 755-00	I	Y	N
1-MCR-NV-1201	1SNB.H	B 124 52-00 734-01	I	Y	N
1-MCR-NV-1206	1SNB.H	B 124 55-06 730-03	I	Y	N
1-MCR-NV-1213	1SNB.H	B 136 47-02 731-07	I	Y	N
1-MCR-NV-1214	1SNB.H	B 136 48-11 731-07	I	Y	N
1-MCR-NV-1227	1SNB.H	C 211 57-02 731-05	I	Y	N
1-MCR-NV-1232	1SNB.H	C 230 54-09 730-03	I	Y	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-NV-1235	1SNB.H	C 230 49-00 732-06	I	Y	N
1-MCR-NV-1245	1SNB.H	B 100 55-06 733-04	I	Y	N
1-MCR-RN-0625	1SNB.H	B 115 40-09 750-05	I	Y	N
1-MCR-S-KC-104-01-B	1SNB.H	A 052 40-06 731-06	I	Y	N
1-MCR-S-KC-120-01-HH	1SNB.H	C 208 56-06 756-09	I	Y	N
1-MCR-S-KC-120-01-Z	1SNB.H	B 159 57-00 750-01	I	Y	N
1-MCR-S-KC-121-01-GG	1SNB.H	C 201 57-00 756-03	I	Y	N
1-MCR-S-KC-121-01-II	1SNB.H	C 201 56-04 756-03	I	Y	N
1-MCR-S-KC-121-01-JJ	1SNB.H	C 201 55-00 757-01	I	Y	N
1-MCR-S-NF-100-01-H	1SNB.H	C 232 59-00 815-03	A	N	N
1-MCR-S-NF-100-01-I	1SNB.H	C 252 59-00 815-03	I	N	N
1-MCR-S-NF-100-01-O	1SNB.H	C 250 53-05 822-00	I	N	N
1-MCR-S-NF-100-01-R	1SNB.H	C 250 46-04 822-00	I	N	N
1-MCR-S-NF-101-01-G	2SNB.H	C 250 59-00 817-03	I	N	N
1-MCR-S-NF-101-01-L	1SNB.H	C 250 54-04 822-00	I	N	N
1-MCR-S-NI-100-02-BB	1SNB.H	C 239 52-06 742-04	I	Y	N
1-MCR-S-NI-100-02-Q	1SNB.H	C 218 45-00 730-03	I	Y	N
1-MCR-S-NI-100-04-AA	1SNB.H	B 151 57-00 728-03	I	Y	N
1-MCR-S-NI-100-04-D	1SNB.H	B 142 55-09 731-01	I	Y	N
1-MCR-S-NI-100-04-E	1SNB.H	B 142 55-09 731-02	I	Y	N
1-MCR-S-NI-100-04-O	1SNB.H	B 151 40-06 731-05	I	Y	N
1-MCR-S-NI-100-05-CC	1SNB.H	A 069 38-11 731-00	I	Y	N
1-MCR-S-NI-100-05-DD	1SNB.H	A 069 45-03 730-07	I	Y	N
1-MCR-S-NI-100-05-X	1SNB.H	A 063 45-03 730-03	I	Y	N
1-MCR-S-NI-100-08-U	1SNB.H	D 320 56-09 728-03	I	Y	N
1-MCR-S-NI-100-08-V	1SNB.H	D 320 56-09 731-03	I	Y	N
1-MCR-S-NI-100-09-I	1SNB.H	C 240 55-04 733-02	I	Y	N
1-MCR-S-NI-104-01-V	1SNB.H	C 225 53-03 760-03	I	Y	N
1-MCR-S-NI-104-01-W	1SNB.H	C 225 57-00 760-00	I	Y	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-S-NI-104-02-CC	1SNB.H	B 134 48-06 760-03	I	Y	N
1-MCR-S-NI-104-02-DD	1SNB.H	A 045 53-06 760-03	I	Y	N
1-MCR-S-NI-104-02-EE	1SNB.H	A 045 51-00 760-03	I	Y	N
1-MCR-S-NI-104-02-FF	1SNB.H	B 134 51-00 760-03	I	Y	N
1-MCR-S-NI-104-03-T	1SNB.H	D 312 51-00 762-04	I	Y	N
1-MCR-S-NM-101-01-Y	1SNB.H	B 090 55-06 733-06	I	Y	N
1-MCR-S-NM-102-01-W	1SNB.H	D 315 54-07 733-06	I	Y	N
1-MCR-S-NV-100-02-K	1SNB.H	B 173 56-01 730-00	I	Y	N
1-MCR-S-NV-100-02-U	1SNB.H	B 173 55-04 733-04	I	Y	N
1-MCR-S-NV-100-03-O	1SNB.H	C 269 45-08 728-08	I	Y	N
1-MCR-S-NV-100-03-P	1SNB.H	D 313 55-00 730-06	I	Y	N
1-MCR-S-RV-100-02-D	1SNB.H	A 080 51-07 747-08	I	N	N
1-MCR-S-RV-100-02-K	1SNB.H	B 103 57-00 753-06	I	N	N
1-MCR-S-RV-100-02-M	1SNB.H	B 103 57-00 753-06	I	N	N
1-MCR-S-RV-101-02-D	1SNB.H	A 080 51-07 747-02	I	N	N
1-MCR-S-RV-101-02-L	1SNB.H	B 119 57-00 752-06	I	Y	N
1-MCR-S-RV-102-01-F	1SNB.H	A 014 47-09 733-06	I	Y	N
1-MCR-S-RV-102-01-G	1SNB.H	A 014 45-06 733-00	I	Y	N
1-MCR-S-VE-100-01-G	1SNB.H	C 249 58-06 778-03	I	N	N
1-MCR-S-VE-101-01-F	1SNB.H	C 215 59-02 777-11	I	N	N
1-MCR-S-VE-102-01-N	1SNB.H	C 236 55-06 744-02	I	Y	N
1-MCR-S-VI-100-01-R	1SNB.H	C 258 56-02 799-09	I	N	N
1-MCR-S-VX-100-01-GG	1SNB.H	C 258 51-01 826-09	I	N	N
1-MCR-S-VX-100-01-HH	1SNB.H	C 258 50-03 828-04	I	N	N
1-MCR-S-VX-100-01-JJ	1SNB.H	C 258 48-01 728-06	I	Y	N
1-MCR-S-VX-100-01-Q	1SNB.H	C 256 62-00 808-00	I	N	N
1-MCR-SM- H002	1SNB.H	A 009 38-03 803-01	I	N	N
1-MCR-SM- H003	1SNB.H	A 009 38-03 804-02	I	N	N
1-MCR-SM- H005	1SNB.H	A 009 38-03 783-02	I	N	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-SM- H006	1SNB.H	A 009 38-03 782-01	I	N	N
1-MCR-SM- H083	1SNB.H	B 096 38-00 738-02	I	Y	N
1-MCR-SM- H084	1SNB.H	C 185 38-00 782-04	I	N	N
1-MCR-SM- H086	1SNB.H	C 185 37-11 803-01	I	N	N
1-MCR-SM- H087	1SNB.H	C 186 37-11 804-06	I	N	N
1-MCR-SM- H090	1SNB.H	D 354 37-11 803-03	I	N	N
1-MCR-SM- H091	1SNB.H	D 354 37-11 802-01	I	N	N
1-MCR-SM- H093	1SNB.H	D 354 38-00 785-05	I	N	N
1-MCR-SM- H094	1SNB.H	D 354 38-00 784-08	I	N	N
1-MCR-SM- H158	1SNB.H	B 171 38-03 783-02	I	N	N
1-MCR-SM- H159	1SNB.H	B 171 38-03 782-04	I	N	N
1-MCR-SM- H161	1SNB.H	B 171 38-02 803-01	I	N	N
1-MCR-SM- H162	1SNB.H	B 171 38-02 804-02	I	N	N
1-MCR-VQ-0506	1SNB.H	C 260 58-11 755-00	I	N	N
1-MCR-VQ-0508	1SNB.H	C 262 60-05 755-00	I	N	N
1-MCR-VQ-0514	1SNB.H	C 262 61-08 809-09	I	N	N
1-MCR-WL- H996	1SNB.H	B 116 56-00 731-06	I	N	N
1-MCS-AS- H237	1SNB.H	-U32 EL747-00	I	N	N
1-MCT-CF- H101	1SNB.H	IH34 EL763-00	A	N	N
1-MCT-CF- H103	1SNB.H	IJ34 EL763-00	A	N	N
1-MCT-CF- H105	1SNB.H	IJ34 EL762-05	A	N	N
1-MCT-CF- H107	1SNB.H	IJ34 EL763-00	A	N	N
1-MCT-CF- H219	1SNB.H	IH32 EL751-06	A	N	N
1-MCT-CF- H224	1SNB.H	IJ34 EL754-06	A	N	N
1-MCT-CF- H232	1SNB.H	IJ34 EL751-06	A	N	N
1-MCT-CF- H233	1SNB.H	IG34 EL751-06	A	N	N
1-MCT-CF- H236	1SNB.H	IF32 EL747-07	A	N	N
1-MCT-CF- H240	2SNB.H	IG31 EL743-06	A	N	N
1-MCT-CF- H241	1SNB.H	IG30 EL743-06	A	N	N

TABLE 3.7-4a

SAFETY RELATED HYDRAULIC SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCT-CF- H242	2SNB.H	IG30 EL743-06	A	N	N
1-MCT-CF- H247	1SNB.H	IF31 EL751-09	A	N	N
1-MCT-CF- H255	1SNB.H	IG32 EL753-00	A	N	N
1-MCT-CF- H257	1SNB.H	IG32 EL753-06	A	N	N
1-MCT-CF- H260	1SNB.H	IG32 EL755-06	A	N	N
1-MCT-SM- H041	2SNB.H	IB33 EL764-06	A	N	N
1-MCT-SM- H043	1SNB.H	IC33 EL764-03	A	N	N
1-MCT-SM- H051	1SNB.H	IG34 EL774-08	A	N	N
1-MCT-SM- H121	2SNB.H	IF33 EL742-10	A	N	N
1-MCT-SM- H123	2SNB.H	IE33 EL742-09	A	N	N
1-MCT-SM- H176	2SNB.H	IF33 EL742-09	A	N	N
1-MCT-SM- H177	2SNB.H	IE33 EL742-09	A	N	N
1-MCY-FW- H139	2SNB.H	KK49 EL757-09	A	N	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
MC-1683-KC.15-R013	1SNB.M	KK53 EL743-08	A	N	N
MC-1683-KC.21-R008A	1SNB.M	KK58 EL769-04	A	N	N
MC-1683-KC.39-R085	2SNB.M	MM58 EL725-10	A	N	N
MC-1683-KC.39-R086	2SNB.M	MM58 EL725-10	A	N	N
MC-1683-KC.48-R013	1SNB.M	JJ55 EL761-11	A	N	N
MC-1683-KC.59-R007	2SNB.M	KK56 EL757-10	A	N	N
MC-1683-KC.78-R002	1SNB.M	NN57 EL717-00	A	N	N
MC-1683-NB.01-R025	1SNB.M	PP59 EL745-06	I	N	N
MC-1683-NB.05-R076A	1SNB.M	MM58 EL723-00	A	N	N
MC-1683-NB.09-R003A	1SNB.M	NN56 EL743-11	I	N	N
MC-1683-NB.14-R002A	1SNB.M	MM58 EL717-02	A	N	N
MC-1683-NB.19-R014	2SNB.M	PP56 EL726-04	A	N	N
MC-1683-NB.37-R004	1SNB.M	NN57 EL714-11	I	Y	N
MC-1683-NB.37-R006	1SNB.M	NN57 EL711-11	I	Y	N
MC-1683-NB.37-R010	1SNB.M	NN56 EL711-03	I	Y	N
MC-1683-NB.37-R011	1SNB.M	NN57 EL711-03	I	Y	N
MC-1683-NC.06-R007	1SNB.M	EE52 EL722-11	I	Y	N
MC-1683-NV.04-R015	1SNB.M	MM54 EL744-06	I	N	N
MC-1683-NV.06-R009A	1SNB.M	JJ51 EL734-10	I	Y	N
MC-1683-NV.06-R012A	2SNB.M	JJ51 EL734-01	I	Y	N
MC-1683-NV.06-R023A	1SNB.M	JJ50 EL735-03	I	Y	N
MC-1683-NV.11-R020	1SNB.M	KK54 EL724-00	I	Y	N
MC-1683-NV.16-R007	1SNB.M	LL51 EL745-02	I	Y	N
#-MC-1683-NV.50-R002	1SNB.M	KK53 EL741-02	I	N	N
#-MC-1683-NV.53-R009	1SNB.M	LL53 EL742-09	I	N	N
#-MC-1683-NV.58-R006	1SNB.M	KK50 EL745-01	I	N	N

#-Exempted from periodic functional testing.

