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**DUKE POWER**

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U. S. Nuclear Regulatory Commission  
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Subject: McGuire Nuclear Station  
Dockets Nos. 50-369, -370  
Selected Licensee Commitments Manual (SLC)  
Tables 16.8-1a, 16.8-1b and 16.11-1

Gentlemen:

Attached are seven copies of the latest revisions to the McGuire Selected Licensee Commitment (SLC) Manual involving changes to Tables 16.8-1a, 16.8-1b and 16.11-1. The SLC Manual is Chapter 16.0 of the McGuire FSAR. This manual contains commitments and other station issues that warrant control, but are not appropriate for Technical Specifications. The SLC Manual is updated as needed during the year.

For questions regarding these revisions, please contact Dwain Caldwell at (704) 875 - 4328.

Very truly yours,

T. C. McMeekin

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## UNIT 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-RCPlA	5.0	15.4 @ 25A	Reactor Coolant Pump 1A
Backup Brk-1TA-5	5.0	16.5 @ 20A	
Primary Bkr-RCPlB	5.0	15.4 @ 25A	Reactor Coolant Pump 1B
Backup Brk-1TB-5	5.0	16.5 @ 20A	
Primary Bkr-RCPlC	5.0	15.4 @ 25A	Reactor Coolant Pump 1C
Backup Brk-1TC-5	5.0	16.5 @ 20A	
Primary Bkr-RCPlD	5.0	15.4 @ 25A	Reactor Coolant Pump 1D
Backup Brk-1TD-5	5.0	16.5 @ 20A	
2. 600 VAC-MCC			
1EMXA-2 1D			
Primary Bkr	20	45 @ 60A	NC Pump 1C Thermal Barrier
Backup Fuse	20	N.A.	Outlet Auto Isol Vlv 1KC345A
1EMXA-2 1E			
Primary Bkr	20	45 @ 60A	NC Pump 1A Thermal Barrier
Backup Fuse	20	N.A.	Outlet Auto Isol Vlv 1KC394A
1EMXA-2 2A			
Primary Bkr	20	45 @ 60A	Cont Air Return Fan 1A Damper
Backup Fuse	20	N.A.	1RAF-D-2
1EMXA-2 2B			
Primary Bkr	20	45 @ 60A	N2 to Prt Cont Isol Inside
Backup Fuse	20	N.A.	Vlv 1NC54A
1EMXA-2 2C			
Primary Bkr	20	45 @ 60A	RCP Mtg Brg Oil Fill Isol
Backup Fuse	20	N.A.	Vlv 1NC196A
1EMXA-2 3A			
Primary Bkr	30	45 @ 90A	Accumulator 1A Disch Isol
Backup Fuse	30	N.A.	Vlv 1NI54A

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## UNIT 1 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 3B	Primary Bkr	30	45 @ 90A	Accumulator 1C Disch Isol Vlv 1NI76A
	Backup Fuse	30	N.A.	
1EMXA-2 3C	Primary Bkr	20	45 @ 60A	Test Hdr Inside Cont Isol Vlv 1NI95A
	Backup Fuse	20	N.A.	
1EMXA-2 4A	Primary Bkr	Note 1 20	45 @ 60A	UHI Check Vlv Test Line Isol Vlv 1NI266A
	Backup Fuse	20	N.A.	
1EMXA-2 4B	Primary Bkr	Note 1 20	45 @ 60A	UHI Check Vlv Test Line Isol Vlv 1NI267A
	Backup Fuse	20	N.A.	
1EMXA-2 4C	Primary Bkr	20	45 @ 60A	Accum 1A Vent to 1NC34 for Blkout Vlv 1NI430A
	Backup Fuse	20	N.A.	
1EMXA-2 5A	Primary Bkr	20	45 @ 60A	RN Containment Isolation Vlv 1RN253A
	Backup Fuse	20	N/A	
1EMXA-2 5B	Primary Bkr	20	45 @ 60A	RN Containment Isolation Vlv 1RN276A
	Backup Fuse	20	N/A	
1EMXA-3 2C	Primary Bkr	20	45 @ 60A	RV Containment Isolation Vlv 1RV76A
	Backup Fuse	20	N/A	
1EMXA-5 1B	Primary Bkr	20	45 @ 60A	Pzr Steam Sample Line Inside Cont Isol Vlv 1NM3A
	Backup Fuse	20	N.A.	
1EMXA-5 2C	Primary Bkr	20	45 @ 60A	Pzr Steam Sample Line Inside Cont Isol Vlv 1NM6A
	Backup Fuse	20	N.A.	

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## UNIT 1 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-5 3B			
Primary Bkr	20	45 @ 60A	NC Hotleg 1A Sample Line Cont
Backup Fuse	20	N.A.	Isol Vlv 1NM22A
1EMXA-5 2D			
Primary Bkr	20	45 @ 60A	NC Hotleg 1D Sample Line Cont
Backup Fuse	20	N.A.	Isol Vlv 1NM25A
1EMXA-2 7A			
Primary Bkr	20	45 @ 60A	SG 1A Upper Shell Sample Cont
Backup Fuse	20	N.A.	Isol Vlv 1NM187A
1EMXA-2 7B			
Primary Bkr	20	45 @ 60A	SG 1A Blowdown Line Sample
Backup Fuse	20	N.A.	Cont Isol Vlv 1NM190A
1EMXA-2 7C			
Primary Bkr	20	45 @ 60A	SG 1C Upper Shell Sample
Backup Fuse	20	N.A.	Cont Isol Vlv 1NM207A
1EMXA-2 8A			
Primary Bkr	20	45 @ 60A	SG 1C Blowdown Line Sample
Backup Fuse	20	N.A.	Cont Isol Vlv 1NM210A
1EMXA-4 1B			
Primary Bkr	20	45 @ 60A	NC Pump Seal Return Cont
Backup Fuse	20	N.A.	Vlv 1NV94AC
1EMXA-3 3A			
Primary Bkr	20	45 @ 60A	H2 Purge Exhaust Cont Vessel
Backup Fuse	20	N.A.	Isol Vlv 1VE5A
1EMXA-3 4A			
Primary Bkr	20	45 @ 60A	H2 Skimmer Fan 1A Suction
Backup Fuse	20	N.A.	Isol Vlv 1VX1A
1EMXA-3 5B			
Primary Bkr	20	45 @ 60A	RCDT Pump Disch Cont Isol
Backup Fuse	20	N.A.	Vlv 1WL2A



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## UNIT 1 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 5C			
Primary Bkr	20	45 @ 60A	RCDT Vent Cont Isol Vlv
Backup Fuse	20	N.A.	1WL39A
1EMXA-3 6A			
Primary Bkr	20	45 @ 60A	RB Sump Pump Disch Cont Isol
Backup Fuse	20	N.A.	Vlv 1WL64A
1EMXA-3 6B			
Primary Bkr	20	45 @ 60A	Cont Vent Unit Condensate
Backup Fuse	20	N.A.	Cont Isol Vlv 1WL321A
1EMXB-4 1B			
Primary Bkr	20	45 @ 60A	NC Pump 1B Thermal Barrier
Backup Fuse	20	N.A.	Outlet Auto Isol Vlv 1KC364B
1EMXB-4 1C			
Primary Bkr	20	45 @ 60A	NC Pump 1D Thermal Barrier
Backup Fuse	20	N.A.	Auto Isol Vlv 1KC413B
1EMXB-4 2A			
Primary Bkr	20	45 @ 60A	NC Pumps Return Hdr Pend Inside
Backup Fuse	20	N.A.	Isol Vlv 1KC424B
1EMXB-4 2B			
Primary Bkr	20	45 @ 60A	Reactor Bldg Drn Hdr Inside Cont
Backup Fuse	20	N.A.	Isol Vlv 1KC429B
1EMXB-4 2C			
Primary Bkr	30	45 @ 90A	Accumulator 1B Disch Isol Vlv
Backup Fuse	30	N.A.	1NI65B
1EMXB-4 3D			
Primary Bkr	30	45 @ 90A	Accumulator 1D Disch Isol Vlv
Backup Fuse	30	N.A.	1NI88B
1EMXB-4 3E			
Primary Bkr	20	45 @ 60A	Hotleg Inj Check 1NI124, 1NI128
Backup Fuse	20	N.A.	Test Isol Vlv 1NI122B

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## UNIT 1 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 4A			
Primary Bkr	20	45 @ 60A	Cont Air Return Fan 1B Damper
Backup Fuse	20	N.A.	1RAF-D-4
1EMXB-4 4C			
Primary Bkr	20	45 @ 60A	NI Accum 1A Sample Line Inside
Backup Fuse	20	N.A.	Cont Isol Vlv 1NM72B
1EMXB-4 5A			
Primary Bkr	20	45 @ 60A	NI Accum 1B Sample Line
Backup Fuse	20	N.A.	Inside Cont Isol Vlv 1NM75B
1EMXB-4 5B			
Primary Bkr	20	45 @ 60A	NI Accum 1C Sample Line
Backup Fuse	20	N.A.	Inside Cont Isol Vlv 1NM78B
1EMXB-4 5C			
Primary Bkr	20	45 @ 60A	Accum 1B Vent to 1NC32 for
Backup Fuse	20	N.A.	Blkout Vlv 1NI431B
1EMXB-4 6A			
Primary Bkr	20	45 @ 60A	NI Accum 1D Sample Line
Backup Fuse	20	N.A.	Inside Cont Isol Valve 1NM81B
1EMXB-4 6B			
Primary Bkr	20	45 @ 50A	SG 1B Upper Shell Sample
Backup Fuse	20	N.A.	Cont Isol Vlv 1NM197B
1EMXB-4 6C			
Primary Bkr	20	45 @ 60A	SG 1B Blowdown Line Sample
Backup Fuse	20	N.A.	Cont Isol Vlv 1NM200B
1EMXB-4 7B			
Primary Bkr	20	45 @ 60A	SG 1D Uper Shell Sample
Backup Fuse	20	N.A.	Cont Isol Vlv 1NM217B
1EMXB-4 7C			
Primary Bkr	20	45 @ 60A	SG 1D Blowdown Line Sample
Backup Fuse	20	N.A.	Cont Isol Vlv 1NM220B

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## UNIT 1 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-5 1B			
Primary Bkr	20	45 @ 60A	RV Containment Isolation
Backup Fuse	20	N/A	Vlv 1RV33B
1EMXB-5 1C			
Primary Bkr	20	45 @ 60A	H2 Skimmer Fan 1B Suction
Backup Fuse	20	N.A.	Isol Vlv 1VX2B
1EMXC-1A			
Primary Bkr	200	250 @ 600A	Lower Containment Cooling
Backup Fuse	200	N.A.	Unit No. 1A
1EMXC-2A			
Primary Bkr	200	250 @ 600A	Lower Containment Cooling
Backup Fuse	200	N.A.	Unit No. 1C
1EMXC-3C			
Primary Bkr	100	110 @ 300A	Control Rod Drive Vent Fan
Backup Fuse	100	N.A.	No. 1A
1EMXC-3D			
Primary Bkr	100	110 @ 300A	Control Rod Drive Vent Fan
Backup Fuse	100	N.A.	No. 1C
1EMXC-4C			
Primary Bkr	90	110 @ 270A	Containment Air Return Fan
Backup Fuse	90	N.A.	No. 1A
1EMXC-4D			
Primary Bkr	90	110 @ 270A	Hydrogen Recombiner
Backup Fuse	90	N.A.	No. 1A
1EMXC-6A			
Primary Bkr	40	45 @ 120A	Containment Pipe Tunnel
Backup Fuse	40	N.A.	Booster Fan CPT-BF-1A
1EMXC-6B			
Primary Bkr	30	45 @ 90A	Upper Containment Air
Backup Fuse	30	N.A.	Handling Unit 1A

TABLE 16.8-1a (Page 7 of 28)

## UNIT 1 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-6C			
Primary Bkr	30	45 @ 90A	Upper Containment Air Hdlg
Backup Fuse	30	N.A.	Unit 1C
1EMXC-6D			
Primary Bkr	90	110 @ 270A	Hydrogen Skimmer Fan
Backup Fuse	90	N.A.	No. 1A
1EMXC-7C			
Primary Bkr	30	45 @ 90A	Upper Cont Return Air Fan
Backup Fuse	30	N.A.	No. 1C
1EMXC-7D			
Primary Bkr	20	45 @ 60A	Pzr Pwr Oper Relief
Backup Fuse	20	N.A.	Isol Vlv 1NC33A
1EMXC-8C			
Primary Bkr	20	45 @ 60A	Incore Instrumentation Rm
Backup Fuse	20	N.A.	Air Hdlg Unit 1A
1EMXC-8D			
Primary Bkr	20	45 @ 60A	Upper Containment Return
Backup Fuse	20	N.A.	Air Fan No. 1A
1EMXA-4 3C			
Primary Bkr	30	45 @ 90A	NC Loop 1C Discharge to ND
Backup Fuse	30	N.A.	System Cont Isol Vlv 1ND2A,C
1EMXD-1A			
Primary Bkr	200	250 @ 600A	Lower Containment Cooling
Backup Fuse	200	N.A.	Unit No. 1B
1EMXD-2A			
Primary Bkr	200	250 @ 600A	Lower Containment Cooling
Backup Fuse	200	N.A.	Unit No. 1D
1EMXD-3B			
Primary Bkr	40	45 @ 120A	Containment Pipe Tunnel
Backup Fuse	40	N.A.	Booster Fan CPT-BF-1B

TABLE 16.8-1a (Page 8 of 28)

## UNIT 1 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			
Primary Bkr	100	110 @ 300A	Control Rod Drive Vent Fan
Backup Fuse	100	N.A.	No. 1B
1EMXD-3D			
Primary Bkr	100	110 @ 300A	Control Rod Drive Vent Fan
Backup Fuse	100	N.A.	No. 1D
1EMXD-4C			
Primary Bkr	90	110 @ 270A	Containment Air Return Fan
Backup Fuse	90	N.A.	No. 1B Fan CPT-BF-1A
1EMXD-4D			
Primary Bkr	90	110 @ 270A	Hydrogen Recombiner No. 1B
Backup Fuse	90	N.A.	
1EMXD-6C			
Primary Bkr	30	45 @ 90A	Upper Containment Air Hdlg Unit
Backup Fuse	30	N.A.	No. 1B
1EMXD-6D			
Primary Bkr	30	45 @ 90A	Upper Containment Air Hdlg Unit
Backup Fuse	30	N.A.	No. 1D
1EMXD-6E			
Primary Bkr	90	110 @ 270A	Hydrogen Skimmer Fan No. 1B
Backup Fuse	90	N.A.	
1EMXD-7B			
Primary Bkr	30	45 @ 90A	Upper Cont Return Air Fan
Backup Fuse	30	N.A.	No. 1D
1EMXD-7C			
Primary Bkr	20	45 @ 60A	Pzr No. 1 Pwr Oper Safety
Backup Fuse	20	N.A.	Relief Isol Vlv 1NC31B
1EMXD-7D			
Primary Bkr	20	45 @ 60A	Pzr No. 1 Pwr Oper Safety
Backup Fuse	20	N.A.	Relief Isol Vlv 1NC35B

TABLE 16.8-1a (Page 9 of 28)

## UNIT 1 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-8B			
Primary Bkr	20	45 @ 60A	Incore Instrumentation Rm
Backup Fuse	20	N.A.	Air Hdlg Unit 1B
1EMXD-8C			
Primary Bkr	20	45 @ 60A	Upper Containment Return Air
Backup Fuse	20	N.A.	Fan 1B
1EMXD-8D			
Primary Bkr	30	45 @ 90A	NC Loop 1C Disch to ND System
Backup Fuse	30	N.A.	Cont Isol Vlv 1ND1B
1MXM F1A			
Primary Bkr	40	45 @ 120A	Lighting Pnlbd 1LR14
Backup Fuse	40	N.A.	
1MXM F1B			
Primary Bkr	40	45 @ 120A	Lighting Pnlbd 1LR15
Backup Fuse	40	N.A.	
1MXM F1C			
Primary Bkr	30	45 @ 90A	S/G Boost Fan 1C
Backup Fuse	30	N/A	
1MXM F1D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A1 Blower A
Backup Fuse	20	N.A.	
1MXM F1E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A2 Blower A
Backup Fuse	20	N.A.	
1MXM F2A			
Primary Bkr	40	45 @ 120A	Lighting Pnlbd 1LR16
Backup Fuse	40	N.A.	
1MXM F2B			
Primary Bkr	40	45 @ 120A	Lighting Pnlbd 1LR17
Backup Fuse	40	N.A.	

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## UNIT 1 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 F2C			
Primary Bkr	25	45 @ 75A	Reactor Bldg Equip Hdlg 5 Ton
Backup Fuse	25	N.A.	Jib Crane
1MXM F2D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A3 Blower A
Backup Fuse	20	N.A.	
1MXM F2E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A4 Blower A
Backup Fuse	20	N.A.	
1MXM F3A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A5 Blower A
Backup Fuse	20	N.A.	
1MXM F3B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A6 Blower A
Backup Fuse	20	N.A.	
1MXM F3C			
Primary Bkr	20	45 @ 60A	Incore Inst Room Sump Pump
Backup Fuse	20	N.A.	
1MXM F3D			
Primary Bkr	100	110 @ 300A	Upper Cont Welding Recpt.
Backup Fuse	100	N.A.	
1MXM F4A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A7 Blower A
Backup Fuse	20	N.A.	
1MXM F4B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A8 Blower A
Backup Fuse	20	N.A.	
1MXM F4D			
Primary Bkr	100	110 @ 300A	Welding Feeder
Backup Fuse	100	N.A.	

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## UNIT 1 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 F5C			
Primary Bkr	50	110 @ 150A	Ice Cond Floor Cooling
Backup Fuse	50	N.A.	Defrost Heater 1A
1MXM F6C			
Primary Bkr	60	110 @ 180A	Reactor Coolant Drain Tank
Backup Fuse	60	N.A.	Pump 1A
1MXM F7A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A9 Blower A
Backup Fuse	20	N.A.	
1MXM F7B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A10 Blower A
Backup Fuse	20	N.A.	
1MXM F7C			
Primary Bkr	30	45 @ 90A	Lower Cont Aux Charcoal Filter
Backup Fuse	30	N.A.	Fan 1A
1MXM F8A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A11 Blower A
Backup Fuse	20	N.A.	
1MXM F8B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A12 Blower A
Backup Fuse	20	N.A.	
1MXM F8C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A13 Blower A
Backup Fuse	20	N.A.	
1MXM R1A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B1 Blower A
Backup Fuse	20	N.A.	
1MXM R1B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B2 Blower A
Backup Fuse	20	N.A.	



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## UNIT 1 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 R1C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B3 Blower A
Backup Fuse	20	N.A.	
1MXM R1D			
Primary Bkr	30	45 @ 90A	RCP 1A Oil Lift Pump
Backup Fuse	30	N.A.	
1MXM R2A			
Primary Bkr	40	45 @ 120A	Lighting Pnlbd 1LR12
Backup Fuse	40	N.A.	
1MXM R2D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B4 Blower A
Backup Fuse	20	N.A.	
1MXM R2E			
Primary Bkr	30	45 @ 90A	RCP 1B Oil Lift Pump
Backup Fuse	30	N.A.	
1MXM R3D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B5 Blower A
Backup Fuse	20	N.A.	
1MXM R3E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B6 Blower A
Backup Fuse	20	N.A.	
1MXM R3F			
Primary Bkr	30	45 @ 90A	RCP 1C Oil Lift Pump
Backup Fuse	30	N.A.	
1MXM R4D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B7 Blower A
Backup Fuse	20	N.A.	
1MXM R4E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B8 Blower A
Backup Fuse	20	N.A.	

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## UNIT 1 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			
Primary Bkr	30	45 @ 90A	RCP 1D Oil Lift Pump
Backup Fuse	30	N.A.	
1MXM R5B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B9 Blower A
Backup Fuse	20	N.A.	
1MXM R5C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B10 Blower A
Backup Fuse	20	N.A.	
1MXM R5D			
Primary Bkr	175	200 @ 525A	Ice Cond Equip Pwr Pnlbd 1B
Backup Fuse	175	N.A.	
1MXM R6A			
Primary Bkr	20	45 @ 60A	Rod Cntrl Cluster Change
Backup Fuse	20	N.A.	Fixture Hoist Drive
1MXM R6B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B11 Blower A
Backup Fuse	20	N.A.	
1MXM R7A			
Primary Bkr	20	45 @ 60A	Stud Tensioner Hoist
Backup Fuse	20	N.A.	
1MXM R6E			
Primary Bkr	150	110 @ 450A	175 Ton Polar Crane
Backup Fuse	150	N.A.	
1MXM R7B			
Primary Bkr	20	45 @ 60A	Incore Inst Drive 1A
Backup Fuse	20	N.A.	
1MXM R7D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B12
Backup Fuse	20	N.A.	