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
MC-1683-NV.59-R006	1SNB.M	JJ52 EL745-06	I	Y	N
MC-1683-NV.63-R001	1SNB.M	KK54 EL742-03	I	N	N
MC-1683-NV.64-R001	1SNB.M	KK54 EL741-05	I	N	N
MC-1683-RV.01-R005A	2SNB.M	PP54 EL778-09	A	N	N
MC-1683-RV.02-R003	1SNB.M	PP54 EL728-03	A	N	N
MC-1683-SM.01-R009	1SNB.M	FF43 EL758-11	A	N	N
MC-1683-SM.01-R010	1SNB.M	FF43 EL758-03	A	N	N
MC-1683-SM.01-R011	1SNB.M	FF53 EL758-10	A	N	N
MC-1683-SM.01-R012	1SNB.M	FF52 EL758-01	A	N	N
MC-1683-VI.12-R034	1SNB.M	FF53 EL741-06	I	Y	N
MC-1683-VI.12-R035	1SNB.M	FF52 EL743-09	I	Y	N
MC-1683-VI.12-R036	1SNB.M	JJ50 EL743-09	I	Y	N
MC-1683-VI.21-R017	1SNB.M	DD44 EL769-08	A	N	N
MC-1683-VI.21-R021	1SNB.M	EE44 EL793-07	A	N	N
MC-1683-VI.21-R022	1SNB.M	EE44 EL794-04	A	N	N
MC-1683-VI.21-R023	1SNB.M	EE44 EL749-07	A	N	N
MC-1683-VI.21-R024	1SNB.M	EE44 EL792-07	A	N	N
MC-1683-VI.21-R025	1SNB.M	EE44 EL793-04	A	N	N
MC-1683-VI.21-R026	1SNB.M	EE44 EL793-07	A	N	N
MC-1683-VI.21-R030	1SNB.M	EE44 EL791-09	A	N	N
MC-1683-VI.21-R032	1SNB.M	EE44 EL777-06	A	N	N
MC-1683-VI.22-R006	1SNB.M	EE53 EL799-06	A	N	N
MC-1683-VI.22-R007	1SNB.M	EE53 EL799-06	A	N	N
MC-1683-VI.22-R008	1SNB.M	EE53 EL799-06	A	N	N
MC-1683-VI.22-R009	1SNB.M	EE53 EL799-06	A	N	N
MC-1683-VI.22-R013	1SNB.M	EE53 EL784-06	A	N	N
MC-1683-VI.22-R015	1SNB.M	EE53 EL791-10	A	N	N
MC-1683-VI.22-R018	1SNB.M	EE53 EL795-10	A	N	N
MC-1683-VI.22-R022	1SNB.M	EE53 EL795-10	A	N	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
MC-1683-VI.22-R024	1SNB.M	EE53 EL799-06	A	N	N
MC-1683-VI.25-R-12	1SNB.M	BBA42 EL754-08	A	N	N
MC-1683-WE.01-R003	1SNB.M	JJ50 EL746-05	I	Y	N
MC-1683-WG.11-R004A	1SNB.M	NN53 EL725-06	I	Y	N
MC-1683-WG.38-R002	1SNB.M	MM52 EL724-00	I	N	N
MC-1683-WL.05-R013	1SNB.M	MM58 EL723-00	I	N	N
MC-1683-WL.13-R007	1SNB.M	LL61 EL727-00	I	N	N
MC-1683-WL.23-R004	1SNB.M	LL60 EL715-03	I	Y	N
MC-1683-WL.23-R009	1SNB.M	LL60 EL711-03	I	Y	N
MC-1683-WL.23-R010	1SNB.M	LL60 EL712-00	I	Y	N
MC-1683-WL.23-R011	1SNB.M	LL60 EL711-03	I	Y	N
1-MCA-AS- H216	1SNB.M	NN52 EL763-00	A	N	N
1-MCA-AS- H372	1SNB.M	MM52 EL763-00	A	N	N
1-MCA-BB- H326	1SNB.M	FF53 EL734-03	I	Y	N
1-MCA-BB- H330	1SNB.M	EE53 EL737-09	I	Y	N
1-MCA-BB- H339	1SNB.M	FF53 EL744-06	I	Y	N
1-MCA-BB- H352	2SNB.M	FF52 EL736-08	I	Y	N
1-MCA-BB- H361	1SNB.M	FF53 EL738-09	I	Y	N
1-MCA-BB- H378	1SNB.M	EE53 EL738-09	I	Y	N
1-MCA-BB- H381	1SNB.M	FF52 EL740-08	I	Y	N
1-MCA-BB- H394	1SNB.M	FF52 EL739-09	I	Y	N
1-MCA-CA- H159	1SNB.M	EE44 EL759-06	A	N	N
1-MCA-CA- H325	1SNB.M	BB60 EL724-00	A	N	N
1-MCA-CA- H347	1SNB.M	BB51 EL727-09	A	N	N
1-MCA-CA- H349	1SNB.M	BB51 EL727-09	A	N	N
1 MCA-CA- H415	1SNB.M	EE52 EL759-06	A	N	N
1-MCA-CA- H419	1SNB.M	EE52 E1579-06	A	N	N
1-MCA-CA- H459	1SNB.M	DD45 EL756-03	A	N	N
1-MCA-CA- H464	2SNB.M	EE44 EL759-06	A	N	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-CA- H467	1SNB.M	EE4^ EL759-06	A	N	N
1-MCA-CA- H498	1SNB.M	DD53 EL756-06	A	N	N
1-MCA-CF- H292	2SNB.M	DD53 EL755-09	A	N	N
1-MCA-CF- H293	1SNB.M	DD53 EL765-00	A	N	N
1-MCA-CF- H320	1SNB.M	EE52 EL755-03	A	N	N
1-MCA-CF- H340	1SNB.M	EE44 EL759-09	A	N	N
1-MCA-FW- H109	1SNB.M	HH53 EL718-00	I	N	N
1-MCA-FW- H111	1SNB.M	KK53 EL721-07	I	Y	N
1-MCA-FW- H124	1SNB.M	HH55 EL697-06	I	N	N
1-MCA-FW- H128	1SNB.M	KK51 EL761-05	A	N	N
1-MCA-FW- H130	2SNB.M	KK53 EL761-00	A	N	N
1-MCA-FW- H131	3SNB.M	KK53 EL757-00	A	N	N
1-MCA-FW- H194	1SNB.M	KK53 EL761-01	A	N	N
1-MCA-KC- H344	1SNB.M	KK53 EL759-09	I	Y	N
1-MCA-KC- H804	1SNB.M	MM61 EL718-06	I	Y	N
1-MCA-KC-1023	1SNB.M	JJ57 EL767-07	A	N	N
1-MCA-KC-1062	1SNB.M	MM53 EL759-03	A	N	N
1-MCA-KC-1092	2SNB.M	HH57 EL744-09	A	N	N
1-MCA-KC-1095	1SNB.M	HH56 EL742-00	A	N	N
1-MCA-KC-2130	1SNB.M	HH55 EL741-10	A	N	N
1-MCA-KC-2133	1SNB.M	HH56 EL740-07	A	N	N
1-MCA-KC-2135	1SNB.M	HH57 EL740-07	A	N	N
1-MCA-KC-2321	2SNB.M	LL53 EL759-03	A	N	N
1-MCA-KF-1043	1SNB.M	PP51 EL759-03	A	N	N
1-MCA-KF-1045	1SNB.M	PP51 EL759-03	A	N	N
1-MCA-KF-2099	2SNB.M	PP51 EL756-08	A	N	N
1-MCA-NB- H907	1SNB.M	NN56 EL727-05	A	N	N
1-MCA-NB- H908	1SNB.M	NN56 EL724-10	A	N	N
1-MCA-NB- H917	1SNB.M	LL51 EL740-00	I	Y	N

McGuire - Unit 1

3/4 7-35

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-NB- H919	1SNB.M	LL51 EL745-06	I	Y	N
1-MCA-NB- H935	2SNB.M	KK51 EL739-06	I	Y	N
1-MCA-NB-1012	2SNB.M	NN56 EL741-05	I	Y	N
1-MCA-NB-1036	1SNB.M	PP56 EL744-06	I	Y	N
1-MCA-NB-1319	1SNB.M	JJ51 EL746-06	I	Y	N
#-1-MCA-NB-2037	2SNB.M	QQ56 EL744-06	I	Y	N
#-1-MCA-NB-2342	1SNB.M	QQ56 EL744-06	I	Y	N
#-1-MCA-NB-2343	2SNB.M	PP56 EL745-01	I	Y	N
#-1-MCA-NB-2351	2SNB.M	QQ56 EL744-06	I	Y	N
#-1-MCA-NB-2354	2SNB.M	QQ56 EL738-04	I	Y	N
1-MCA-NB-2358	1SNB.M	QQ56 EL744-07	I	Y	N
1-MCA-NB-2385	2SNB.M	PP56 EL742-06	I	Y	N
1-MCA-NB-2386	1SNB.M	PP56 EL742-06	I	Y	N
1-MCA-NC- H027	1SNB.M	FF52 EL738-00	I	Y	N
1-MCA-NC- H059	1SNB.M	FF52 EL738-00	I	Y	N
1-MCA-NC- H063	1SNB.M	HH52 EL738-05	I	Y	N
1-MCA-NC- H064	1SNB.M	HH52 EL738-04	I	Y	N
1-MCA-ND- H635	1SNB.M	LL52 EL740-10	I	N	N
1-MCA-ND- H110	1SNB.M	GG53 EL696-09	I	N	N
1-MCA-ND- H176	1SNB.M	HH53 EL726-00	I	Y	N
1-MCA-ND- H177	1SNB.M	HH53 EL724-00	I	Y	N
1-MCA-ND- H251	1SNB.M	HH53 EL708-00	I	N	N
1-MCA-ND- H260	1SNB.M	GG53 EL724-00	I	Y	N
1-MCA-ND- H295	1SNB.M	MM52 EL735-00	I	Y	N
1-MCA-ND- H324	1SNB.M	HH52 EL728-09	I	Y	N
1-MCA-ND- H325	1SNB.M	HH52 EL729-09	I	Y	N

#-Exempted from periodic functional testing.