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## UNIT 1 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 R7E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B13 Blower A
Backup Fuse	20	N.A.	
1MXM R8A			
Primary Bkr	20	45 @ 60A	Incore Inst Drive 1B
Backup Fuse	20	N.A.	
1MXM R8B			
Primary Bkr	20	45 @ 60A	Incore Inst Drive 1C
Backup Fuse	20	N.A.	
1MXM R8D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B14 Blower A
Backup Fuse	20	N.A.	
1MXM R8E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B15 Blower A
Backup Fuse	20	N.A.	
1MXMA-1B			
Primary Bkr	30	45 @ 90A	Vent Press Boost Fan 1B
Backup Fuse	30	N/A	
1MXMA-1D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A14 Blower A
Backup Fuse	20	N.A.	
1MXMA-1E			
Primary Bkr	20	45 @ 60A	Cont Floor & Equip Sump 1A
Backup Fuse	20	N.A.	Pump 1A1
1MXMA-2A			
Primary Bkr	25	45 @ 75A	RCPM Maintenance Crane Recpt
Backup Fuse	25	N.A.	1A, 1B, 1C, & 1D
1MXMA-2B			
Primary Bkr	25	45 @ 75A	Lighting Pnlbd 1LR6
Backup Fuse	25	N.A.	

TABLE 16.8-1a (Page 15 of 28)

## UNIT 1 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-2C			
Primary Bkr	40	45 @ 120A	Lighting Pnlbd 1LR18
Backup Fuse	40	N.A.	
1MXMA-2D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A15 Blower A
Backup Fuse	20	N.A.	
1MXMA-3A			
Primary Bkr	25	45 @ 75A	Lighting Pnlbd 1LR9
Backup Fuse	25	N.A.	
1MXMA-3B			
Primary Bkr	20	45 @ 60A	Ice Cond Equip Access
Backup Fuse	20	N.A.	Door 1A
1MXMA-3C			
Primary Bkr	50	110 @ 150A	Ice Cond Floor Cooling
Backup Fuse	50	N.A.	Pump 1A
1MXMA-3D			
Primary Bkr	20	45 @ 60A	Cont Floor & Equip Sump 1B
Backup Fuse	20	N.A.	Pump 1B1
1MXN-F1A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A1 Blower B
Backup Fuse	20	N.A.	
1MXN-F1B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A2 Blower B
Backup Fuse	20	N.A.	
1MXN-F1C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A3 Blower B
Backup Fuse	20	N.A.	
1MXN-F1D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A4 Blower B
Backup Fuse	20	N.A.	

TABLE 16.8-1a (Page 16 of 28)

## UNIT 1 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			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A5 Blower B
Backup Fuse	20	N.A.	
1MXN-F2B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A6 Blower B
Backup Fuse	20	N.A.	
1MXN-F2C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A7 Blower B
Backup Fuse	20	N.A.	
1MXN-F2D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A8 Blower B
Backup Fuse	20	N.A.	
1MXN-F3A			
Primary Bkr	25	45 @ 75A	Lighting Pnlbd 1LR1
Backup Fuse	25	N.A.	
1MXN-F3B			
Primary Bkr	30	45 @ 90A	S/G Booster Fan 1B
Backup Fuse	30	N/A	
1MXN-F3C			
Primary Bkr	25	45 @ 75A	Lighting Pnlbd 1LR2
Backup Fuse	25	N.A.	
1MXN-F3D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A9 Blower B
Backup Fuse	20	N.A.	
1MXN-F3E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A10 Blower B
Backup Fuse	20	N.A.	
1MXN-F4A			
Primary Bkr	20	45 @ 60A	Incore Inst Drive No. 1D
Backup Fuse	20	N.A.	

TABLE 16.8-1a (Page 17 of 28)

## UNIT 1 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-F4B			
Primary Bkr	20	45 @ 60A	Incore Inst Drive No. 1E
Backup Fuse	20	N.A.	
1MXN-F4C			
Primary Bkr	20	45 @ 60A	Incore Inst Drive No. 1F
Backup Fuse	20	N.A.	
1MXN-F4D			
Primary Bkr	20	45 @ 60A	Cont Floor & Equip Sump 1A
Backup Fuse	20	N.A.	Pump 1A2
1MXN-F5C			
Primary Bkr	60	110 @ 180A	Reactor Coolant Drain Tank
Backup Fuse	60	N.A.	Pump 1B
1MXN-F6B			
Primary Bkr	20	45 @ 60A	Cont Floor & Equip Sump 1B
Backup Fuse	20	N.A.	Pump 1B2
1MXN-F6C			
Primary Bkr	50	110 @ 150A	Ice Cond Floor Cooling
Backup Fuse	50	N.A.	Defrost Htr 1B
1MXN-F7A			
Primary Bkr	25	45 @ 75A	Lig .ing Pnlbd 1LR4
Backup Fuse	25	N.A.	
1MXN-F7B			
Primary Bkr	25	45 @ 75A	Lighting Pnlbd 1LR5
Backup Fuse	25	N.A.	
1MXN-F7C			
Primary Bkr	20	45 @ 60A	Fuel Transfer Sys Reactor
Backup Fuse	20	N.A.	Side Fdr
1MXN-F7D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A11 Blower B
Backup Fuse	20	N.A.	

TABLE 16.8-1a (Page 18 of 28)

## UNIT 1 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-F8B			
Primary Bkr	30	45 @ 90A	S/G Booster Fan 1A
Backup Fuse	30	N/A	
1MXN-F8D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A12 Blower B
Backup Fuse	20	N.A.	
1MXN-F8E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A13 Blower B
Backup Fuse	20	N.A.	
1MXN-R1D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B1 Blower B
Backup Fuse	20	N.A.	
1MXN-R1E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B2 Blower B
Backup Fuse	20	N.A.	
1MXN-R1F			
Primary Bkr	30	45 @ 90A	RCP 1A Oil Lift Pump No. 2
Backup Fuse	30	N.A.	
1MXN-R2C			
Primary Bkr	30	45 @ 90A	Reactor Cavity Manipulator
Backup Fuse	30	N.A.	Crane
1MXN-R2F			
Primary Bkr	30	45 @ 90A	RCP 1B Oil Lift Pump No. 2
Backup Fuse	30	N.A.	
1MXN-R3A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B3 Blower B
Backup Fuse	20	N.A.	
1MXN-R3B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B4 Blower B
Backup Fuse	20	N.A.	

TABLE 16.8-1a (Page 19 of 28)

## UNIT 1 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-R3C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B5 Blower B
Backup Fuse	20	N.A.	
1MXN-R3D			
Primary Bkr	30	45 @ 90A	RCP 1C Oil Lift Pump No. 2
Backup Fuse	30	N.A.	
1MXN-R4A			
Primary Bkr	50	110 @ 150A	Ice Cond Bridge Crane
Backup Fuse	50	N.A.	
1MXN-R4B			
Primary Bkr	30	45 @ 90A	RB Equip Hatch Hoist No. 1
Backup Fuse	30	N.A.	
1MXN-R4C			
Primary Bkr	30	45 @ 90A	S/G Booster Fan 1A
Backup Fuse	30	N/A	
1MXN-R4D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B6 Blower B
Backup Fuse	20	N.A.	
1MXN-R4E			
Primary Bkr	30	45 @ 90A	RCP 1D Oil Lift Pump No. 2
Backup Fuse	30	N.A.	
1MXN-R5D			
Primary Bkr	175	200 @ 525A	Ice Cond Equip Pwr Pnlbd 1A
Backup Fuse	175	N.A.	
1MXN-R6A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B7 Blower B
Backup Fuse	20	N.A.	
1MXN-R6B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B8 Blower B
Backup Fuse	20	N.A.	



TABLE 16.8-1a (Page 20 of 28)

## UNIT 1 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-R6C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B9 Blower B
Backup Fuse	20	N.A.	
1MXN-R6D			
Primary Bkr	100	110 @ 300A	Welding Fdr
Backup Fuse	100	N.A.	
1MXN-R7A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B10 Blower B
Backup Fuse	20	N.A.	
1MXN-R7B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B11 Blower B
Backup Fuse	20	N.A.	
1MXN-R7C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B12 Blower B
Backup Fuse	20	N.A.	
1MXN-R7D			
Primary Bkr	50	110 @ 150A	Ice Cond Floor Cooling
Backup Fuse	50	N.A.	Pump 1B
1MXN-R8D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B13 Blower B
Backup Fuse	20	N.A.	
1MXN-R8E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B14 Blower B
Backup Fuse	20	N.A.	
1MXN-R8F			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1B15 Blower B
Backup Fuse	20	N.A.	
1MXNA-1E			
Primary Bkr	30	45 @ 90A	Lower Cont Aux Charcoal
Backup Fuse	30	N.A.	Filter Fan 1B

TABLE 16.8-1a (Page 21 of 28)

## UNIT 1 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-2A			
Primary Bkr	30	45 @ 90A	Vent Press Boost Fan 1A
Backup Fuse	30	N/A	
1MXNA-2B			
Primary Bkr	25	45 @ 75A	Lighting Pnlbd 1LR7
Backup Fuse	25	N.A.	
1MXNA-2C			
Primary Bkr	25	45 @ 75A	Lighting Pnlbd 1LR8
Backup Fuse	25	N.A.	
1MXNA-2D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A14 Blower B
Backup Fuse	20	N.A.	
1MXNA-2E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 1A15 Blower B
Backup Fuse	20	N.A.	
1MXNA-3A			
Primary Bkr	20	45 @ 60A	2 Ton CRDM Hdlg Jib Crane
Backup Fuse	20	N.A.	
1MXNA-3B			
Primary Bkr	30	45 @ 90A	Cont Air Compressor
Backup Fuse	30	N/A	
SMXG-F3G			
Primary Bkr	20	45 @ 60A	Standby Makeup Pump to
Backup Fuse	20	N.A.	Cont Sump Isol Vlv INV1012C
SMXG-F4G			
Primary Bkr	20	45 @ 60A	Standby Makeup Pump to NC
Backup Fuse	20	N.A.	Pump Seals Isol Vlv INV1013C
1MXNA-3C			
Primary Bkr	20	45 @ 60A	NC Pump Motor Drain Tank
Backup Fuse	20	N.A.	Pump No. 1

TABLE 16.8-1a (Page 22 of 28)

## UNIT 1 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-3D			
Primary Bkr	20	45 @ 60A	Ice Cond Equip Access Door 1B
Backup Fuse	20	N.A.	
SMXC-7D			
Primary Bkr	15	45 @ 45A	Unit 1 Personnel Lock
Backup Fuse	15	N.A.	
SMXA-F4A			
Primary Bkr	15	45 @ 45A	Unit 1 Emergency Personnel Lock
Backup Fuse	15	N.A.	
3. 600 VAC-Press Htr Pwr Pnl's			
Backup Press Htr Pwr Pnl 1A-1A			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 1, 2, & 22
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 1A-1B			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 5, 6, & 27
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 1A-1C			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 9, 10, & 32
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 1A-2C			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 11, 12, & 35
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 1A-2D			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 13, 14 & 37
Backup Fuse	90	N.A.	