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-ND- H326	1SNB.M	HH53 EL728-00	I	Y	N
1-MCA-ND- H327	2SNB.M	HH53 EL726-08	I	Y	N
1-MCA-ND- H331	1SNB.M	JJ52 EL726-00	I	Y	N
1-MCA-ND- H333	1SNB.M	LL51 EL740-10	I	N	N
1-MCA-NI- H101	1SNB.M	HH52 EL752-08	I	N	N
1-MCA-NI- H316	1SNB.M	HH52 EL761-00	A	N	N
1-MCA-NI- H357	1SNB.M	FF53 EL716-00	I	Y	N
1-MCA-NI- H360	1SNB.M	JJ53 EL763-00	A	N	N
1-MCA-NI- H364	1SNB.M	KK53 EL770-01	A	N	N
1-MCA-NV- H215	1SNB.M	LL55 EL723-03	A	N	N
1-MCA-NV- H310	1SNB.M	JJ52 EL726-01	I	Y	N
1-MCA-NV- H5578	1SNB.M	EE52 EL736-09	I	Y	N
1-MCA-NV- H5587	1SNB.M	HH52 EL736-09	I	Y	N
1-MCA-NV- H5589	1SNB.M	JJ51 EL740-06	I	Y	N
1-MCA-NV- H5591	1SNB.M	JJ52 EL741-01	I	Y	N
1-MCA-NV- H5593	1SNB.M	JJ52 EL741-01	I	Y	N
1-MCA-NV- H5595	1SNB.M	JJ51 EL741-01	I	Y	N
1-MCA-NV- H5602	1SNB.M	KK51 EL742-06	I	Y	N
1-MCA-NV- H5603	1SNB.M	MM56 EL722-06	A	N	N
1-MCA-NV- H5605	1SNB.M	GG53 EL740-09	I	Y	N
1-MCA-NV- H5608	1SNB.M	KK52 EL728-09	I	Y	N
1-MCA-NV- H5609	1SNB.M	JJ53 EL724-07	I	Y	N
1-MCA-NV- H5617	1SNB.M	FF53 EL745-08	A	N	N
1-MCA-NV- H5619	1SNB.M	KK53 EL723-07	I	Y	N
1-MCA-NV- H5621	2SNB.M	JJ59 EL726-00	I	Y	N
1-MCA-NV- H5622	2SNB.M	JJ55 EL724-00	I	Y	N
1-MCA-NV- H5624	1SNB.M	JJ53 EL721-02	I	Y	N
1-MCA-NV- H5625	1SNB.M	JJ53 EL724-06	I	Y	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCA-NV- H5630	1SNB.M	NN56 EL740-05	I	Y	N
1-MCA-RN- H937	1SNB.M	FF55 EL724-06	A	N	N
1-MCA-RN- H941	1SNB.M	FF58 EL735-06	I	Y	N
1-MCA-RN- H956	1SNB.M	FF54 EL743-08	I	Y	N
1-MCA-RN- H959	1SNB.M	GG52 EL737-05	I	Y	N
1-MCA-RN-0974	1SNB.M	GG52 EL728-10	I	Y	N
1-MCA-RN-1053	1SNB.M	FF54 EL745-00	I	Y	N
1-MCA-RN-1180	1SNB.M	FF54 EL741-06	I	Y	N
1-MCA-RN-1305	1SNB.M	FF52 EL735-06	I	Y	N
1-MCA-RN-1323	1SNB.M	EE59 EL724-00	I	Y	N
1-MCA-RN-1500	1SNB.M	FF56 EL724-06	A	N	N
1-MCA-RN-1529	1SNB.M	EE59 EL737-08	I	Y	N
1-MCA-RN-1530	1SNB.M	FF59 EL737-06	I	Y	N
1-MCA-RN-1533	2SNB.M	FF59 EL732-00	I	Y	N
1-MCA-RN-2467	1SNB.M	FF53 EL738-00	I	Y	N
1-MCA-RN-2468	1SNB.M	EE53 EL729-05	I	Y	N
1-MCA-RN-2469	1SNB.M	EE53 EL731-06	I	Y	N
1-MCA-RN-2492	1SNB.M	MM52 EL744-00	A	Y	N
1-MCA-RN-2510	1SNB.M	EE53 EL731-00	I	Y	N
1-MCA-RN-2511	4SNB.M	EE53 EL731-00	A	Y	N
1-MCA-RV- H184	1SNB.M	NN56 EL770-06	A	N	N
1-MCA-RV- H188	1SNB.M	QQ52 EL778-06	A	N	N
1-MCA-RV- H192	1SNB.M	QQ52 EL773-11	A	N	N
1-MCA-RV- H197	1SNB.M	NN56 EL779-03	A	N	N
1-MCA-RV- H203	1SNB.M	QQ52 EL777-06	A	N	N
1-MCA-SA- H022	1SNB.M	EE53 EL777-08	A	N	N
1-MCA-SA- H023	1SNB.M	EE53 EL776-07	A	N	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
#-1-MCA-SA- H025	1SNB.M	EE53 EL718-08	I	Y	N
1-MCA-SA- H026	1SNB.M	EE53 EL728-00	I	Y	N
1-MCA-SA- H027	1SNB.M	DD53 EL727-09	I	Y	N
1-MCA-SA- H032	1SNB.M	DD53 EL729-06	A	N	N
1-MCA-SA- H039	1SNB.M	AA53 EL727-09	A	N	N
1-MCA-SA- H107	1SNB.M	AA53 EL718-02	A	N	N
1-MCA-SM- H017	1SNB.M	GG43 EL760-06	A	N	N
1-MCA-SM- H076	1SNB.M	GG53 EL760-06	A	N	N
1-MCA-SM- H101	1SNB.M	GG44 EL760-06	A	N	N
1-MCA-SM- H164	1SNB.M	GG53 EL760-06	I	Y	N
1-MCA-SM- H186	1SNB.M	DD53 EL782-00	A	N	N
1-MCA-SM- H190	1SNB.M	DD63 EL781-10	A	N	N
1-MCA-SM- H202	1SNB.M	EE43 EL795-03	A	N	N
1-MCA-SM- H203	1SNB.M	EE53 EL795-04	A	N	N
1-MCA-SM- H204	1SNB.M	EE53 EL795-04	A	N	N
1-MCA-SM- H205	1SNB.M	EE44 EL795-04	A	N	N
1-MCA-SV- H001	1SNB.M	GG44 EL795-00	A	N	N
1-MCA-SV- H006	1SNB.M	GG43 EL795-0[illegible]	A	N	N
1-MCA-SV- H011	1SNB.M	GG53 EL795-0[illegible]	A	N	N
1-MCA-WL- H479	2SNB.M	KK61 EL726-00	I	Y	N
1-MCA-YC-0181	1SNB.M	GG57 EL774-09	A	N	N
1-MCA-YC-0189	1SNB.M	FF58 EL776-08	A	N	N
1-MCR-BB- H001	1SNB.M	C 210 38-00 743-04	I	Y	N
1-MCR-BB-0500	1SNB.M	C 185 00-00 730-03	I	Y	N
1-MCR-BB-0522	1SNB.M	C 137 54-00 729-03	I	Y	N
1-MCR-BB-0523	1SNB.M	B 180 56-09 731-03	I	Y	N

#-Exempted from periodic functional testing.