TABLE 16.8-1a (Page 23 of 28)

## UNIT 1 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 Pnl's (Continued)			
Backup Press Htr Pwr Pnl 1A-2E			
Primary Bkr	10	110 @ 270A	Pressurizer Heaters 17, 18,
Backup Fuse	90	N.A.	& 42
Backup Press Htr Pwr Pnl 1B-1A			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 21, 47,
Backup Fuse	90	N.A.	& 48
Backup Press Htr Pwr Pnl 1B-1B			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 26, 53,
Backup Fuse	90	N.A.	& 54
Backup Press Htr Pwr Pnl 1B-1C			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 31, 59,
Backup Fuse	90	N.A.	& 60
Backup Press Htr Pwr Pnl 1B-2C			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 36, 65,
Backup Fuse	90	N.A.	& 66
Backup Press Htr Pwr Pnl 1B-2D			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 41, 71,
Backup Fuse	90	N.A.	& 72
Backup Press Htr Pwr Pnl 1B-2E			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 46, 77,
Backup Fuse	90	N.A.	& 78
Backup Press Htr Pwr Pnl 1C-1A			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 7, 8,

TABLE 16.8-1a (Page 24 of 28)

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	TRIP SETPOINT OR CONT. RATING (AMPERES)	RESPONSE TIME (SECONDS)	SYSTEM POWERED
Backup Fuse	90	N.A.	& 30

TABLE 16.8-1a (Page 25 of 28)

## UNIT 1 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 Pnl's (Continued)			
Backup Press Htr Pwr Pnl 1C-1B			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 19, 20,
Backup Fuse	90	N.A.	& 45
Backup Press Htr Pwr Pnl 1C-1C			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 24, 51,
Backup Fuse	90	N.A.	& 52
Backup Press Htr Pwr Pnl 1C-1D			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 29, 57,
Backup Fuse	90	N.A.	& 58
Backup Press Htr Pwr Pnl 1C-2C			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 34, 63,
Backup Fuse	90	N.A.	& 64
Backup Press Htr Pwr Pnl 1C-2D			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 39, 69,
Backup Fuse	90	N.A.	& 70
Backup Press Htr Pwr Pnl 1C-2E			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 44, 75,
Backup Fuse	90	N.A.	& 76
Backup Press Htr Pwr Pnl 1D-1A			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 3, 4,
Backup Fuse	90	N.A.	& 25
Backup Press Htr Pwr Pnl 1D-1B			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 15, 16,
Backup Fuse	90	N.A.	& 40

TABLE 16.8-1a (Page 26 of 28)

## UNIT 1 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 Pnl (Continued)			
Backup Press Htr Pwr Pnl 1D-1C			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 23, 49, & 50
Backup Fuse	90	N.A.	
MCC SMXG-F5A			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 28, 55, & 56
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 1D-2C			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 33, 61, & 62
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 1D-2D			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 38, 67, & 68
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 1D-2E			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 43, 73, & 74
Backup Fuse	90	N.A.	
4. 120 VAC-Panelboards			
1KM-1			
Primary Bkr	30	45 @ 90A	RCP 1B Space Htr
Backup Fuse	30	N.A.	
1KM-2			
Primary Bkr	30	45 @ 90A	RCP 1C Space Htr
Backup Fuse	30	N.A.	
1KN-1			
Primary Bkr	30	45 @ 90A	RCP 1B Space Heater
Backup Fuse	30	N.A.	

TABLE 16.8-1a (Page 27 of 28)

## UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	TRIP SETPOINT OR CONT. RATING (AMPERES)	RESPONSE TIME (SECONDS)	SYSTEM POWERED
4. 120 VAC-Panelboards (continued)			
1KN-2			
Primary Bkr	30	45 @ 90A	RCP 1D Space Heater
Backup Fuse	30	N.A.	
1KN-27			
Primary Bkr	20	35 @ 60A	Fuel Handling Control
Backup Fuse	20	N.A.	Console
5. 250 VDC-Lighting			
RB Deadlight Pnlbd			
1DLD #1			
Primary Bkr	20	40 @ 60A	Ltg Pnl Nos. 1LR1 & 1LR2
Backup Fuse	20	N.A.	
RB Deadlight Pnlbd			
1DLD #3			
Primary Bkr	20	40 @ 60A	Ltg Pnl Nos. 1LR4, 1LR5, &
Backup Fuse	20	N.A.	1LR6
RB Deadlight Pnlbd			
1DLD #4			
Primary Bkr	20	40 @ 60A	Ltg Pnl Nos. 1LR7, 1LR8,
Backup Fuse	20	N.A.	& 1LR9
RB Deadlight Pnlbd			
1DLD #6			
Primary Bkr	20	40 @ 60A	Ltg Pnl Nos. 1LR12
Backup Fuse	20	N.A.	
RB Deadlight Pnlbd			
1DLD #7			
Primary Bkr	20	40 @ 60A	Ltg Pnl No. 1LR16
Backup Fuse	20	N.A.	



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## UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	TRIP SETPOINT OR CONT. RATING (AMPERES)	RESPONSE TIME (SECONDS)	SYSTEM POWERED
5. 250 VDC-Lighting (continued)			
RB Deadlight Pnlbd			
1DLD #9			
Primary Bkr	20	40 @ 60A	Ltg Pnl Nos. 1LR18 & 1LR17
Backup Fuse	20	N.A.	
6. 600 VAC - LC			
Outage Power Fuse Box 1A			
Primary Fuse	150	N/A	Upper Containment Safety
Backup Fuse	150	N/A	Switch 1A
Primary Fuse	150	N/A	Upper Containment Safety
Backup Fuse	150	N/A	Switch 1B
Primary Fuse	200	N/A	Outage Power Distr. Pnl 1A
Backup Fuse	200	N/A	
Primary Fuse	225	N/A	Outage Power Distr. Pnl 1B
Backup Fuse	225	N/A	

## UNIT 2 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-RCP2A	5.0	15.4 @ 25A	Reactor Coolant Pump 2A
Backup Brk-2TA-5	5.0	16.5 @ 20A	
Primary Bkr-RCP2B	5.0	15.4 @ 25A	Reactor Coolant Pump 2B
Backup Brk-2TB-5	5.0	16.5 @ 20A	
Primary Bkr-RCP2C	5.0	15.4 @ 25A	Reactor Coolant Pump 2C
Backup Brk-2TC-5	5.0	16.5 @ 20A	
Primary Bkr-RCP2D	5.0	15.4 @ 25A	Reactor Coolant Pump 2D
Backup Brk-2TD-5	5.0	16.5 @ 20A	
2. 600 VAC-MCC			
2EMXA-2 1D			
Primary Bkr	20	45 @ 60A	NC Pump 2C Thermal Barrier
Backup Fuse	20	N.A.	Outlet Auto Isol Vlv 2KC345A
2EMXA-2 1E			
Primary Bkr	20	45 @ 60A	NC Pump 2A Thermal Barrier
Backup Fuse	20	N.A.	Outlet Auto Isol Vlv 2KC394A
2EMXA-2 2A			
Primary Bkr	20	45 @ 60A	Cont Air Return Fan 2A Damper
Backup Fuse	20	N.A.	2RAF-D-2
2EMXA-2 2B			
Primary Bkr	20	45 @ 60A	N2 to Prt Cont Isol Inside
Backup Fuse	20	N.A.	Vlv 2NC54A
2EMXA-2 2C			
Primary Bkr	20	45 @ 60A	RCP Mtg Brg Oil Fill Isol
Backup Fuse	20	N.A.	Vlv 2NC196A
2EMXA-2 3A			
Primary Bkr	30	45 @ 90A	Accumulator 2A Disch Isol
Backup Fuse	30	N.A.	Vlv 2NI54A

## UNIT 2 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)				
2EMXA-2 3B				
Primary Bkr	30		45 @ 90A	Accumulator 2C Disch Isol
Backup Fuse	30		N.A.	Vlv 2NI76A
2EMXA-2 3C				
Primary Bkr	20		45 @ 60A	Test Hdr Inside Cont Isol
Backup Fuse	20		N.A.	Vlv 2NI95A
2EMXA-2 4A				
Primary Bkr	Note 1 20		45 @ 60A	UHI Check Vlv Test Line Isol
Backup Bkr	20		N.A.	Vlv 2NI266A
2EMXA-2 4B				
Primary Bkr	20		45 @ 60A	PALS Pnl Smple Ret to
Backup Fuse	20		N/A	Cont Isol Vlv 2WL1302A
2EMXA-2 4C				
Primary Bkr	20		45 @ 60A	Accum 2A Vent to 2NC34 for
Backup Fuse	20		N.A.	Blkout Vlv 2NI430A
2EMXA-2 5A				
Primary Bkr	20		45 @ 60A	RN Containment Isolation
Backup Fuse	20		N/A	Valve 2RN253A
2EMXA-2 5B				
Primary Bkr	20		45 @ 60A	RN Containment Isolation
Backup Fuse	20		N/A	Valve 2RN276A
2EMXA-5 1B				
Primary Bkr	20		45 @ 60A	Pzr Steam Sample Line Inside
Backup Fuse	20		N.A.	Cont Isol Vlv 2NM3A
2EMXA-5 2C				
Primary Bkr	20		45 @ 60A	Pzr Steam Sample Line Inside
Backup Fuse	20		N.A.	Cont Isol Vlv 2NM6A
2EMXA-5 3B				
Primary Bkr	20		45 @ 60A	NC Hotleg 2A Sample Line Cont
Backup Fuse	20		N.A.	Isol Vlv 2NM22A

## UNIT 2 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)			
2EMXA-5 2D			
Primary Bkr	20	45 @ 60A	NC Hotleg 2D Sample Line Cont
Backup Fuse	20	N.A.	Isol Vlv 2NM25A
2EMXA-2 7A			
Primary Bkr	20	45 @ 60A	SG 2A Upper Shell Sample Cont
Backup Fuse	20	N.A.	Isol Vlv 2NM187A
2EMXA-2 7B			
Primary Bkr	20	45 @ 60A	SG 2A Blowdown Line Sample
Backup Fuse	20	N.A.	Cont Isol Vlv 2NM190A
2EMXA-2 7C			
Primary Bkr	20	45 @ 60A	SG 2C Upper Shell Sample
Backup Fuse	20	N.A.	Cont Isol Vlv 2NM207A
2EMXA-2 8A			
Primary Bkr	20	45 @ 60A	SG 2C Blowdown Line Sample
Backup Fuse	20	N.A.	Cont Isol Vlv 2NM210A
2EMXA-4 1B			
Primary Bkr	20	45 @ 60A	NC Pump Seal Return Cont
Backup Fuse	20	N.A.	Vlv 2NV94AC
2EMXA-3 1A			
Primary Bkr	20	45 @ 60A	Lower Cont. Vent. Unit Discharge
Backup Fuse	20	N.A.	Cont. Isol. Vlv. 2RV76A
2EMXA-3 3A			
Primary Bkr	20	45 @ 60A	H2 Purge Exhaust Cont
Backup Fuse	20	N.A.	Vessel Isol Vlv 2VE5A
2EMXA-3 3B			
Primary Bkr	20	45 @ 60A	Cont H2 Purge Blower
Backup Fuse	20	N.A.	Inlet Valve 2VE8A

## UNIT 2 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)			
2EMXA-3 3C			
Primary Bkr	20	45 @ 60A	H2 Purge Inlet Cont
Backup Fuse	20	N.A.	Vessel Isol Vlv 2VE10A
2EMXA-4 2C			
Primary Bkr	20	45 @ 60A	Standby Makeup Pump Inlet
Backup Fuse	20	N.A.	Isol Valve 2NV842AC
2EMXA-3 4A			
Primary Bkr	20	45 @ 60A	H2 Skimmer Fan 2A Suction
Backup Fuse	20	N.A.	Isol Vlv 2VX1A
2EMXA-3 5B			
Primary Bkr	20	45 @ 60A	RCDT Pump Disch Cont Isol
Backup Fuse	20	N.A.	Vlv 2WL2A
2EMXA-3 5C			
Primary Bkr	20	45 @ 60A	RCDT Vent Cont Isol
Backup Fuse	20	N.A.	Vlv 2WL39A
2EMXA-3 6A			
Primary Bkr	20	45 @ 60A	RB Sump Pump Disch Cont
Backup Fuse	20	N.A.	Isol Vlv 2WL64A
2EMXA-3 6B			
Primary Bkr	20	45 @ 60A	Cont Vent Unit Condensate
Backup Fuse	20	N.A.	Cont Isol Vlv 2WL321A
2EMXB-4 1B			
Primary Bkr	20	45 @ 60A	NC Pump 2B Thermal Barrier
Backup Fuse	20	N.A.	Outlet Auto Isol Vlv 2KC364B
2EMXB-4 1C			
Primary Bkr	20	45 @ 60A	NC Pump 2D Thermal Barrier
Backup Fuse	20	N.A.	Auto Isol Vlv 2KC413B

## UNIT 2 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)			
2EMXB-4 2A			
Primary Bkr	20	45 @ 60A	NC Pumps Return Hdr Pend
Backup Fuse	20	N.A.	Inside Isol Vlv 2KC424B
2EMXB-4 2B			
Primary Bkr	20	45 @ 60A	Reactor Bldg Drn Hdr
Backup Fuse	20	N.A.	Inside Cont Isol Vlv 2KC429B
2EMXB-4 2C			
Primary Bkr	30	45 @ 90A	Accumulator 2B Disch Isol Vlv
Backup Fuse	30	N.A.	2NI65B
2EMXB-4 3D			
Primary Bkr	30	45 @ 90A	Accumulator 2D Disch Isol Vlv
Backup Fuse	30	N.A.	2NI88B
2EMXB-4 3E			
Primary Bkr	20	45 @ 60A	Hotleg Inj Check 2NI124,
Backup Fuse	20	N.A.	2NI128 Test Isol Vlv 2NI122B
2EMXB-4 4A			
Primary Bkr	20	45 @ 60A	Cont Air Return Fan 2B
Backup Fuse	20	N.A.	Damper 2RAF-D-4
2EMXB-4 4C			
Primary Bkr	20	45 @ 60A	NI Accum 2A Sample Line
Backup Fuse	20	N.A.	Inside Cont Isol Vlv 2NM72B
2EMXA-4 3B			
Primary Bkr	20	45 @ 60A	Standby Makeup Cont Isol
Backup Fuse	20	N.A.	Valve Outside 2NV849AC
2EMXB-4 5A			
Primary Bkr	20	45 @ 60A	NI Accum 2B Sample Line
Backup Fuse	20	N.A.	Inside Cont Isol Vlv 2NM75B

## UNIT 2 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)			
2EMXB-4 5B			
Primary Bkr	20	45 @ 60A	NI Accum 2C Sample Line
Backup Fuse	20	N.A.	Inside Cont Isol Vlv 2NM78B
2EMXB-4 5C			
Primary Bkr	20	45 @ 60A	Accum 2B Vent to 2NC32
Backup Fuse	20	N.A.	for Blkout Vlv 2NI431B
2EMXB-4 6A			
Primary Bkr	20	45 @ 60A	NI Accum 2D Sample Line
Backup Fuse	20	N.A.	Inside Cont Isol Valve 2NM81B
2EMXB-4 6B			
Primary Bkr	20	45 @ 60A	SG 2B Upper Shell Sample
Backup Fuse	20	N.A.	Cont Isol Vlv 2NM197B
2EMXB-4 6C			
Primary Bkr	20	45 @ 60A	SG 2B Blowdown Line Sample
Backup Fuse	20	N.A.	Cont Isol Vlv 2NM200B
2EMXB-4 7B			
Primary Bkr	20	45 @ 60A	SG 2D Uper Shell Sample
Backup Fuse	20	N.A.	Cont Isol Vlv 2NM217B
2EMXB-4 7C			
Primary Bkr	20	45 @ 60A	SG 2D Blowdown Line Sample
Backup Fuse	20	N.A.	Cont Isol Vlv 2NM220B
2EMXB-5 1A			
Primary Bkr	20	45 @ 60A	H2 Purge Exhaust Cont Vessel
Backup Fuse	20	N.A.	Isol Vlv 2VE6B
2EMXB-5 1B			
Primary Bkr	20	45 @ 60A	Lower Cont. Vent. Unit Supply
Backup Fuse	20	N.A.	Cont. Isol. Vlv. 2RV33B

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## UNIT 2 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)			
2EMXB-5 1C			
Primary Bkr	20	45 @ 60A	H2 Skimmer Fan 2B Suction
Backup Fuse	20	N.A.	Isol Vlv 2VX2B
2EMXC-1A			
Primary Bkr	200	250 @ 600A	Lower Containment Cooling
Backup Fuse	200	N.A.	Unit No. 2A
2EMXC-2A			
Primary Bkr	200	250 @ 600A	Lower Containment Cooling
Backup Fuse	200	N.A.	Unit No. 2C
2EMXC-3C			
Primary Bkr	100	110 @ 300A	Control Rod Drive Vent Fan
Backup Fuse	100	N.A.	No. 2A
2EMXC-3D			
Primary Bkr	100	110 @ 300A	Control Rod Drive Vent Fan
Backup Fuse	100	N.A.	No. 2C
2EMXC-4C			
Primary Bkr	90	110 @ 270A	Containment Air Return Fan
Backup Fuse	90	N.A.	No. 2A
2EMXC-4D			
Primary Bkr	90	110 @ 270A	Hydrogen Recombiner
Backup Fuse	90	N.A.	No. 2A
2EMXC-6A			
Primary Bkr	40	45 @ 120A	Containment Pipe Tunnel
Backup Fuse	40	N.A.	Booster Fan CPT-BF-2A
2EMXC-6B			
Primary Bkr	30	45 @ 90A	Upper Containment Air Handling
Backup Fuse	30	N.A.	Unit 2A
2EMXC-6C			
Primary Bkr	30	45 @ 90A	Upper Containment Air Hdlg
Backup Fuse	30	N.A.	Unit 2C No. 2C



TABLE 16.8-1b (Page 8 of 30)

## UNIT 2 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)			
2EMXC-6D			
Primary Bkr	90	110 @ 270A	Hydrogen Skimmer Fan 2A
Backup Fuse	90	N.A.	
2EMXC-7C			
Primary Bkr	20	45 @ 60A	Upper Cont Return Air Fan
Backup Fuse	20	N.A.	No. 2C
2EMXC-7D			
Primary Bkr	20	45 @ 60A	Pzr Pwr Oper Relief
Backup Fuse	20	N.A.	Isol Vlv 2NC33A
2EMXC-8C			
Primary Bkr	20	45 @ 60A	Incore Instrumentation Rm
Backup Fuse	20	N.A.	Air Hdlg Unit 2A
2EMXC-7B			
Primary Bkr	20	45 @ 60A	Upper Containment Return
Backup Fuse	20	N.A.	Air Fan No. 2A
2EMXA-4 3C			
Primary Bkr	30	45 @ 90A	NC Loop 2C Discharge to ND
Backup Fuse	30	N.A.	System Cont Isol Vlv 2ND 2AC
2EMXD-1A			
Primary Bkr	200	250 @ 600A	Lower Containment Cooling Unit
Backup Fuse	200	N.A.	No. 2B
2EMXD-2A			
Primary Bkr	200	250 @ 600A	Lower Containment Cooling Unit
Backup Fuse	200	N.A.	No. 2D
2EMXD-3B			
Primary Bkr	40	45 @ 120A	Containment Pipe Tunnel Booster
Backup Fuse	40	N.A.	Fan CPT-BF-2B
2EMXD-3C			
Primary Bkr	100	110 @ 300A	Control Rod Drive Vent
Backup Fuse	100	N.A.	Fan No. 2B

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## UNIT 2 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)			
2EMXD-3D			
Primary Bkr	100	110 @ 300A	Control Rod Drive Vent
Backup Fuse	100	N.A.	Fan No. 2D
2EMXD-4C			
Primary Bkr	90	110 @ 270A	Containment Air Return
Backup Fuse	90	N.A.	Fan No. 2B Fan CPT-BF-2B
2EMXD-4D			
Primary Bkr	90	110 @ 270A	Hydrogen Recombiner
Backup Fuse	90	N.A.	No. 2B
2EMXD-6C			
Primary Bkr	30	45 @ 90A	Upper Containment Air
Backup Fuse	30	N.A.	Hdlg Unit No. 2B
2EMXD-6D			
Primary Bkr	30	45 @ 90A	Upper Containment Air Hdlg
Backup Fuse	30	N.A.	Unit No. 2D
2EMXD-6E			
Primary Bkr	90	110 @ 270A	Hydrogen Skimmer Fan
Backup Fuse	90	N.A.	No. 2B
2EMXD-7B			
Primary Bkr	20	45 @ 60A	Upper Cont Return Air Fan
Backup Fuse	20	N.A.	No. 2D
2EMXD-7C			
Primary Bkr	20	45 @ 60A	Pzr Pwr Oper Safety Relief
Backup Fuse	20	N.A.	Isol Vlv 2NC31B
2EMXD-7D			
Primary Bkr	20	45 @ 60A	Pzr Pwr Oper Relief
Backup Fuse	20	N.A.	Isol Vlv 2NC35B