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-BB-0536	1SNB.M	B 148 57-00 734-10	I	Y	N
1-MCR-BB-0541	1SNB.M	B 141 55-09 734-08	I	Y	N
1-MCR-BB-0542	1SNB.M	B 139 45-09 734-00	I	Y	N
1-MCR-BB-0545	1SNB.M	B 141 56-04 735-00	I	Y	N
1-MCR-BB-0557	1SNB.M	A 077 46-00 734-00	I	Y	N
1-MCR-BB-0559	1SNB.M	A 075 54-11 734-06	I	Y	N
1-MCR-BB-0575	1SNB.M	A 024 39-00 745-08	I	Y	N
1-MCR-BB-0578	1SNB.M	A 033 34-11 745-03	I	Y	N
1-MCR-BB-0579	1SNB.M	A 039 34-03 745-03	I	Y	N
1-MCR-BB-0580	1SNB.M	A 040 32-01 745-03	I	Y	N
1-MCR-BB-0582	1SNB.M	A 035 30-01 745-03	I	Y	N
1-MCR-BB-0583	1SNB.M	A 036 30-06 745-03	I	Y	N
1-MCR-BB-0584	1SNB.M	A 034 28-06 745-09	I	Y	N
1-MCR-BB-0588	1SNB.M	A 032 35-08 745-03	I	Y	N
1-MCR-BB-0594	1SNB.M	A 041 37-10 743-01	I	Y	N
1-MCR-BB-0596	1SNB.M	A 039 41-00 746-08	I	Y	N
1-MCR-BB-0597	1SNB.M	A 036 40-02 747-05	I	Y	N
1-MCR-BB-0599	1SNB.M	A 033 38-11 746-02	I	Y	N
1-MCR-BB-0600	1SNB.M	A 035 39-05 745-10	I	Y	N
1-MCR-BB-0601	1SNB.M	A 035 39-05 745-07	I	Y	N
1-MCR-BB-0603	1SNB.M	A 037 40-05 744-07	I	Y	N
1-MCR-BB-0604	1SNB.M	A 038 39-07 744-07	I	Y	N
1-MCR-BB-0605	1SNB.M	A 038 38-05 744-07	I	Y	N
1-MCR-BB-0606	1SNB.M	A 037 37-08 744-07	I	Y	N
1-MCR-BB-0609	1SNB.M	A 030 38-02 747-01	I	Y	N
1-MCR-BB-0610	1SNB.M	A 030 38-02 747-01	I	Y	N
1-MCR-BB-0632	1SNB.M	A 058 56-06 730-03	I	Y	N
1-MCR-BB-0634	1SNB.M	A 057 51-00 734-01	I	Y	N
1-MCR-BB-0637	1SNB.M	A 057 56-00 736-09	I	Y	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-BB-0652	1SNB.M	D 354 40-09 742-00	I	Y	N
1-MCR-BB-0657	1SNB.M	D 335 37-09 748-07	I	Y	N
1-MCR-BB-0658	1SNB.M	D 335 37-10 748-07	I	Y	N
1-MCR-BB-0660	1SNB.M	D 346 36-04 748-07	I	Y	N
1-MCR-BB-0661	1SNB.M	D 346 36-06 748-07	I	Y	N
1-MCR-BB-0668	1SNB.M	D 354 40-09 745-11	I	Y	N
1-MCR-BB-0670	1SNB.M	D 354 40-09 745-11	I	Y	N
1-MCR-BB-0671	1SNB.M	D 343 42-05 747-09	I	Y	N
1-MCR-BB-0672	1SNB.M	D 343 42-05 747-10	I	Y	N
1-MCR-BB-0673	1SNB.M	D 342 41-10 748-03	I	Y	N
1-MCR-BB-0675	1SNB.M	D 342 38-01 745-08	I	Y	N
1-MCR-BB-0676	1SNB.M	D 342 38-01 745-06	I	Y	N
1-MCR-BB-0678	1SNB.M	D 348 38-08 745-03	I	Y	N
1-MCR-BB-0680	1SNB.M	D 349 39-08 744-09	I	Y	N
1-MCR-BB-0681	1SNB.M	D 347 40-06 743-03	I	Y	N
1-MCR-BB-0683	1SNB.M	D 343 37-04 745-03	I	Y	N
1-MCR-BB-0685	1SNB.M	D 357 57-00 733-06	I	Y	N
1-MCR-BB-0689	1SNB.M	B 135 56-09 729-01	I	Y	N
1-MCR-BB-0690	1SNB.M	D 334 37-02 745-03	I	Y	N
1-MCR-BB-0691	1SNB.M	D 334 37-02 745-03	I	Y	N
1-MCR-BB-0692	1SNB.M	D 346 40-02 745-03	I	Y	N
1-MCR-BB-0696	1SNB.M	D 336 37-06 745-03	I	Y	N
1-MCR-BB-0699	1SNB.M	C 210 34-07 745-09	I	Y	N
1-MCR-BB-0700	1SNB.M	C 212 28-09 747-07	I	Y	N
1-MCR-BB-0703	1SNB.M	C 215 30-02 745-07	I	Y	N
-MCR-BB-0704	1SNB.M	C 201 30-10 745-08	I	Y	N
1-MCR-BB-0705	1SNB.M	C 210 33-07 745-08	I	Y	N
1-MCR-BB-0711	1SNB.M	C 201 30-10 748-08	I	Y	N
1-MCR-BB-0715	1SNB.M	C 207 36-06 745-09	I	Y	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-BB-0716	1SNB.M	C 207 36-06 745-08	I	Y	N
1-MCR-BB-0717	2SNB.M	C 204 38-10 745-03	I	Y	N
1-MCR-BB-0718	1SNB.M	C 203 40-11 748-08	I	Y	N
1-MCR-BB-0719	1SNB.M	C 203 40-11 748-08	I	Y	N
1-MCR-BB-0721	1SNB.M	C 198 40-09 738-00	I	Y	N
1-MCR-BB-0725	1SNB.M	C 213 36-04 746-02	I	Y	N
1-MCR-BB-0726	1SNB.M	C 215 35-10 744-04	I	Y	N
1-MCR-BB-0727	1SNB.M	C 215 35-10 744-07	I	Y	N
1-MCR-BB-0729	1SNB.M	C 212 38-07 744-00	I	Y	N
1-MCR-BB-0732	1SNB.M	C 207 36-08 743-03	I	Y	N
1-MCR-BB-0733	1SNB.M	C 208 35-08 743-03	I	Y	N
1-MCR-BB-0735	1SNB.M	C 212 37-09 744-06	I	Y	N
1-MCR-BB-0736	1SNB.M	C 212 37-09 745-03	I	Y	N
1-MCR-BB-0738	1SNB.M	C 207 36-08 747-02	I	Y	N
1-MCR-BB-0739	1SNB.M	C 207 36-08 747-02	I	Y	N
1-MCR-BB-0751	1SNB.M	C 192 40-06 732-08	I	Y	N
1-MCR-BB-0752	1SNB.M	C 192 40-06 732-08	I	Y	N
1-MCR-BB-0753	1SNB.M	C 183 40-06 736-00	I	Y	N
1-MCR-BB-0760	1SNB.M	B 153 40-09 742-05	I	Y	N
1-MCR-BB-0761	1SNB.M	B 153 40-09 742-01	I	Y	N
1-MCR-BB-0762	1SNB.M	B 157 38-07 743-04	I	Y	N
1-MCR-BB-0763	1SNB.M	B 158 38-03 746-03	I	Y	N
1-MCR-BB-0765	1SNB.M	B 153 38-10 746-06	I	Y	N
1-MCR-BB-0766	1SNB.M	B 153 38-10 747-09	I	Y	N
1-MCR-BB-0767	1SNB.M	B 153 38-10 748-00	I	Y	N
1-MCR-BB-0769	1SNB.M	B 147 36-04 748-07	I	Y	N
1-MCR-BB-0770	1SNB.M	B 145 35-04 745-10	I	Y	N
1-MCR-BB-0771	1SNB.M	B 142 34-05 745-10	I	Y	N
1-MCR-BB-0772	1SNB.M	B 151 41-02 747-06	I	Y	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-BB-0774	1SNB.M	B 146 28-06 749-07	I	Y	N
1-MCR-BB-0775	1SNB.M	B 152 38-06 747-11	I	Y	N
1-MCR-BB-0776	1SNB.M	B 162 36-02 748-07	I	Y	N
1-MCR-BB-0777	1SNB.M	B 157 41-01 746-00	I	Y	N
1-MCR-BB-0778	1SNB.M	B 159 38-02 746-06	I	Y	N
1-MCR-BB-0780	1SNB.M	B 153 41-00 746-04	I	Y	N
1-MCR-BB-0781	1SNB.M	B 153 39-09 746-00	I	Y	N
1-MCR-BB-0783	1SNB.M	B 147 35-01 746-00	I	Y	N
1-MCR-BB-0784	1SNB.M	B 147 35-01 746-02	I	Y	N
1-MCR-BB-0786	1SNB.M	B 162 37-01 746-03	I	Y	N
1-MCR-BB-0788	1SNB.M	B 155 39-04 748-00	I	Y	N
1-MCR-BB-0790	1SNB.M	B 151 41-01 746-05	I	Y	N
1-MCR-BB-0792	1SNB.M	B 151 41-01 746-10	I	Y	N
1-MCR-BB-0794	1SNB.M	B 145 37-00 745-10	I	Y	N
1-MCR-BB-0797	1SNB.M	B 155 38-05 748-07	I	Y	N
1-MCR-BB-0798	1SNB.M	B 151 38-03 746-03	I	Y	N
1-MCR-BB-0799	1SNB.M	B 162 37-01 746-08	I	Y	N
1-MCR-BB-0813	1SNB.M	C 189 53-05 732-05	I	Y	N
1-MCR-BB-0814	1SNB.M	C 189 52-09 730-03	I	Y	N
1-MCR-CA- H392	1SNB.M	C 251 21-08 744-10	I	Y	N
1-MCR-CA- H398	1SNB.M	FF50 EL769-06	I	Y	N
1-MCR-CA- H401	1SNB.M	FF51 EL766-09	I	Y	N
1-MCR-CA- H448	1SNB.M	FF47 EL774-04	I	Y	N
1-MCR-CA- H484	1SNB.M	FF46 EL766-09	I	Y	N
1-MCR-CA- H490A	2SNB.M	A 024 22-05 773-06	I	Y	N
1-MCR-CA- H490B	2SNB.M	A 066 22-06 773-02	I	N	N
1-MCR-CA- H514	1SNB.M	B 184 55-06 752-06	I	Y	N
1-MCR-CA- H515	1SNB.M	A 005 55-06 752-06	I	Y	N
1-MCR-CF- H175	1SNB.M	A 070 40-10 773-00	I	Y	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-KC- H456	1SNB.M	B 114 52-00 727-06	I	Y	N
1-MCR-KC-0536	2SNB.M	B 108 50-09 729-00	A	N	N
1-MCR-KC-0595	1SNB.M	B 129 45-11 729-00	I	Y	N
1-MCR-KC-0598	1SNB.M	B 129 45-11 729-03	I	Y	N
1-MCR-KC-0654	1SNB.M	C 227 27-02 736-06	I	Y	N
1-MCR-KC-0655	1SNB.M	C 227 27-02 736-06	I	Y	N
1-MCR-KC-0664	1SNB.M	C 228 30-01 736-06	I	Y	N
1-MCR-KC-0685	1SNB.M	D 307 28-06 734-10	I	Y	N
1-MCR-KC-0686	1SNB.M	D 307 28-06 734-08	I	Y	N
1-MCR-KC-0984	1SNB.M	D 308 54-04 729-11	I	Y	N
1-MCR-NC- H020	1SNB.M	B 105 35-06 807-03	A	Y	N
1-MCR-NC-0503	1SNB.M	B 107 26-04 743-00	I	Y	N
1-MCR-NC-0504	1SNB.M	B 107 26-04 745-09	I	Y	N
1-MCR-NC-0542	1SNB.M	B 105 38-00 806-08	I	Y	N
1-MCR-NC-0553	1SNB.M	A 068 25-06 741-00	I	Y	N
1-MCR-NC-0566	1SNB.M	B 096 36-11 799-09	I	Y	N
1-MCR-NC-0567	1SNB.M	B 096 36-11 799-06	I	Y	N
1-MCR-NC-0568	1SNB.M	A 073 26-04 745-08	I	Y	N
1-MCR-NC-0569	1SNB.M	A 073 26-05 745-00	I	Y	N
1-MCR-NC-0573	1SNB.M	D 308 3[illegible] 04 727-08	I	Y	N
1-MCR-NC-0579	1SNB.M	B 180 34-07 727-08	I	Y	N
1-MCR-NC-0587	1SNB.M	A 036 38-06 735-11	I	Y	N
1-MCR-NC-0604	1SNB.M	A 042 18-06 742-09	I	Y	N
1-MCR-NC-0605	1SNB.M	A 022 19-11 742-09	I	Y	N
1-MCR-NC-0607	1SNB.M	A 051 28-11 745-08	I	Y	N
1-MCR-NC-0620	1SNB.M	D 321 40-02 744-05	I	Y	N
1-MCR-NC-0622	1SNB.M	D 308 40-02 735-06	I	Y	N
1-MCR-NC-0628	1SNB.M	D 311 26-09 742-09	I	Y	N
1-MCR-NC-0629	1SNB.M	D 315 22-01 742-09	I	Y	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-NC-0637	1SNB.M	D 311 29-04 744-06	I	Y	N
1-MCR-NC-0678	1SNB.M	B 113 37-10 804-02	I	Y	N
1-MCR-NC-0679	1SNB.M	B 113 37-10 804-02	I	Y	N
1-MCR-NC-0685	1SNB.M	B 111 40-03 803-11	I	Y	N
1-MCR-NC-0686	1SNB.M	B 111 40-03 803-11	I	Y	N
1-MCR-NC-0688	1SNB.M	B 101 40-01 803-08	I	Y	N
1-MCR-NC-0689	1SNB.M	B 105 40-00 803-08	I	Y	N
1-MCR-NC-0690	1SNB.M	C 202 19-11 742-09	I	Y	N
1-MCR-NC-0704	1SNB.M	C 217 37-11 734-04	I	Y	N
1-MCR-NC-0706	1SNB.M	C 215 40-00 735-09	I	Y	N
1-MCR-NC-0708	1SNB.M	C 215 40-00 741-02	I	Y	N
1-MCR-NC-0721	1SNB.M	B 144 39-04 740-10	I	Y	N
1-MCR-NC-0728	1SNB.M	B 138 20-10 742-09	I	Y	N
1-MCR-NC-0731	1SNB.M	B 138 20-10 742-09	I	Y	N
1-MCR-NC-0736	1SNB.M	B 122 29-03 745-02	I	Y	N
1-MCR-NC-0740	1SNB.M	B 141 39-11 741-05	I	Y	N
1-MCR-NC-0742	1SNB.M	B 144 39-04 745-02	I	Y	N
1-MCR-NC-0750	1SNB.M	B 105 40-00 803-08	I	Y	N
1-MCR-NC-0760	1SNB.M	B 105 37-11 807-10	I	Y	N
1-MCR-NC-0761	1SNB.M	B 105 35-10 807-10	I	Y	N
1-MCR-NC-0762	1SNB.M	B 105 32-04 809-00	I	Y	N
1-MCR-NC-0763	1SNB.M	B 105 32-04 808-11	I	Y	N
1-MCR-NC-0764	1SNB.M	B 105 32-04 809-00	I	Y	N
1-MCR-NC-0765	1SNB.M	B 107 36-11 810-09	I	Y	N
1-MCR-NC-0766	1SNB.M	B 107 36-11 810-09	I	Y	N
1-MCR-NC-0767	1SNB.M	B 103 36-01 810-09	I	Y	N
1-MCR-NC-0768	1SNB.M	B 103 36-01 810-09	I	Y	N
1-MCR-NC-0773	1SNB.M	B 105 32-04 809-00	I	Y	N
1-MCR-NC-0789	1SNB.M	B 105 31-01 807-00	I	Y	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-NC-0790	1SNB.M	B 105 31-01 807-00	I	Y	N
1-MCR-NC-0791	1SNB.M	B 105 31-02 807-00	I	Y	N
1-MCR-NC-0792	1SNB.M	B 105 31-02 807-00	I	Y	N
1-MCR-NC-0793	1SNB.M	B 105 33-06 807-10	I	Y	N
1-MCR-NC-0802	1SNB.M	A 068 28-05 739-06	I	Y	N
1-MCR-NC-0886	1SNB.M	D 306 28-05 726-10	I	Y	N
1-MCR-NC-0887	1SNB.M	D 306 28-05 728-02	I	Y	N
1-MCR-NC-0888	1SNB.M	D 302 29-03 728-01	I	Y	N
1-MCR-NC-0889	1SNB.M	D 302 29-03 726-05	I	Y	N
1-MCR-NC-0891	1SNB.M	D 308 29-06 727-02	I	Y	N
1-MCR-NC-0906	1SNB.M	B 098 32-03 807-03	I	Y	N
1-MCR-NC-0907	1SNB.M	B 107 32-05 807-03	I	Y	N
1-MCR-NC-0909	1SNB.M	B 103 32-09 807-03	I	Y	N
1-MCR-NC-0910	1SNB.M	B 101 33-07 807-03	I	Y	N
1-MCR-NC-0911	1SNB.M	B 111 32-11 807-03	I	Y	N
1-MCR-NC-0912	2SNB.M	B 111 32-11 807-03	I	Y	N
1-MCR-NC-0923	1SNB.M	B 110 35-03 807-03	I	Y	N
1-MCR-ND-0503	1SNB.M	B 162 39-01 738-09	I	Y	N
1-MCR-ND-0507	2SNB.M	C 183 35-08 737-03	I	Y	N
1-MCR-ND-0511	1SNB.M	B 167 36-05 740-04	I	Y	N
1-MCR-NI-0513	1SNB.M	A 082 50-03 730-00	I	Y	N
1-MCR-NI-0531	2SNB.M	B 138 33-09 749-06	I	Y	N
1-MCR-NI-0537	2SNB.M	B 143 39-06 735-00	I	Y	N
1-MCR-NI-0538	1SNB.M	B 146 40-04 743-03	I	Y	N
1-MCR-NI-0556	1SNB.M	D 290 47-09 733-00	I	Y	N
1-MCR-NI-0570	2SNB.M	D 318 39-01 733-00	I	Y	N
1-MCR-NI-0585	1SNB.M	D 320 36-00 740-00	I	Y	N
1-MCR-NI-0586	1SNB.M	D 327 39-06 743-03	I	Y	N
1-MCR-NI-0660	1SNB.M	B 175 40-00 745-03	I	Y	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-NI-0664	1SNB.M	C 185 54-03 752-00	A	Y	N
1-MCR-NI-0697	1SNB.M	B 090 57-00 732-06	I	Y	N
1-MCR-NI-0845	1SNB.M	D 297 30-10 736-06	I	Y	N
1-MCR-NI-0858	1SNB.M	A 045 18-07 742-09	I	Y	N
1-MCR-NI-0859	1SNB.M	A 049 17-09 742-09	I	Y	N
1-MCR-NI-0875	2SNB.M	C 240 40-06 738-12	I	Y	N
1-MCR-NI-0910	1SNB.M	B 140 17-09 740-09	I	Y	N
1-MCR-NI-0918	1SNB.M	B 178 17-09 743-00	I	Y	N
1-MCR-NI-0919	1SNB.M	B 178 17-09 740-00	I	Y	N
1-MCR-NI-0941	1SNB.M	C 194 40-06 747-00	I	Y	N
1-MCR-NI-0945	2SNB.M	C 185 28-10 742 06	I	Y	N
1-MCR-NI-0947	1SNB.M	B 164 40-08 744-10	I	Y	N
1-MCR-NI-0971	1SNB.M	A 045 48-04 762-00	I	Y	N
1-MCR-NM- H014	1SNB.M	A 034 18-07 748-10	I	Y	N
1-MCR-NM-0500	1SNB.M	A 013 22-08 754-01	I	Y	N
1-MCR-NM-0501	1SNB.M	A 013 22-03 755-00	I	Y	N
1-MCR-NM-0523	1SNB.M	C 217 48-06 734-00	I	Y	N
1-MCR-NM-0524	1SNB.M	C 213 45-00 735-09	I	Y	N
1-MCR-NM-0533	1SNB.M	A 013 22-10 754-02	I	Y	N
1-MCR-NM-0536	1SNB.M	C 185 45-00 734-02	I	Y	N
1-MCR-NM-0553	1SNB.M	B 174 29-01 753-03	I	Y	N
1-MCR-NM-0567	1SNB.M	C 185 45-11 732-06	I	Y	N
1-MCR-NM-0570	1SNB.M	C 185 46-06 731-09	I	Y	N
1-MCR-NM-0584	1SNB.M	C 213 45-06 735-06	I	Y	N
1-MCR-NM-0651	1SNB.M	D 351 22-04 754-07	I	Y	N
1-MCR-NM-0652	1SNB.M	D 351 22-04 754-02	I	Y	N
1-MCR-NM-0654	1SNB.M	D 189 21-08 753-04	I	Y	N
1-MCR-NM-0655	1SNB.M	D 189 21-08 753-01	I	Y	N
1-MCR-NM-0677	1SNB.M	C 213 45-09 734-09	I	Y	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-NM-0716	1SNB.M	B 168 11-06 749-07	I	Y	N
1-MCR-NM-0726	1SNB.M	D 355 22-00 748-02	I	Y	N
1-MCR-NM-0728	1SNB.M	D 355 22-00 748-01	I	Y	N
1-MCR-NM-0729	1SNB.M	D 355 22-00 741-04	I	Y	N
1-MCR-NM-0730	1SNB.M	D 355 32-00 740-05	I	Y	N
1-MCR-NM-0731	2SNB.M	D 355 32-00 740-07	I	Y	N
1-MCR-NM-0732	1SNB.M	D 355 22-01 741-06	I	Y	N
1-MCR-NM-0758	1SNB.M	B 114 45-06 750-00	I	Y	N
1-MCR-NM-0761	1SNB.M	B 114 45-00 750-00	I	Y	N
1-MCR-NM-0762	1SNB.M	B 114 45-09 756-04	I	Y	N
1-MCR-NV-0608	1SNB.M	B 116 56-00 734-11	I	Y	N
1-MCR-NV-0634	1SNB.M	D 351 56-00 726-09	I	Y	N
1-MCR-NV-0701	1SNB.M	C 187 56-09 729-00	I	Y	N
1-MCR-NV-0720	1SNB.M	C 230 40-01 734-10	I	Y	N
1-MCR-NV-0721	1SNB.M	C 230 47-06 733-00	I	Y	N
1-MCR-NV-0722	1SNB.M	C 230 47-06 733-00	I	Y	N
1-MCR-NV-0723	1SNB.M	C 227 27-08 737-06	I	Y	N
1-MCR-NV-0724	1SNB.M	C 227 27-03 737-09	I	Y	N
1-MCR-NV-0819	1SNB.M	C 216 40-00 737-10	I	Y	N
1-MCR-NV-0874	1SNB.M	C 238 32-05 745-00	I	Y	N
1-MCR-NV-0875	1SNB.M	C 240 32-11 746-02	I	Y	N
1-MCR-NV-0928	1SNB.M	D 315 34-09 745-02	I	Y	N
1-MCR-NV-0929	2SNB.M	D 317 33-00 746-00	I	Y	N
1-MCR-NV-0940	1SNB.M	A 060 35-09 745-02	I	Y	N
1-MCR-NV-0942	1SNB.M	A 061 35-04 746-01	I	Y	N
1-MCR-NV-0946	1SNB.M	B 134 36-09 744-06	I	Y	N
1-MCR-NV-0978	1SNB.M	D 317 32-05 749-03	I	Y	N
1-MCR-NV-1002	1SNB.M	B 108 47-06 734-00	I	Y	N
1-MCR-NV-1003	1SNB.M	B 108 47-06 734-00	I	Y	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-NV-1050	2SNB.M	D 301 40-11 730-00	I	Y	N
1-MCR-NV-1054	1SNB.M	D 301 37-01 740-03	I	Y	N
1-MCR-NV-1062	1SNB.M	B 101 33-09 738-06	I	Y	N
1-MCR-NV-1073	1SNB.M	D 299 40-00 732-06	I	Y	N
1-MCR-NV-1074	1SNB.M	D 299 55-11 732-06	I	Y	N
1-MCR-NV-1079	2SNB.M	B 133 50-05 730-03	I	Y	N
1-MCR-NV-1095	1SNB.M	B 114 47-06 732-10	I	Y	N
1-MCR-NV-1096	1SNB.M	B 114 47-06 732-00	I	Y	N
1-MCR-NV-1202	1SNB.M	B 124 52-00 734-01	I	Y	N
1-MCR-NV-1207	1SNB.M	B 124 55-02 730-03		Y	N
1-MCR-NV-1220	1SNB.M	B 157 53-08 731-07		Y	N
1-MCR-NV-1230	1SNB.M	C 230 56-00 730-03	I	Y	N
1-MCR-NV-1234	1SNB.M	C 230 49-00 730-03	I	Y	N
1-MCR-NV-1237	1SNB.M	C 230 39-02 733-01	I	Y	N
1-MCR-NV-1238	2SNB.M	C 230 39-02 732-05	I	Y	N
1-MCR-NV-1247	1SNB.M	B 101 50-10 733-04	I	Y	N
1-MCR-NV-1263	1SNB.M	C 186 55-06 729-10	I	Y	N
1-MCR-NV-1290	1SNB.M	D 306 36-10 734-11	I	Y	N
1-MCR-NV-1291	1SNB.M	D 306 36-10 735-01	I	Y	N
1-MCR-NV-1293	1SNB.M	D 306 37-07 731-00	I	Y	N
1-MCR-RN-0670	1SNB.M	B 114 41-00 749-11	I	Y	N
1-MCR-RV-0585	2SNB.M	D 331 55-04 736-02	I	Y	N
1-MCR-RV-0648	1SNB.M	C 261 56-01 825-03	I	N	N
1-MCR-RV-0649	1SNB.M	C 261 55-03 827-06	I	N	N
1-MCR-RV-0685	1SNB.M	C 261 56-01 823-11	I	N	N
1-MCR-RV-0686	1SNB.M	C 258 56-00 826-00	I	N	N
1-MCR-RV-0726	1SNB.M	C 265 56-00 822-01	I	N	N
1-MCR-RV-0727	1SNB.M	C 265 56-00 822-05	I	N	N
1-MCR-S-KC-120-01-NN	1SNB.M	C 208 54-06 756-09	A	Y	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-S-KC-120-02-NN	1SNB.M	A 089 21-10 734-00	I	Y	N
1-MCR-S-KC-120-02-OO	1SNB.M	D 304 27-04 736-07	I	Y	N
1-MCR-S-KC-121-01-AA	1SNB.M	B 158 57-00 749-06	I	Y	N
1-MCR-S-KC-121-04-BB	1SNB.M	B 091 20-01 734-00	I	Y	N
1-MCR-S-KC-121-04-CC	1SNB.M	D 310 22-09 736-07	I	Y	N
1-MCR-S-NC-112-01-B	1SNB.M	C 248 55-10 744-02	I	Y	N
1-MCR-S-NC-112-01-C	1SNB.M	C 248 56-01 744-02	I	Y	N
1-MCR-S-NC-112-01-D	2SNB.M	C 248 56-06 744-02	I	Y	N
1-MCR-S-NF-100-01-E	1SNB.M	C 232 59-10 815-03	A	N	N
1-MCR-S-NF-100-01-X	1SNB.M	C 250 53-04 814-10	I	N	N
1-MCR-S-NF-101-01-O	1SNB.M	C 250 59-10 819-09	I	N	N
1-MCR-S-NF-101-01-U	1SNB.M	C 250 53-00 822-00	A	N	N
1-MCR-S-NI-100-01-D	1SNB.M	C 214 53-08 749-09	I	Y	N
1-MCR-S-NI-100-01-JJ	1SNB.M	C 208 56-01 727-00	I	Y	N
1-MCR-S-NI-100-01-U	1SNB.M	C 206 55-01 755-00	A	Y	N
1-MCR-S-NI-100-04-L	1SNB.M	B 143 48-03 749-06	I	Y	N
1-MCR-S-NI-100-04-Y	1SNB.M	B 151 55-09 730-03	I	Y	N
1-MCR-S-NI-100-07-B	1SNB.M	A 034 53-07 749-09	I	Y	N
1-MCR-S-NI-100-08-T	1SNB.M	D 321 55-09 728-10	I	Y	N
1-MCR-S-NI-100-09-D	1SNB.M	C 240 54-00 729-09	I	Y	N
1-MCR-S-NI-100-09-H	1SNB.M	C 240 54-05 733-02	I	Y	N
1-MCR-S-NI-105-01-T	1SNB.M	C 200 30-09 809-10	A	N	N
1-MCR-S-NI-105-01-U	1SNB.M	C 190 52-00 735-00	I	Y	N
1-MCR-S-NI-105-01-V	1SNB.M	C 190 52-00 734-09	I	Y	N
1-MCR-S-NI-105-02-SS	1SNB.M	A 023 31-08 809-10	A	N	N
1-MCR-S-NI-105-02-TT	1SNB.M	A 023 31-08 809-10	A	N	N
1-MCR-S-NI-105-03-SS	1SNB.M	D 270 30-11 809-10	A	N	N
1-MCR-S-NI-105-03-TT	1SNB.M	D 290 30-11 809-10	A	N	N
1-MCR-S-NI-105-04-Q	1SNB.M	B 156 47-00 809-10	A	N	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-S-NI-105-04-R	1SNB.M	B 156 47-00 809-10	A	N	N
1-MCR-S-NI-105-04-S	1SNB.M	C 187 51-07 731-11	I	Y	N
1-MCR-S-NI-105-04-T	1SNB.M	C 187 50-03 731-08	I	Y	N
1-MCR-S-NM-100-01-R	1SNB.M	C 209 56-00 733-11	I	Y	N
1-MCR-S-RF-100-01-B	2SNB.M	C 242 54-05 746-09	I	Y	N
1-MCR-S-RV-100-01-L	1SNB.M	A 056 46-05 731-10	I	Y	N
1-MCR-S-RV-100-02-B	1SNB.M	A 080 57-00 735-03	I	Y	N
1-MCR-S-RV-100-02-S	1SNB.M	A 080 51-06 740-09	I	N	N
1-MCR-S-RV-101-01-AA	1SNB.M	A 053 52-02 734-00	I	Y	N
1-MCR-S-RV-101-02-J	1SNB.M	B 119 57-00 752-06	I	Y	N
1-MCR-S-SM-100-01-A	1SNB.M	C 200 30-09 809-10	A	N	N
1-MCR-S-VE-101-01-G	1SNB.M	C 215 57-06 777-11	I	N	N
1-MCR-S-VE-101-01-L	1SNB.M	C 215 54-06 761-06	I	Y	N
1-MCR-S-VE-101-01-S	1SNB.M	C 215 57-06 762-09	A	[illegible]	N
1-MCR-S-VE-102-01-F	1SNB.M	C 236 56-08 744-02	I	Y	N
1-MCR-S-VI-100-01-K	1SNB.M	C 261 61-07 797-06	I	N	N
1-MCR-S-VI-100-01-O	1SNB.M	C 258 56-02 799-09	I	N	N
1-MCR-S-VI-100-01-T	1SNB.M	C 262 61-01 763-07	I	N	N
1-MCR-S-VI-100-01-U	1SNB.M	C 262 61-01 760-00	I	N	N
1-MCR-S-VI-100-01-Z	1SNB.M	C 264 61-00 760-00	I	N	N
1-MCR-S-VI-102-02-BB	1SNB.M	B 116 37-08 759-00	I	Y	N
1-MCR-S-VI-102-02-N	1SNB.M	B 116 38-02 759-00	I	Y	N
1-MCR-S-VX-100-01-PP	1SNB.M	C 258 56-09 828-02	I	N	N
1-MCR-S-WL-102-02-K	1SNB.M	A 089 25-04 738-06	I	Y	N
1-MCR-S-WL-103-01-W	1SNB.M	C 249 50-07 726-10	I	Y	N
1-MCR-SM- H001	1SNB.M	A 015 40-09 831-06	I	N	N
1-MCR-SM- H009	1SNB.M	A 009 38-04 760-07	I	Y	N
1-MCR-SM- H079	1SNB.M	C 264 38-04 760-07	I	Y	N
1-MCR-SM- H088	1SNB.M	D 354 37-10 808-01	I	N	N