## UNIT 2 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)			
2EMXD-8B			
Primary Bkr	20	45 @ 60A	Incore Instrumentation
Backup Fuse	20	N.A.	Rm Air Hdlg Unit 2B
2EMXD-5C			
Primary Bkr	20	45 @ 60A	Upper Containment Return
Backup Fuse	20	N.A.	Air Fan 2B
2EMXD-8D			
Primary Bkr	30	45 @ 90A	NC Loop 2C Disch to ND
Backup Fuse	30	N.A.	System Cont Isol Vlv 2ND1B
2MXM F2A			
Primary Bkr	40	45 @ 120A	Lighting Pnlbd 2LR14
Backup Fuse	40	N.A.	
2MXM F2B			
Primary Bkr	40	45 @ 120A	Lighting Pnlbd 2LR15
Backup Fuse	40	N.A.	
2MXM F2C			
Primary Bkr	20	45 @ 60A	Pzr Compt Fan B
Backup Fuse	20	N/A	
2MXM F2D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A1 Blower A
Backup Fuse	20	N.A.	
2MXM F2E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A2 Blower A
Backup Fuse	20	N.A.	
2MXM F3A			
Primary Bkr	40	45 @ 120A	Lighting Pnlbd 2LR16
Backup Fuse	40	N.A.	

## UNIT 2 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)			
2MXM F3B			
Primary Bkr	40	45 @ 120A	Lighting Pnlbd 2LR17
Backup Fuse	40	N.A.	
2MXM F3C			
Primary Bkr	25	45 @ 75A	Reactor Bldg Equip Hdlg 5 Ton
Backup Fuse	25	N.A.	Jib Crane
2MXM F3D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A3 Blower A
Backup Fuse	20	N.A.	
2MXM F3E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A4 Blower A
Backup Fuse	20	N.A.	
2MXM F4A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A5 Blower A
Backup Fuse	20	N.A.	
2MXM F4B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A6 Blower A
Backup Fuse	20	N.A.	
2MXM F4C			
Primary Bkr	20	45 @ 60A	Incore Inst Room Sump Pump
Backup Fuse	20	N.A.	
2MXM F4D			
Primary Bkr	100	110 @ 300A	Upper Cont Welding Recpt
Backup Fuse	100	N.A.	
2MXM F5A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A7 Blower A
Backup Fuse	20	N.A.	

## UNIT 2 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)			
2MXM F5B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A8 Blower A
Backup Fuse	20	N.A.	
2MXM F5D			
Primary Bkr	100	110 @ 300A	Welding Feeder
Backup Fuse	100	N.A.	
2MXM F1C			
Primary Bkr	50	110 @ 150A	Ice Cond Floor Cooling
Backup Fuse	50	N.A.	Defrost Heater 2A
2MXM F8C			
Primary Bkr	60	110 @ 180A	Reactor Coolant Drain Tank
Backup Fuse	60	N.A.	Pump 2A
2MXM F6A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A9 Blower A
Backup Fuse	20	N.A.	
2MXM F6B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A10 Blower A
Backup Fuse	20	N.A.	
2MXM F6C			
Primary Bkr	30	45 @ 90A	Lower Cont Aux Charcoal
Backup Fuse	30	N.A.	Filter Fan 2A
2MXM F7A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A11 Blower A
Backup Fuse	20	N.A.	
2MXM F7B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A12 Blower A
Backup Fuse	20	N.A.	

## UNIT 2 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)			
2MXM F7C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A13 Blower A
Backup Fuse	20	N.A.	
2MXM R1A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B1 Blower A
Backup Fuse	20	N.A.	
2MXM R1B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B2 Blower A
Backup Fuse	20	N.A.	
2MXM R1C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B3 Blower A
Backup Fuse	20	N.A.	
2MXM R1D			
Primary Bkr	30	45 @ 90A	RCP 2A Oil Lift Pump
Backup Fuse	30	N.A.	
2MXM R2A			
Primary Bkr	40	45 @ 120A	Lighting Pnlbd 2LR12
Backup Fuse	40	N.A.	
2MXM R2D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B4 Blower A
Backup Fuse	20	N.A.	
2MXM R2E			
Primary Bkr	30	45 @ 90A	RCP 2B Oil Lift Pump
Backup Fuse	30	N.A.	
2MXM R3D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B5 Blower A
Backup Fuse	20	N.A.	

## UNIT 2 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)			
2MXM R3E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B6 Blower A
Backup Fuse	20	N.A.	
2MXM R3F			
Primary Bkr	30	45 @ 90A	RCP 2C Oil Lift Pump
Backup Fuse	30	N.A.	
2MXM R4D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B7 Blower A
Backup Fuse	20	N.A.	
2MXM R4E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B8 Blower A
Backup Fuse	20	N.A.	
2MXM R4F			
Primary Bkr	30	45 @ 90A	RCP 2D Oil Lift Pump
Backup Fuse	30	N.A.	
2MXM R5B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B9 Blower A
Backup Fuse	20	N.A.	
2MXM R5C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B10 Blower A
Backup Fuse	20	N.A.	
2MXM R5D			
Primary Bkr	175	200 @ 525A	Ice Cond Equip Pwr Pnlbd 2B
Backup Fuse	175	N.A.	
2MXM R6A			
Primary Bkr	20	45 @ 60A	Rod Cntrl Cluster
Backup Fuse	20	N.A.	Change Fixture Hoist Drive

## UNIT 2 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)			
2MXM R6B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B11 Blower A
Backup Fuse	20	N.A.	
2MXM R7A			
Primary Bkr	20	45 @ 60A	Stud Tensioner Hoist
Backup Fuse	20	N.A.	
2MXM R6D			
Primary Bkr	150	110 @ 450A	175 Ton Polar Crane
Backup Fuse	150	N.A.	
2MXM R7B			
Primary Bkr	20	45 @ 60A	Incore Inst Drive 2A
Backup Fuse	20	N.A.	
2MXM R7C			
Primary Bkr	30	45 @ 90A	S/G Compt 2D Fan
Backup Fuse	30	n/a	
2MXM R7D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B12
Backup Fuse	20	N.A.	
2MXM R7E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B13 Blower A
Backup Fuse	20	N.A.	
2MXM R8A			
Primary Bkr	20	45 @ 60A	Incore Inst Drive 2B
Backup Fuse	20	N.A.	
2MXM R8B			
Primary Bkr	20	45 @ 60A	Incore Inst Drive 2C
Backup Fuse	20	N.A.	



TABLE 16.8-1b (Page 16 of 30)

## UNIT 2 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)			
2MXM R8C			
Primary Bkr	30	45 @ 30A	S/G Compt 2A Fan
Backup Fuse	30	N/A	
2MXM R8D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B14 Blower A
Backup Fuse	20	N.A.	
2MXM R8E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B15 Blower A
Backup Fuse	20	N.A.	
2MXMA-1D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A14 Blower A
Backup Fuse	20	N.A.	
2MXMA-1E			
Primary Bkr	20	45 @ 60A	Cont Floor & Equip Sump 2A
Backup Fuse	20	N.A.	Pump 2A1
2MXM-R2C			
Primary Bkr	20	45 @ 60A	RCPM Maintenance Crane Recpt 2A,
Backup Fuse	20	N.A.	2B, 2C, & 2D
2MXMA-2B			
Primary Bkr	40	45 @ 120A	Lighting Pnlbd 2LR6
Backup Fuse	40	N.A.	
2MXMA-2C			
Primary Bkr	40	45 @ 120A	Lighting Pnlbd 2LR18
Backup Fuse	40	N.A.	
2MXMA-2D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A15 Blower A
Backup Fuse	20	N.A.	

## UNIT 2 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)			
2MXMA-3A			
Primary Bkr	25	45 @ 75A	Lighting Pnlbd 2LR9
Backup Fuse	25	N.A.	
2MXMA-3B			
Primary Bkr	20	45 @ 60A	Ice Cond Equip Access
Backup Fuse	20	N.A.	Door 2A
2MXMA-3C			
Primary Bkr	50	110 @ 150A	Ice Cond Floor Cooling
Backup Fuse	50	N.A.	Pump 2A
2MXMA-3D			
Primary Bkr	20	45 @ 60A	Cont Floor & Equip Sump 2B
Backup Fuse	20	N.A.	Pump 2B1
2MXN-F2A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A1 Blower B
Backup Fuse	20	N.A.	
2MXN-F2B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A2 Blower E
Backup Fuse	20	N.A.	
2MXN-F2C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A3 Blower B
Backup Fuse	20	N.A.	
2MXN-F2D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A4 Blower B
Backup Fuse	20	N.A.	
2MXN-F3A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A5 Blower B
Backup Fuse	20	N.A.	

## UNIT 2 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)			
2MXN-F3B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A6 Blower B
Backup Fuse	20	N.A.	
2MXN-F3C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A7 Blower B
Backup Fuse	20	N.A.	
2MXN-F3D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A8 Blower B
Backup Fuse	20	N.A.	
2MXN-F4A			
Primary Bkr	25	45 @ 75A	Lighting Pnlbd 2LR1
Backup Fuse	25	N.A.	
2MXN-F4B			
Primary Bkr	30	45 @ 90A	S/G Compt 2C Fan
Backup Fuse	30	N/A	
2MXN-F4C			
Primary Bkr	25	45 @ 75A	Lighting Pnlbd 2LR2
Backup Fuse	25	N.A.	
2MXN-F4D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A9 Blower B
Backup Fuse	20	N.A.	
2MXN-F4E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A10 Blower B
Backup Fuse	20	N.A.	
2MXN-F5A			
Primary Bkr	20	45 @ 60A	Incore Inst Drive No. 2D
Backup Fuse	20	N.A.	