TABLE 3.7-4b

SAFETY RELATED MECHANICAL SNUBBERS*

PIPE SUPPORT	TYPE/QUAN.	LOCATION	ACCESSIBLE/ INACCESSIBLE	HIGH RADIATION ZONE DURING SHUTDOWN**	ESPECIALLY DIFFICULT TO REMOVE
1-MCR-SM- H089	1SNB.M	D 354 37-11 808-01	I	N	N
1-MCR-SM- H097	1SNB.M	D 354 38-02 760-07	I	Y	N
1-MCR-SM- H154	1SNB.M	B 171 38-04 760-07	I	Y	N
1-MCR-SM- H163	1SNB.M	B 171 38-02 808-00	I	N	N
1-MCR-VI-0502	1SNB.M	B 128 47-06 761-09	A	Y	N
1-MCR-VI-0503	1SNB.M	B 128 47-06 761-09	A	Y	N
1-MCR-VQ-0500	1SNB.M	C 257 55-11 809-09	I	N	N
1-MCR-VQ-0501	1SNB.M	C 258 55-11 811-09	I	N	N
1-MCT-CF- H245	1SNB.M	IG32 EL751-06	A	N	N
1-MCT-CF- H246	2SNB.M	IG32 EL747-07	A	N	N
1-MCT-SM- H120	2SNB.M	IE33 EL742-08	A	N	N

SURVEILLANCE REQUIREMENTS (Continued)

(c) For each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all the circuit breakers of the inoperable type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested.

2. By selecting and functionally testing a representative sample of at least 10% of each type of lower voltage circuit breakers. Circuit breakers selected for functional testing shall be selected on a rotating basis. The nominal continuous rating and the maximum response time at 300% of the continuous rating are listed in Table 3.8-1. The functional test shall consist of injecting a current input above the trip setpoint to each selected circuit breaker and verifying that each circuit breaker functions as designed. Circuit breakers found inoperable during functional testing shall be restored to OPERABLE status prior to resuming operating. For each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all the circuit breakers of the inoperable type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested.

3. By selecting and functionally testing a representative sample of each type of fuse on a rotating basis. Each representative sample of fuses shall include at least 10% of all fuses of that type. The functional test shall consist of a non-destructive resistance measurement test which demonstrates that the fuse meets its manufacturer's design criteria. Fuses found inoperable during these functional tests shall be replaced with OPERABLE fuses prior to resuming operation. For each fuse found inoperable during these functional tests, an additional representative sample of at least 10% of all fuses of that type shall be functionally tested until no more failures are found or all fuses of that type have been functionally tested.

b. At least once per 60 months by subjecting each circuit breaker to an inspection and preventive maintenance in accordance with procedures prepared in conjunction with its manufacturer's recommendations.

TABLE 3.8-1

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
1. 6900 VAC-Swgr			
Primary Bkr-RCP1A	5.0	14 + 1.4 @ 25A	Reactor Coolant Pump 1A
Backup Brk-1TA-5	4.8	20 + 2.5 @ 14.4A	
Primary Bkr-RCP1B	5.0	14 + 1.4 @ 25A	Reactor Coolant Pump 1B
Backup Brk-1TB-5	4.8	20 + 2.5 @ 14.4A	
Primary Bkr-RCP1C	5.0	14 + 1.4 @ 25A	Reactor Coolant Pump 1C
Backup Brk-1TC-5	4.8	20 + 2.5 @ 14.4A	
Primary Bkr-RCP1D	5.0	14 + 1.4 @ 25A	Reactor Coolant Pump 1D
Backup Brk-1TD-5	4.8	20 + 2.5 @ 14.4A	
2. 600 VAC-MCC			
1EMXA-2 1D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	NC Pump 1C Thermal Barrier Otlt Auto
Backup Fuse	20	N/A	Isol Vlv 1KC345A
1EMXA-2 1E		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	NC Pump 1A Thermal Barrier Otlt Auto
Backup Fuse	20	N/A	Isol Vlv 1KC394A
1EMXA-2 2A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Cont Air Return Fan 1A Damper
Backup Fuse	20	N/A	1RAF-D-2

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1EMXA-2 2B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	N2 to Prt No. 1 Cont Isol Inside
Backup Fuse	20	N/A	Vlv 1NC54A
1EMXA-2 2C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	RCP Mtg Brg Oil Fill Isol Vlv
Backup Fuse	20	N/A	1NC196A
1EMXA-2 3A		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	Accumulator 1A Disch Isol Vlv
Backup Fuse	30	N/A	1N154A
1EMXA-2 3B		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	Accumulator 1C Disch Isol Vlv
Backup Fuse	30	N/A	1N176A
1EMXA-2 3C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Test Hdr Inside Cont Isol Vlv
Backup Fuse	20	N/A	1N195A
1EMXA-2 4A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	UHI Check Vlv Test Line Isol Vlv
Backup Fuse	20	N/A	~~1N266A~~ 1NI266A

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	Systea Powered
2. 600 VAC-MCC (Continued)			
1EMXA-2 4B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	UHI Check Vlv Test Line Isol Vlv 1NI267A
Backup Fuse	20	N/A	
1EMXA-2 4C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Accum 1A Vent to 1NC34 for Blkout Vlv 1NI430A
Backup Fuse	20	N/A	
1EMXA-5 1B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Pzr Steam Sample Line Inside Cont Isol Vlv 1NM3A
Backup Fuse	20	N/A	
1EMXA-5 2B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Pzr Steam Sample Line Inside Cont Isol Vlv 1NM6A
Backup Fuse	20	N/A	
1EMXA-5 3B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	NC Hotleg 1A Sample Line Cont Isol Vlv 1NM22A
Backup Fuse	20	N/A	
1EMXA-5 2D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	NC Hotleg 1D Sample Line Cont Isol Vlv 1NM25A
Backup Fuse	20	N/A	
1EMXA-2 7A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	SG 1A Upper Shell Sample Cont Isol Vlv 1NM187 A
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1EMXA-2 7B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	SG 1A Blowdown Line Sample Cont Isol
Backup Fuse	20	N/A	Vlv 1NM190A
1EMXA-2 7C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	SG 1C Upper Shell Sample Cont Isol
Backup Fuse	20	N/A	Vlv 1NM207A
1EMXA-2 8A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	SG 1C Blowdown Line Sample Cont Isol
Backup Fuse	20	N/A	Vlv 1NM210A
1EMXA-4 1B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	NC Pump Seal Return Cont Isol Vlv
Backup Fuse	20	N/A	1NV94A
1EMXA-3 3A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	H2 Purge Exh[illegible] Cont Vessel Isol
Backup Fuse	20	N/A	Vlv 1VE5A
1EMXA-3 3B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Cont H2 Purge Blower Inlet Vlv
Backup Fuse	20	N/A	1VE8A
1EMXA-3 3C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	H2 Purge Inlet Cont Vessel Isol
Backup Fuse	20	N/A	Vlv 1VE10A

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1EMXA-3 4A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	H2 Skimmer Fan 2A Suction Isol Vlv 1VX1A
Backup Fuse	20	N/A	
1EMXA-3 5B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	RCDT Pump Disch Cont Isol Vlv 1WL2A
Backup Fuse	20	N/A	
1EMXA-3 5C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	RCDT Vent Cont Isol Vlv 1WL39A
Backup Fuse	20	N/A	
1EMXA-3 6A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	RB Sump Pump Disch Cont Isol Vlv 1WL64A
Backup Fuse	20	N/A	
1EMXA-3 6B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Cpmt Vent Unit Condensate Cont Isol Vlv 1WL321A
Backup Fuse	20	N/A	
1EMXB-4 1B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	NC Pump 1B Thermal Barrier Otlt Auto Isol Vlv 1KC364B
Backup Fuse	20	N/A	
1EMXB-4 1C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	NC Pump 1D Thermal Barrier Auto Isol Vlv 1KC413B
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1EMXB-4 2A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	NC Pumps Return Hdr Pend Inside Isol
Backup Fuse	20	N/A	Vlv 1KC424B
1EMXB-4 2B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Reactor Bldg Drn Hdr Inside Cont
Backup Fuse	20	N/A	Isol Vlv 1KC429B
1EMXB-4 2C		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	Accumulator 1B Disch Isol Vlv
Backup Fuse	30	N/A	1NI65B
1EMXB-4 3D		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	Accumulator 1D Disch Isol Vlv
Backup Fuse	30	N/A	1NI88B
1EMXB-4 3E		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Hotleg Inj Check 1NI124, 1NI128
Backup Fuse	20	N/A	Test Isol Vlv 1NI122B
1EMXB-4 4A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Cont Air Return Fan 1B Damper
Backup Fuse	20	N/A	1RAF-D-4
1EMXB-4 4C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	NI Accum 1A Sample Line Inside
Backup Fuse	20	N/A	Cont Isol Vlv 1NM72B

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1EMXB-4 5A		45 @ 60A	
Primary Bkr	20	~~48 ± 20 @ 40A~~	NI Accum 1B Sample Line Inside
Backup Fuse	20	N/A	Cont Isol Vlv 1NM75B
1EMXB-4 5B		45 @ 60A	
Primary Bkr	20	~~48 ± 20 @ 40A~~	NI Accum 1C Sample Line Inside
Backup Fuse	20	N/A	Cont Isol Vlv 1NM78B
1EMXB-4 5C		45 @ 60A	
Primary Bkr	20	~~48 ± 20 @ 40A~~	Accum 1B Vent to 1NC32 for Blkout
Backup Fuse	20	N/A	Vlv 1NI431B
1EMXB-4 6A		45 @ 60A	
Primary Bkr	20	48 ± 20 @ 40A	NI Accum 1D Sample Line Inside
Backup Fuse	20	N/A	Cont Isol Vlv 1NM81B
1EMXB-4 6B		45 @ 60A	
Primary Bkr	20	~~48 ± 20 @ 40A~~	SG 1B Upper Shell Sample Cont Isol
Backup Fuse	20	N/A	Vlv 1NM197B
1EMXB-4 6C		45 @ 60A	
Primary Bkr	20	48 ± 20 @ 40A	SG 1B Blowdown Line Sample Cont
Backup Fuse	20	N/A	Isol Vlv 1NM200B
1EMXB-4 7B		45 @ 60A	
Primary Bkr	20	48 ± 20 @ 40A	SG 1D Upper Shell Sample Cont Isol
Backup Fuse	20	N/A	Vlv 1NM217B

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1EMXB-4 7C		45 @ 60A	
Primary Bkr	20	~~48 ± 40 @ 40A~~	SG 1D Blowdown Line Sample Cont
Backup Fuse	20	N/A	Isol Vlv 1NM220B
1EMXB-5 1A		45 @ 60A	
Primary Bkr	20	~~48 ± 20 @ 40A~~	H2 Purge Exhaust Cont Vessel Isol
Backup Fuse	20	N/A	Vlv 1VE6B
1EMXB-5 1C		45 @ 60A	
Primary Bkr	20	~~48 ± 20 @ 40A~~	H2 Skimmer Fan 1B Suction Isol
Backup Fuse	20	N/A	Vlv 1VX2B
1EMXC-1A		250 @ 600A	
Primary Bkr	200	~~119 ± 81 @ 600~~	Lower Containment Cooling Unit
Backup Fuse	200	N/A	No. 1A
1EMXC-2A		250 @ 600A	
Primary Bkr	200	~~119 ± 81 @ 600A~~	Lower Containment Cooling Unit
Backup Fuse	200	N/A	No. 1C
1EMXC-3C		110 @ 300A	
Primary Bkr	100	~~170 ± 90 @ 200A~~	Control Rod Drive Vent Fan No. 1A
Backup Fuse	100	N/A	
1EMXC-3D		110 @ 300A	
Primary Bkr	100	~~170 ± 90 @ 200A~~	Control Rod Drive Vent Fan No. 1C
Backup Fuse	100	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1EMXC-4C		110 @ 270A	
Primary Bkr	90	~~170 + 90 @ 180A~~	Containment Air Return Fan No. 1A
Backup Fuse	90	N/A	
1EMXC-4D		110 @ 375A	
Primary Bkr	125	~~170 + 90 @ 250A~~	Hydrogen Recombiner No. 1A
Backup Fuse	125	N/A	
1EMXC-6A		45 @ 120A	
Primary Bkr	40	~~48 + 20 @ 40A~~	Containment Pipe Tunnel Rooster Fan CPT-BF-1A
Backup Fuse	40	N/A	
1EMXC-6B		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	Upper Containment Air Handling Unit 1A
Backup Fuse	30	N/A	
1EMXC-6C		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	Upper Containment Air Hdlg Unit 1C No. 1C
Backup Fuse	30	N/A	
1EMXC-6D		110 @ 270A	
Primary Bkr	90	~~170 + 90 @ 180A~~	Hydrogen Skimmer Fan No. 1
Backup Fuse	90	N/A	
1EMXC-7C		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	Upper Cont Return Air Fan No. 1C
Backup Fuse	30	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1EMXC-7D		450 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Pzr No. 1 Pwr Oper Safety Relief
Backup Fuse	20	N/A	Isol Vlv 1NC33A
1EMXC-8C		450 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Incore Instrumentation Rm Air Hdlg
Backup Fuse	20	N/A	Unit 1A
1EMXC-8D		450 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Upper Containment Return Air Fan
Backup Fuse	20	N/A	No. 1A
~~1EMXC-8F~~ 1EMXA-4 3C		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	NC Loop 1C Discharge to ND System
Backup Fuse	30	N/A	Cont Isol Vlv 1ND 2A
1EMXD-1A		250 @ 600A	
Primary Bkr	200	~~119 + 81 @ 600A~~	Lower Containment Cooling Unit
Backup Fuse	200	N/A	No. 1B
1EMXD-2A		250 @ 600A	
Primary Bkr	200	~~119 + 81 @ 600A~~	Lower Containment Cooling Unit
Backup Fuse	200	N/A	No. 1D
1EMXD-3B		450 @ 120A	
Primary Bkr	40	~~48 + 20 @ 80A~~	Containment Pipe Tunnel Rooster
Backup Fuse	40	N/A	Fan CPT-BF-1B

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1EMXD-3C		110 to 300A	
Primary Bkr	100	~~170 ± 90 @ 200A~~	Control Rod Drive Vent Fan No. 1B
Backup Fuse	100	N/A	
1EMXD-3D		110 to 300A	
Primary Bkr	100	~~170 ± 90 @ 200A~~	Control Rod Drive Vent Fan No. 1D
Backup Fuse	100	N/A	
1EMXD-4C		110 to 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Containment Air Return Fan No. 1B
Backup Fuse	90	N/A	Fan CPT-BF-1A
1EMXD-4D		110 to 375A	
Primary Bkr	125	~~170 ± 90 @ 250A~~	Hydrogen Recombiner No. 1B
Backup Fuse	125	N/A	
1EMXD-6C		45 to 70A	
Primary Bkr	30	~~48 ± 20 @ 60A~~	Upper Containment Air Hdlg Unit
Backup Fuse	30	N/A	No. 1B
1EMXD-6D		45 to 70A	
Primary Bkr	30	~~48 ± 20 @ 60A~~	Upper Containment Air Hdlg Unit
Backup Fuse	30	N/A	No. 1D
1EMXD-6E		110 to 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Hydrogen Skimmer Fan No. 1B
Backup Fuse	90	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1EMXD-7B		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	Upper Cont Return Air Fan=No. 1D
Backup Fuse	30	N/A	
1EMXD-7C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Pzr No. 1 Pwr Oper Safety Relief
Backup Fuse	20	N/A	Isol Vlv 1NC31B
1EMXD-7D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Pzr No. 1 Pwr Oper Safety Relief
Backup Fuse	20	N/A	Isol Vlv 1NC35B
1EMXD-8B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Incore Instrumentation Rm Air Hdlg
Backup Fuse	20	N/A	Unit 1B
1EMXD-8C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Upper Containment Return Air Fan 1B
Backup Fuse	20	N/A	
1EMXD-8D		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	NC Loop 1C Disch to ND System
Backup Fuse	30	N/A	Cont Isol Vlv 1ND1B
1MXM F1A		45 @ 120A	
Primary Bkr	40	~~48 + 20 @ 80A~~	Lighting Pnlbd 1LR14
Backup Fuse	40	N/A	

TLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXM F1B		45 @ 120A	
Primary Bkr	40	~~48 + 20 @ 80A~~	Lighting Pnlbd 1LR15
Backup Fuse	40	N/A	
1MXM F1D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A1 Blower A
Backup Fuse	20	N/A	
1MXM F1E		45 @ 60A	
Primary Bkr	20	48 + 20 @ 40A	Ice Cond AHU 1A2 Blower A
Backup Fuse	20	N/A	
1MXM F2A		45 @ 120A	
Primary Bkr	40	~~48 + 20 @ 80A~~	Lighting Pnlbd 1LR16
Backup Fuse	40	N/A	
1MXM F2B		45 @ 120A	
Primary Bkr	40	~~48 + 20 @ 80A~~	Lighting Pnlbd 1LR17
Backup Fuse	40	N/A	
1MXM F2C		45 @ 75A	
Primary Bkr	25	~~48 + 20 @ 50A~~	Reactor Bldg Equip Hdlg 5 Ton Jib Crane
Backup Fuse	25	N/A	
1MXM F2D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A3 Blower A
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXM F2E		45 @ 60A	
Primary Bkr	20	~~40 + 20 @ 40A~~	Ice Cond AHU 1A4 Blower A
Backup Fuse	20	N/A	
1MXM F3A		45 @ 60A	
Primary Bkr	20	~~40 + 20 @ 40A~~	Ice Cond AHU 1A5 Blower A
Backup Fuse	20	N/A	
1MXM F3B		45 @ 60A	
Primary Bkr	20	~~40 + 20 @ 40A~~	Ice Cond AHU 1A6 Blower A
Backup Fuse	20	N/A	
1MXM F3C		45 @ 60A	
Primary Bkr	20	~~40 + 20 @ 40A~~	Incore Inst Room Sump Pump No. 1
Backup Fuse	20	N/A	
1MXM F3D		110 @ 300A	
Primary Bkr	100	~~170 + 90 @ 200A~~	Upper Cont Welding Recpt
Backup Fuse	100	N/A	
1MXM F4A		45 @ 60A	
Primary Bkr	20	~~40 + 20 @ 40A~~	Ice Cond AHU 1A7 Blower A
Backup Fuse	20	N/A	
1MXM F4B		45 @ 60A	
Primary Bkr	20	~~40 + 20 @ 40A~~	Ice Cond AHU 1A8 Blower A
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXM F4D		110 @ 300A	
Primary Bkr	100	~~170 + 90 @ 200A~~	Welding Feeder
Backup Fuse	100	N/A	
1MXM F5C		110 @ 150A	
Primary Bkr	50	~~85 + 35 @ 100A~~	Ice Cond Floor Cooling Defrost
Backup Fuse	50	N/A	Heater 1A
1MXM F6C		110 @ 150A	
Primary Bkr	60	~~85 + 35 @ 120A~~	Reactor Coolant Drain Tank Pump 1A
Backup Fuse	60	N/A	
1MXM F7A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A9 Blower A
Backup Fuse	20	N/A	
1MXM F7B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A10 Blower A
Backup Fuse	20	N/A	
1MXM F7C		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	Lower Cont Aux Charcoal Filter Fan 1A
Backup Fuse	30	N/A	
1MXM F8A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A11 Blower A
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXM F8B		45 @ 60A	1A12
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU ~~1A4~~ Blower A
Backup Fuse	20	N/A	
1MXM F8C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A13 Blower A
Backup Fuse	20	N/A	
1MXM R1A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B1 Blower A
Backup Fuse	20	N/A	
1MXM R1B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B2 Blower A
Backup Fuse	20	N/A	
1MXM R1C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B3 Blower A
Backup Fuse	20	N/A	
1MXM R1D		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	RCP 1A Oil Lift Pump No. 1
Backup Fuse	30	N/A	
1MXM R2A		45 @ 120A	
Primary Bkr	40	~~48 + 20 @ 80A~~	Lighting Palbd 1LR12
Backup Fuse	40	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXM R2D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B4 Blower A
Backup Fuse	20	N/A	
1MXM R2E		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	RCP 1B Oil Lift Pump No. 1
Backup Fuse	30	N/A	
1MXM R3D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B5 Blower A
Backup Fuse	20	N/A	
1MXM R3E		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B6 Blower A
Backup Fuse	20	N/A	
1MXM R3F		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	RCP 1C Oil Lift Pump No. 1
Backup Fuse	30	N/A	
1MXM R4D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B7 Blower A
Backup Fuse	20	N/A	
1MXM R4E		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B8 Blower A
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXM R4F		45 @ 90A	
Primary Bkr	30	~~48 ± 20 @ 60A~~	RCP 1D Oil Lift Pump No. 1
Backup Fuse	30	N/A	
1MXM R5B		45 @ 60A	
Primary Bkr	20	~~48 ± 20 @ 40A~~	Ice Cond AHU 1B9 Blower A
Backup Fuse	20	N/A	
1MXM R5C		45 @ 60A	
Primary Bkr	20	~~48 ± 20 @ 40A~~	Ice Cond AHU 1B10 Blower A
Backup Fuse	20	N/A	
1MXM R5D		200 @ 525A	
Primary Bkr	175	~~97.5 ± 42.5 @ 525A~~	Ice Cond Equip Pwr Pnlbd 1B
Backup Fuse	175	N/A	
1MXM R6A		45 @ 60A	
Primary Bkr	20	~~48 ± 20 @ 40A~~	Rod Cntrl Cluster Change Fixture Hoist Drive
Backup Fuse	20	N/A	
1MXM R6B		45 @ 60A	
Primary Bkr	20	~~48 ± 20 @ 40A~~	Ice Cond AHU 1B11 Blower A
Backup Fuse	20	N/A	
1MXM R7A		45 @ 60A	
Primary Bkr	20	~~48 ± 20 @ 40A~~	Stud Tensioner Hoist
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXM R7B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Incore Inst Drive 1A Drive 1A
Backup Fuse	20	N/A	
1MXM R7D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B12
Backup Fuse	20	N/A	
1MXM R7E		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B13 Blower A
Backup Fuse	20	N/A	
1MXM R8A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Incore Inst Drive 1B
Backup Fuse	20	N/A	
1MXM R8B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Incore Inst Drive 1C
Backup Fuse	20	N/A	
1MXM R8D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B14 Blower A
Backup Fuse	20	N/A	
1MXM R8E		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B15 Blower A
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXMA-1D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A14 Blower A
Backup Fuse	20	N/A	
1MXMA-1E		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Cont Floor & Equip Sump 1A Pump 1A1
Backup Fuse	20	N/A	Vlv 1VE6B
1MXMA-2A		45 @ 75A	
Primary Bkr	25	~~48 + 20 @ 50A~~	RCPM Maintenance Crane Recpt 1A,
Backup Fuse	25	N/A	1B, 1C & 1D
1MXMA-2B		45 @ 75A	
Primary Bkr	25	~~48 + 20 @ 50A~~	Lighting Pnlbd 1LR6
Backup Fuse	25	N/A	
1MXMA-2C		45 @ 120A	
Primary Bkr	40	~~48 + 20 @ 80A~~	Lighting Pnlbd 1LR18
Backup Fuse	40	N/A	
1MXMA-2D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A15 Blower A
Backup Fuse	20	N/A	
1MXMA-3A		45 @ 75A	
Primary Bkr	25	~~48 + 20 @ 50A~~	Lighting Pnlbd 1LR9
Backup Fuse	25	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXMA-3B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond Equip Access Door 1A
Backup Fuse	20	N/A	
1MXMA-3C		110 @ 150A	
Primary Bkr	50	~~85 + 35 @ 100A~~	Ice Cond Floor Cooling Pump 1A
Backup Fuse	50	N/A	
1MXMA-3D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Cont Floor & Equip Sump 1B Pump 1B1
Backup Fuse	20	N/A	
1MXN-F1A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A1 Blower B
Backup Fuse	20	N/A	
1MXN-F1B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A2 Blower B
Backup Fuse	20	N/A	
1MXN-F1C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A3 Blower B
Backup Fuse	20	N/A	
1MXN-F1D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A4 Blower B
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXN-F2A		45 @ load	
Primary Bkr	20	~~48 ± 20 @ 40A~~	Ice Cond AHU 1A5 Blower B
Backup Fuse	20	N/A	
1MXN-F2B		45 @ load	
Primary Bkr	20	~~48 ± 20 @ 40A~~	Ice Cond AHU 1A6 Blower B
Backup Fuse	20	N/A	
1MXN-F2C		45 @ load	
Primary Bkr	20	~~48 ± 20 @ 40A~~	Ice Cond AHU 1A7 Blower B
Backup Fuse	20	N/A	
1MXN-F2D		45 @ load	
Primary Bkr	20	~~48 ± 20 @ 40A~~	Ice Cond AHU 1A8 Blower B
Backup Fuse	20	N/A	
1MXN-F3A		45 @ 75A	
Primary Bkr	25	~~48 ± 20 @ 50A~~	Lighting Pnlbd 1LR1
Backup Fuse	25	N/A	
1MXN-F3C		45 @ 75A	
Primary Bkr	25	48 ± 20 @ 50A	Lighting Pnlbd 1LR2
Backup Fuse	25	N/A	
1MXN-F3D		45 @ load	
Primary Bkr	20	~~48 ± 20 @ 40A~~	Ice Cond AHU 1A9 Blower B
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXN-F3E		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A10 Blower B
Backup Fuse	20	N/A	
1MXN-F4A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Incore Inst Drive No. 1D
Backup Fuse	20	N/A	
1MXN-F4B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Incore Inst Drive No. 1E
Backup Fuse	20	N/A	
1MXN-F4C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Incore Inst Drive No. 1F
Backup Fuse	20	N/A	
1MXN-F4D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Cont Floor & Equip Sump 1A Pump 1A2
Backup Fuse	20	N/A	
1MXN-F5C		110 @ 180A	
Primary Bkr	60	~~85 + 35 @ 120A~~	Reactor Coolant Drain Tank Pump 1B
Backup Fuse	60	N/A	
1MXN-F6B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Cont Floor & Equip Sump 1B Pump 1B2
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXN-F6C		110 @ 150A	
Primary Bkr	50	~~85 + 35 @ 100A~~	Ice Cond Floor Cooling Defrost Htr
Backup Fuse	50	N/A	1B
1MXN-F7A		45 @ 75A	
Primary Bkr	25	~~48 + 20 @ 50A~~	Lighting Pnlbd 1LR4
Backup Fuse	25	N/A	
1MXN-F7B		45 @ 75A	
Primary Bkr	25	~~48 + 20 @ 50A~~	Lighting Pnlbd 1LR5
Backup Fuse	25	N/A	
1MXN-F7C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Fuel Transfer Sys Reactor Side Fdr
Backup Fuse	20	N/A	
1MXN-F7D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A11 Blower B
Backup Fuse	20	N/A	
1MXN-F8A		45 @ 120A	
Primary Bkr	40	~~48 + 20 @ 80A~~	Lighting Pnlbd 1LR19
Backup Fuse	40	N/A	
1MXN-F8C		45 @ 120A	
Primary Bkr	40	~~48 + 20 @ 80A~~	Lighting Pnlbd 1LR20
Backup Fuse	40	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXN-F8D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A12 Blower B
Backup Fuse	20	N/A	
1MXN-F8E		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A13 Blower B
Backup Fuse	20	N/A	
1MXN-R1D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B1 Blower B
Backup Fuse	20	N/A	
1MXN-R1E		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B2 Blower B
Backup Fuse	20	N/A	
1MXN-R1F		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	RCP 1A Oil Lift Pump No. 2
Backup Fuse	30	N/A	
1MXN-R2C		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	Reactor Cavity Manipulator Crane
Backup Fuse	30	N/A	
1MXN-R2F		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	RCP 1B Oil Lift Pump No. 2
Backup Fuse	30	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & location	Trip Setpoint or Cont Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXN-R3A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B3 Blower B
Backup Fuse	20	N/A	
1MXN-R3B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B4 Blower B
Backup Fuse	20	N/A	
1MXN-R3C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B5 Blower B
Backup Fuse	20	N/A	
1MXN-R3D		45 @ 70A	
Primary Bkr	30	~~48 + 20 @ 60A~~	RCP 1C Oil Lift Pump No. 2
Backup Fuse	30	N/A	
1MXN-R4A		110 @ 150A	
Primary Bkr	50	~~85 + 35 @ 100~~	Ice Cond Bridge Crane
Backup Fuse	50	N/A	
1MXN-R4B		45 @ 70A	
Primary Bkr	30	~~48 + 20 @ 60A~~	RB Equip Hatch Hoist No. 1
Backup Fuse	30	N/A	
1MXN-R4D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B6 Blower B
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXN-R4E		45 @ 90A	
Primary Bkr	30	~~48 + 20 @ 60A~~	RCP 1D Oil Lift Pump No. 2
Backup Fuse	30	N/A	
1MXN-R5D		110 @ 525A	
Primary Bkr	175	~~97.5 + 42.5 @ 525A~~	Ice Cond Equip Pwr Pnlbd 1A
Backup Fuse	175	N/A	
1MXN-R6A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B7 Blower B
Backup Fuse	20	N/A	
1MXN-R6B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B8 Blower B
Backup Fuse	20	N/A	
1MXN-R6C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B9 Blower B
Backup Fuse	20	N/A	
1MXN-R6D		200 @ 300A	
Primary Bkr	100	170 + 90 @ 200A	Welding Fdr
Backup Fuse	100	N/A	
1MXN-R7A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B10 Blower B
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXN-R7B		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B11 Blower B
Backup Fuse	20	N/A	
1MXN-R7C		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B12 Blower B
Backup Fuse	20	N/A	
1MXN-R7D		110 @ 150A	
Primary Bkr	50	~~85 + 35 @ 100A~~	Ice Cond Floor Cooling Pump 1B
Backup Fuse	50	N/A	
1MXN-R8D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B13 Blower B
Backup Fuse	20	N/A	
1MXN-R8E		45 @ 60A	
Primary Bkr	20	48 + 20 @ 40A	Ice Cond AHU 1B14 Blower B
Backup Fuse	20	N/A	
1MXN-R8F		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1B15 Blower B
Backup Fuse	20	N/A	
1MXNA-1B		45 @ 120A	
Primary Bkr	40	48 + 20 @ 80A	Lighting Pnlbd 1LR10
Backup Fuse	40	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXNA-1C		45 @ 120A	
Primary Bkr	40	~~48 + 20 @ 80A~~	Lighting Pnlbd 1LR11
Backup Fuse	40	N/A	
1MXNA-1E		45 @ 90A	
Primary Bkr	30	48 + 20 @ 60A	Lower Cont Aux Charcoal Filter Fan 1B
Backup Fuse	30	N/A	
1MXNA-2B		45 @ 75A	
Primary Bkr	25	48 + 20 @ 50A	Lighting Pnlbd 1LR7
Backup Fuse	25	N/A	
1MXNA--2C		45 @ 75A	
Primary Bkr	25	~~48 + 20 @ 50A~~	Lighting Pnlbd 1LR8
Backup Fuse	25	N/A	
1MXNA-2D		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A14 Blower B
Backup Fuse	20	N/A	
1MXNA-2E		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond AHU 1A15 Blower B
Backup Fuse	20	N/A	
1MXNA-3A		45 @ 60A	
Primary Bkr	20	~~48 + 20 @ 40A~~	2 Ton CRDM Hdlg Jib Crane
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
2. 600 VAC-MCC (Continued)			
1MXNA-3C		45 @ 60 A	
Primary Bkr	20	~~48 + 20 @ 40A~~	NC Pump Motor Drain Tank Pump No. 1
Backup Fuse	20	N/A	
1MXNA-3D		45 @ 60 A	
Primary Bkr	20	~~48 + 20 @ 40A~~	Ice Cond Equip Access Door 1B
Backup Fuse	20	N/A	
SMXC-7D		45 @ 45 A	
Primary Bkr	15	~~48 + 20 @ 30A~~	Unit 1 Personnel Lock
Backup Fuse	15	N/A	
SMXA-F4A		45 @ 45A	
Primary Bkr	15	~~48 + 20 @ 30A~~	Unit 1 Emergency Personnel Lock
Backup Fuse	15	N/A	
3. 600 VAC-Press Htr Pwr Pnls			
Backup Press Htr Pwr Pnl 1A-1A		110 @ 270 A	
Primary Bkr	90	~~170 + 90 @ 180A~~	Pressurizer Heaters 1, 2 & ~~25~~ 22
Backup Fuse	90	N/A	
Backup Press Htr Pwr Pnl 1A-1B		110 @ 270 A	
Primary Bkr	90	~~170 + 90 @ 180A~~	Pressurizer Heaters 5, 6 & 27
Backup Fuse	90	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
3. 600 VAC-Press Htr Pwr Pnls (cont'd)			
Backup Press Htr Pwr Pnl 1A-1C		110 @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 9, 10 & 32
Backup Fuse	90	N/A	
Backup Press Htr Pwr Pnl 1A-2C		110 @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 11, 12 & 35
Backup Fuse	90	N/A	
Backup Press Htr Pwr Pnl 1A-2D		110 @ 270A	
Primary Bkr	90	170 ± 90 @ 180A	Pressurizer Heaters 13, 14 & 37
Backup Fuse	90	N/A	
Backup Press Htr Pwr Pnl 1A-2E		110 @ 270A	
Primary Bkr	90	170 ± 90 @ 180A	Pressurizer Heaters 17, 18 & 42
Backup Fuse	90	N/A	
Backup Press Htr Pwr Pnl 1B-1A		110 @ 270A	
Primary Bkr	90	170 ± 90 @ 180A	Pressurizer Heaters 21, 47 & 48
Backup Fuse	90	N/A	
Backup Press Htr Pwr Pnl 1B-1B		110 @ 270A	
Primary Bkr	90	170 ± 90 @ 180A	Pressurizer Heaters 26, 53 & 54
Backup Fuse	90	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
3. 600 VAC-Press Htr Pwr Pnls (cont'd)			
Backup Press Htr Pwr Pnl 1B-1C		110 @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 31, 59 & 60
Backup Fuse	90	N/A	
Backup Press Htr Pwr Pnl 1B-2C		110 @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 36, 65 & 66
Backup Fuse	90	N/A	
Backup Press Htr Pwr Pnl 1B-2D		110 @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 41, 71 & 72
Backup Fuse	90	N/A	
Backup Press Htr Pwr Pnl 1B-2E		110 @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 46, 77 & 78
Backup Fuse	90	N/A	
Backup Press Htr Pwr Pnl 1C-1A		110 @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 7, 8 & 30
Backup Fuse	90	N/A	
Backup Press Htr Pwr Pnl 1C-1B		110 @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 19, 20 & 45
Backup Fuse	90	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
3. 600 VAC-Press Htr Pwr Pnls (cont'd)			
Press Htr Pwr Pnl 1C-1C		110 @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 24, 51 & 52
Backup Fuse	90	N/A	
Press Htr Pwr Pnl 1C-1D		110 @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 29, 57 & 58
Backup Fuse	90	N/A	
Press Htr Pwr Pnl 1C-2C		110 @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 34, 63 & 64
Backup Fuse	90	N/A	
Press Htr Pwr Pnl 1C-2D		110 @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters ~~30~~ 39, 69 & 70
Backup Fuse	90	N/A	
Press Htr Pwr Pnl 1C-2E		110 @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 44, 75 & 76
Backup Fuse	90	N/A	
Press Htr Pwr Pnl 1D-1A		110 @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 3, 4 & 25
Backup Fuse	90	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
3. 600 VAC-Press Htr Pwr Pnls (cont'd)			
Backup Press Htr Pwr Pnl 1D-1B		No @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 15, 16 & 40
Backup Fuse	90	N/A	
Backup Press Htr Pwr Pnl 1D-1C		No @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 23, 49 & 50
Backup Fuse	90	N/A	
MCC 5AX64-F5A ~~Backup Press Htr Pwr Pnl 1D-1D~~		No @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 28, 55 & 56
Backup Fuse	90	N/A	
Backup Press Htr Pwr Pnl 1D-2C		No @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 33, 61 & 62
Backup Fuse	90	N/A	
Backup Press Htr Pwr Pnl 1D-2D		No @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 38, 67 & 68
Backup Fuse	90	N/A	
Backup Press Htr Pwr Pnl 1D-2E		No @ 270A	
Primary Bkr	90	~~170 ± 90 @ 180A~~	Pressurizer Heaters 43, 73 & 74
Backup Fuse	90	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
4. 120 VAC-Panelboards			
1EKVD-12			
Primary Bkr	20	29 ± 16 @ 40A	Rad Mon Sys Sample Solonoid Vlvs
Backup Fuse	6	N/A	IMISV 5581 & 5583
KRA-22			
Primary Bkr	20	29 ± 16 @ 40A	Rad Mons IEMF9 & IEMF16
Backup Fuse	1	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
4. 120 VAC-Panelboards (cont'd)			
KXA-13		40 @ 60A	
Primary Bkr	20	~~20 ± 16 @ 40A~~	Rad Mon Sys Sample Solenoid Vlvs
Backup Fuse	4	N/A	IMISV 5584, 5585 & 5586
1KM-1		45 @ 90A	
Primary Bkr	30	~~48 ± 20 @ 60A~~	RCP 1A Space Htr
Backup Fuse	30	N/A	
1KM-2		45 @ 90A	
Primary Bkr	30	~~48 ± 20 @ 60A~~	RCP 1C Space Htr
Backup Fuse	30	N/A	
1KM-28		36 @ 60A	
Primary Bkr	20	~~48 ± 20 @ 40A~~	Cont Spray Sys Rh Trans 1NSMT 5400
Backup Fuse	20	N/A	
1KM-30		36 @ 60A	
Primary Bkr	20 ~~30~~	~~48 ± 20 @ 40A~~	Cont Spray Sys Rh Trans 1NSMT 5410
Backup Fuse	20 ~~30~~	N/A	
1KN-1		45 @ 90A	
Primary Bkr	30	~~48 ± 20 @ 60A~~	RCP 1B Space Htr
Backup Fuse	30	N/A	
1KN-2		45 @ 90A	
Primary Bkr	30	~~48 ± 20 @ 60A~~	RCP 1D Space Htr
Backup Fuse	30	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
4. 120 VAC-Panelboards (cont'd)			
1KN-25		36 @ 60A	
Primary Bkr	~~30~~ 20	~~48 ± 20 @ 60A~~	Incore Inst Dellum 1
Backup Fuse	~~30~~ 20	N/A	
1KN-27		36 @ 60A	
Primary Bkr	20	~~48 ± 20 @ 40A~~	Fuel Handling Control Console
Backup Fuse	20	N/A	
~~1KN-29~~ N		36 @ 60A	
Primary Bkr	~~30~~ 20	~~48 ± 20 @ 60A~~	Incore Inst Dellum 2
Backup Fuse	~~30~~ 20	N/A	
5. 250 VDC-Lighting			
RB Deadlight Pnlbd 1DLD #1		40 @ 60A	
Primary Bkr	20	87.5 ± 62.5 @ 40A	Ltg Pnl Nos. 1LR2 & 1LR3
Backup Fuse	20	N/A	
RB Deadlight Pnlbd 1DLD #3		40 @ 60A	
Primary Bkr	20	87.5 ± 62.5 @ 40A	Ltg Pnl Nos. 1LR5 & 1LR6
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
5. 250 VDC-Lighting (cont'd)			
RB Deadlight Pnlbd 1DLD #4		40 @ 60A	
Primary Bkr	20	~~87.5 ± 62.5 @ 40A~~	Ltg Pnl Nos. 1LR7, 1LR8 & 1LR9
Backup Fuse	20	N/A	
RB Deadlight Pnlbd 1DLD #6		40 @ 60A	
Primary Bkr	20	~~87.5 ± 62.5 @ 40A~~	Ltg Pnl Nos. 1LR10 & 1LR13
Backup Fuse	20	N/A	
RB Deadlight Pnlbd 1DLD #7		40 @ 60A	
Primary Bkr	20	~~87.5 ± 62.5 @ 40A~~	Ltg Pnl No. 1LR16
Backup Fuse	20	N/A	

TABLE 3.8-1 (Continued)

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

Device Number & Location	Trip Setpoint or Cont. Rating (Amperes)	Response Time (Seconds)	System Powered
5. 250 VDC-Lighting (cont'd)			
RB Deadlight Pnlbd 1DLD #9		c/o @ 60 A	
Primary Bkr	20	~~87.5 @ 62.5 @ 40A~~	Ltg Pnl Nos. 1LR18, 1LR17
Backup Fuse	20	N/A	
MCC SMX6-F5G			
Primary Bkr	20	45 @ 60 A	Standby Makeup P. to Cont.
Backup Fuse	20	N/A	Sump Isol. Vlv. 1NV1012C
MCC SMX6-F46			
Primary Bkr	20	45 @ 60 A	Standby Makeup P. to Cont.
Backup Fuse	20	N/A	Sump Isol. Vlv. 1NV1013C