## UNIT 2 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)			
2MXN-F5B			
Primary Bkr	20	45 @ 60A	Incore Inst Drive No. 2E
Backup Fuse	20	N.A.	
2MXN-F5C			
Primary Bkr	20	45 @ 60A	Incore Inst Drive No. 2F
Backup Fuse	20	N.A.	
2MXN-F5D			
Primary Bkr	20	45 @ 60A	Cont Floor & Equip Sump 2A
Backup Fuse	20	N.A.	Pump 2A2
2MXN-F1C			
Primary Bkr	60	110 @ 180A	Reactor Coolant Drain Tank
Backup Fuse	60	N.A.	Pump 2B
2MXN-F8B			
Primary Bkr	20	45 @ 60A	Cont Floor & Equip Sump 2B
Backup Fuse	20	N.A.	Pump 2B2
2MXN-F8C			
Primary Bkr	50	110 @ 150A	Ice Cond Floor Cooling
Backup Fuse	50	N.A.	Defrost Htr 2B
2MXN-F6A			
Primary Bkr	25	45 @ 75A	Lighting Pnlbd 2LR4
Backup Fuse	25	N.A.	
2MXN-F6B			
Primary Bkr	40	45 @ 120A	Lighting Pnlbd 2LR5
Backup Fuse	40	N.A.	
2MXN-F6C			
Primary Bkr	20	45 @ 60A	Fuel Transfer Sys Reactor Side Fdr
Backup Fuse	20	N.A.	

## UNIT 2 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)			
2MXN-F6D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A11 Blower B
Backup Fuse	20	N.A.	
2MXN-F7B			
Primary Bkr	30	45 @ 90A	Pzr Compt Fan A
Backup Fuse	30	N/A	
2MXN-F7D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A12 Blower B
Backup Fuse	20	N.A.	
2MXN-F7E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A13 Blower B
Backup Fuse	20	N.A.	
2MXN-R1D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B1 Blower B
Backup Fuse	20	N.A.	
2MXN-R1E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B2 Blower B
Backup Fuse	20	N.A.	
2MXN-R1F			
Primary Bkr	30	45 @ 90A	RCP 2A Oil Lift Pump No. 2
Backup Fuse	30	N.A.	
2MXN-R2C			
Primary Bkr	30	45 @ 90A	Reactor Cavity Manipulator
Backup Fuse	30	N.A.	Crane
2MXN-R2F			
Primary Bkr	30	45 @ 90A	RCP 2E Oil Lift Pump No. 2
Backup Fuse	30	N.A.	

## UNIT 2 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)			
2MXN-R3A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B3 Blower B
Backup Fuse	20	N.A.	
2MXN-R3B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B4 Blower B
Backup Fuse	20	N.A.	
2MXN-R3C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B5 Blower B
Backup Fuse	20	N.A.	
2MXN-R3D			
Primary Bkr	30	45 @ 90A	RCP 2C Oil Lift Pump No. 2
Backup Fuse	30	N.A.	
2MXN-R4A			
Primary Bkr	50	110 @ 150A	Ice Cond Bridge Crane
Backup Fuse	50	N.A.	
2MXN-R4B			
Primary Bkr	30	45 @ 90A	RB Equip Hatch Hoist
Backup Fuse	30	N.A.	
2MXN-R4C			
Primary Bkr	25	45 @ 75A	S/G Compt 2B Fan
Backup Fuse	25	N/A	
2MXN-R4D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B6 Blower B
Backup Fuse	20	N.A.	
2MXN-R4E			
Primary Bkr	30	45 @ 90A	RCP 2D Oil Lift Pump No. 2
Backup Fuse	30	N.A.	

## UNIT 2 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)			
2MXN-R5D			
Primary Bkr	175	200 @ 525A	Ice Cond Equip Pwr Pnlbd 2A
Backup Fuse	175	N.A.	
2MXN-R6A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B7 Blower B
Backup Fuse	20	N.A.	
2MXN-R6B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B8 Blower B
Backup Fuse	20	N.A.	
2MXN-R6C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B9 Blower B
Backup Fuse	20	N.A.	
2MXN-R6D			
Primary Bkr	100	110 @ 300A	Welding Fdr
Backup Fuse	100	N.A.	
2MXN-R7A			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B10 Blower B
Backup Fuse	20	N.A.	
2MXN-R7B			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B11 Blower B
Backup Fuse	20	N.A.	
2MXN-R7C			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B12 Blower B
Backup Fuse	20	N.A.	
2MXN-R7D			
Primary Bkr	50	110 @ 150A	Ice Cond Floor Cooling Pump 2B
Backup Fuse	50	N.A.	

## UNIT 2 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)			
2MXN-R8D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B13 Blower B
Backup Fuse	20	N.A.	
2MXN-R8E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B14 Blower B
Backup Fuse	20	N.A.	
2MXN-R8F			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2B15 Blower B
Backup Fuse	20	N.A.	
SMXG-R3G			
Primary Bkr	20	45 @ 60A	Standby Makeup Pump to Cont
Backup Fuse	20	N.A.	Sump Isol Valve 2NV1012C
2MXNA-1E			
Primary Bkr	30	45 @ 90A	Lower Cont Aux Charcoal
Backup Fuse	30	N.A.	Filter Fan 2B
2MXNA-2B			
Primary Bkr	25	45 @ 75A	Lighting Pnlbd 2LR7
Backup Fuse	25	N.A.	
2MXNA-2C			
Primary Bkr	25	45 @ 75A	Lighting Pnlbd 2LR8
Backup Fuse	25	N.A.	
2MXNA-2D			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A14 Blower B
Backup Fuse	20	N.A.	
2MXNA-2E			
Primary Bkr	20	45 @ 60A	Ice Cond AHU 2A15 Blower B
Backup Fuse	20	N.A.	



## UNIT 2 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)			
2MXNA-3A			
Primary Bkr	20	45 @ 60A	2 Ton CRDM Hdlg Jib Crane
Backup Fuse	20	N.A.	
2MXNA-3B			
Primary Bkr	30	45 @ 90A	Cont Air Compressor
Backup Fuse	30	N/A	
SMXG-R4F			
Primary Bkr	20	45 @ 60A	Standby Makeup Pump to NC
Backup Fuse	20	N.A.	Pump Seals Isol Valve 2NV1013C
2MXNA-3C			
Primary Bkr	20	45 @ 60A	NC Pump Motor Drain Tank
Backup Fuse	20	N.A.	Pump No. 1
2MXNA-3D			
Primary Bkr	20	45 @ 60A	Ice Cond Equip Access Door 2B
Backup Fuse	20	N.A.	
SMXD-3E			
Primary Bkr	15	45 @ 45A	Unit 2 Personnel Lock
Backup Fuse	15	N.A.	
SMXV-2F			
Primary Bkr	15	45 @ 45A	Unit 2 Emergency Personnel Lock
Backup Fuse	15	N.A.	
3. 600 VAC-Press Htr Pwr Pnl			
Backup Press Htr Pwr Pnl 2A-1A			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 1, 2, & 22
Backup Fuse	90	N.A.	

## UNIT 2 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 (Continued)			
Backup Press Htr Pwr Pnl 2A-1B			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 5, 6, & 27
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 2A-1C			
Primary Bkr	90	110 @ 270	Pressurizer Heaters 9, 10,
Backup Fuse	90	N.A.	& 32
Backup Press Htr Pwr Pnl 2A-2C			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 11, 12,
Backup Fuse	90	N.A.	& 35
Backup Press Htr Pwr Pnl 2A-2D			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 13, 14,
Backup Fuse	90	N.A.	& 37
Backup Press Htr Pwr Pnl 2A-2E			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 17, 18,
Backup Fuse	90	N.A.	& 42
Backup Press Htr Pwr Pnl 2B-1A			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 21, 47,
Backup Fuse	90	N.A.	@ 48
Backup Press Htr Pwr Pnl 2B-1B			
Primary Bkr	90	110 @ 270	Pressurizer Heaters 26, 53,
Backup Fuse	90	N.A.	& 54
Backup Press Htr Pwr Pnl 2B-1C			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 31, 59, & 60
Backup Fuse	90	N.A.	

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## UNIT 2 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 Pnl's (Continued)			
Backup Press Htr Pwr Pnl 2B-2C			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 36, 65, & 66
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 2B-2D			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 41, 71, & 72
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 2B-2E			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 46, 77, & 78
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 2C-1A			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 7, 8, & 30
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 2C-1B			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 19, 20, & 45
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 2C-1C			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 24, 51, & 52
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 2C-1D			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 29, 57, & 58
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 2C-2C			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 34, 63, & 64
Backup Fuse	90	N.A.	

## UNIT 2 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 (Continued)			
Backup Press Htr Pwr Pnl 2C-2D			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 39, 69, & 70
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 2C-2E			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 44, 75, & 76
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 2D-1A			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 3, 4, & 25
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 2D-1B			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 15, 16, & 40
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 2D-1C			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 23, 49, & 50
Backup Fuse	90	N.A.	
SMXG-R5A			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 28, 55, & 56
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 2D-2C			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 33, 61, & 62
Backup Fuse	90	N.A.	
Backup Press Htr Pwr Pnl 2D-2D			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 38, 67, & 68
Backup Fuse	90	N.A.	

## UNIT 2 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 Pnl's (Continued)			
Backup Press Htr Pwr Pnl 2D-2E			
Primary Bkr	90	110 @ 270A	Pressurizer Heaters 43, 73, & 74
Backup Fuse	90	N.A.	
4. 120 VAC-Panelboards			
2KM-19			
Primary Bkr	20	45 @ 90A	RCP 2A Space Htr
Backup Fuse	20	N.A.	
2KM-20			
Primary Bkr	20	45 @ 90A	RCP 2C Space Htr
Backup Fuse	20	N.A.	
2KN-19			
Primary Bkr	20	45 @ 90A	RCP 2B Space Htr
Backup Fuse	20	N.A.	
2KN-20			
Primary Bkr	20	45 @ 90A	RCP 2D Space Htr
Backup Fuse	20	N.A.	
2KN-27			
Primary Bkr	20	36 @ 60A	Fuel Handling Control Console
Backup Fuse	20	N.A.	
2KN-25			
Primary Bkr	30	36 @ 60A	Unit 2 Incore Inst
Backup Fuse	20	N.A.	Dehum #2

## UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	TRIP SETPOINT OR CONT. RATING (AMPERES)	RESPONSE TIME (SECONDS)	SYSTEM POWERED
5. 250 VDC-Lighting			
RB Deadlight Pnlbd 2DLD #1			
Primary Bkr	20	40 @ 60A	Ltg Pnl Nos. 2LR1 & 2LR2
Backup Fuse	20	N.A.	
RB Deadlight Pnlbd 2DLD #3			
Primary Bkr	20	40 @ 60A	Ltg Pnl Nos. 2LR4, 2LR5, &
Backup Fuse	20	N.A.	2LR6
RB Deadlight Pnlbd 2DLD #4			
Primary Bkr	20	40 @ 60A	Ltg Pnl Nos. 2LR7, 2LR8, & 2LR9
Backup Fuse	20	N.A.	
RB Deadlight Pnlbd 2DLD #6			
Primary Bkr	20	40 @ 60A	Ltg Pnl Nos. 2LR12
Backup Fuse	20	N.A.	
RB Deadlight Pnlbd 2DLD #7			
Primary Bkr	20	40 @ 60A	Ltg Pnl No. 2LR16
Backup Fuse	20	N.A.	
RB Deadlight Pnlbd 2DLD #9			
Primary Bkr	20	40 @ 60A	Ltg Pnl Nos. 2LR18 & 2LR17
Backup Fuse	20	N.A.	
6. 600 VAC - LC			
Outage Power Fuse Box 2A			
Primary Fuse	150	N.A.	Upper Containment Safety
Backup Fuse	150	N.A.	Switch 2A
Primary Fuse	150	N.A.	Upper Containment Safety
Backup Fuse	150	N.A.	Switch 2B

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## UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	TRIP SETPOINT OR CONT. RATING (AMPERES)	RESPONSE TIME (SECONDS)	SYSTEM POWERED
6. 600 VAC -LC (continued)			
Primary Fuse	200	N.A.	Lower Containment Outage
Backup Fuse	200	N.A.	Power Distr. Pnl 2A
Primary Fuse	225	N.A.	Lower Containment Outage
Backup Fuse	225	N.A.	Power Distr. Pnl 2B

TABLE 16.11-1 (Page 1 of 3)

## RADIOACTIVE LIQUID WASTE SAMPLING AND ANALYSIS PROGRAM

LIQUID RELEASE TYPE	SAMPLING FREQUENCY	MINIMUM ANALYSIS FREQUENCY	TYPE OF ACTIVITY ANALYSIS	LOWER LIMIT OF DETECTION (LLD) (uCi/ML) <sup>(1)</sup>
1. Batch Waste Release Tanks <sup>(4)</sup>	P Each Batch	P Each Batch	Principal Gamma Emitters <sup>(6)</sup>	$5 \times 10^{-7}$
			I-131	$1 \times 10^{-7}$
(Waste Monitor Tanks and Recycle Monitor Tank)	P One Batch/M	M	Dissolved and Entrained Gases (Gamma emitters)	$1 \times 10^{-5}$
	P Each Batch	M Composite <sup>(2)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
	P Each Batch	Q Composite <sup>(2)</sup>	Sr-89, Sr-90	$5 \times 10^{-8}$
2. Continuous Releases <sup>(5)</sup>	Continuous <sup>(3)</sup>	W Composite <sup>(3)</sup>	Principal Gamma Emitters <sup>(6)</sup>	$5 \times 10^{-7}$
(Containment Ventilation Unit			I-131	$1 \times 10^{-6}$
Condensate Drain Tank Discharge and Conventional Waste Water Treatment System Outlet)	M Grab Sample	M	Dissolved and Entrained Gases (Gamma Emitters)	$1 \times 10^{-5}$
	Continuous <sup>(3)</sup>	M Composite <sup>(3)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
	Continuous <sup>(3)</sup>	Q Composite <sup>(3)</sup>	Sr-89, Sr-90	$5 \times 10^{-8}$



TABLE 16.11-1 (Page 1 of 3)

## RADIOACTIVE LIQUID WASTE SAMPLING AND ANALYSIS PROGRAM

LIQUID RELEASE TYPE	SAMPLING FREQUENCY	MINIMUM ANALYSIS FREQUENCY	TYPE OF ACTIVITY ANALYSIS	LOWER LIMIT OF DETECTION (LLD) ( $\mu\text{Ci/ML}$ ) <sup>(1)</sup>
1. Batch Waste Release Tanks <sup>(4)</sup>	P Each Batch	P Each Batch	Principal Gamma Emitters <sup>(6)</sup>	$5 \times 10^{-7}$
			I-131	$1 \times 10^{-7}$
(Waste Monitor Tanks and Recycle Monitor Tank)	P One Batch/M	M	Dissolved and Entrained Gases (Gamma emitters)	$1 \times 10^{-5}$
	P Each Batch	M Composite <sup>(2)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
	P Each Batch	Q Composite <sup>(2)</sup>	Sr-89, Sr-90	$5 \times 10^{-8}$
2. Continuous Releases <sup>(5)</sup>	Continuous <sup>(3)</sup>	W Composite <sup>(3)</sup>	Principal Gamma Emitters <sup>(6)</sup>	$5 \times 10^{-7}$
			I-131	$1 \times 10^{-6}$
(Containment Ventilation Unit Condensate Drain Tank Discharge and Conventional Waste Water Treatment System Outlet)	M Grab Sample	M	Dissolved and Entrained Gases (Gamma Emitters)	$1 \times 10^{-5}$
	Continuous <sup>(3)</sup>	M Composite <sup>(3)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
		Q	Sr-89, Sr-90	$5 \times 10^{-8}$
	Continuous <sup>(3)</sup>	Composite <sup>(3)</sup>		

TABLE 16.11-1 (Page 1 of 3)

## RADIOACTIVE LIQUID WASTE SAMPLING AND ANALYSIS PROGRAM

LIQUID RELEASE TYPE	SAMPLING FREQUENCY	MINIMUM ANALYSIS FREQUENCY	TYPE OF ACTIVITY ANALYSIS	LOWER LIMIT OF DETECTION (LLD) ( $\mu\text{Ci/ML}$ ) <sup>(1)</sup>
1. Batch Waste Release Tanks <sup>(4)</sup>	P Each Batch	P Each Batch	Principal Gamma Emitters <sup>(6)</sup>	$5 \times 10^{-7}$
			I-131	$1 \times 10^{-9}$
(Waste Monitor Tanks and Recycle Monitor Tank)	P One Batch/M	M	Dissolved and Entrained Gases (Gamma emitters)	$1 \times 10^{-5}$
	P Each Batch	M Composite <sup>(2)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
	P Each Batch	Q Composite <sup>(2)</sup>	Sr-89, Sr-90	$5 \times 10^{-8}$
2. Continuous Releases <sup>(5)</sup>	Continuous <sup>(3)</sup>	W Composite <sup>(3)</sup>	Principal Gamma Emitters <sup>(6)</sup>	$5 \times 10^{-7}$
(Containment Ventilation Unit Condensate Drain Tank Discharge and Conventional Waste Water Treatment System Outlet)			I-131	$1 \times 10^{-6}$
	M Grab Sample	M	Dissolved and Entrained Gases (Gamma Emitters)	$1 \times 10^{-5}$
	Continuous <sup>(3)</sup>	M Composite <sup>(3)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
	Continuous <sup>(3)</sup>	Q Composite <sup>(3)</sup>	Sr-89, Sr-90	$5 \times 10^{-8}$

TABLE 16.11-1 (Page 1 of 3)

## RADIOACTIVE LIQUID WASTE SAMPLING AND ANALYSIS PROGRAM

LIQUID RELEASE TYPE	SAMPLING FREQUENCY	MINIMUM ANALYSIS FREQUENCY	TYPE OF ACTIVITY ANALYSIS	LOWER LIMIT OF DETECTION (LLD) ( $\mu\text{Ci/ML}$ ) <sup>(1)</sup>
Batch Waste Release Tanks <sup>(4)</sup>	P Each Batch	P Each Batch	Principal Gamma Emitters <sup>(6)</sup>	$5 \times 10^{-7}$
			I-131	$1 \times 10^{-8}$
(Waste Monitor Tanks and Recycle Monitor Tank)	P One Batch/M	M	Dissolved and Entrained Gases (Gamma emitters)	$1 \times 10^{-5}$
	P Each Batch	M Composite <sup>(2)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
	P Each Batch	Q Composite <sup>(2)</sup>	Sr-89, Sr-90	$5 \times 10^{-8}$
Continuous Releases <sup>(5)</sup>	Continuous <sup>(3)</sup>	W Composite <sup>(3)</sup>	Principal Gamma Emitters <sup>(6)</sup>	$5 \times 10^{-7}$
			I-131	$1 \times 10^{-6}$
(Containment Ventilation Unit Condensate Drain Tank Discharge and Conventional Waste Water Treatment System Outlet)	M Grab Sample	M	Dissolved and Entrained Gases (Gamma Emitters)	$1 \times 10^{-5}$
	Continuous <sup>(3)</sup>	M Composite <sup>(3)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
		Q Composite <sup>(3)</sup>	Sr-89, Sr-90	$5 \times 10^{-8}$
	Continuous <sup>(3)</sup>			

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## RADIOACTIVE LIQUID WASTE SAMPLING AND ANALYSIS PROGRAM

LIQUID RELEASE TYPE	SAMPLING FREQUENCY	MINIMUM ANALYSIS FREQUENCY	TYPE OF ACTIVITY ANALYSIS	LOWER LIMIT OF DETECTION (LLD) ( $\mu\text{Ci/ML}$ ) <sup>(1)</sup>
1. Batch Waste Release Tanks <sup>(4)</sup>	P Each Batch	P Each Batch	Principal Gamma Emitters <sup>(6)</sup>	$5 \times 10^{-7}$
			I-131	$1 \times 10^{-5}$
(Waste Monitor Tanks and Recycle Monitor Tank)	P One Batch/M	M	Dissolved and Entrained Gases (Gamma emitters)	$1 \times 10^{-5}$
	P Each Batch	M Composite <sup>(2)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
	P Each Batch	Q Composite <sup>(2)</sup>	Sr-89, Sr-90	$5 \times 10^{-8}$
2. Continuous Releases <sup>(5)</sup>	Continuous <sup>(3)</sup>	W Composite <sup>(3)</sup>	Principal Gamma Emitters <sup>(6)</sup>	$5 \times 10^{-7}$
			I-131	$1 \times 10^{-6}$
(Containment Ventilation Unit Condensate Drain Tank Discharge and Conventional Waste Water Treatment System Outlet)	M Grab Sample	M	Dissolved and Entrained Gases (Gamma Emitters)	$1 \times 10^{-5}$
	Continuous <sup>(3)</sup>	M Composite <sup>(3)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
	Continuous <sup>(3)</sup>	Q Composite <sup>(3)</sup>	Sr-89, Sr-90	$5 \times 10^{-8}$

TABLE 16.11-1 (Page 1 of 3)

## RADIOACTIVE LIQUID WASTE SAMPLING AND ANALYSIS PROGRAM

LIQUID RELEASE TYPE	SAMPLING FREQUENCY	MINIMUM ANALYSIS FREQUENCY	TYPE OF ACTIVITY ANALYSIS	LOWER LIMIT OF DETECTION (LLD) ( $\mu\text{Ci/ML}$ ) <sup>(1)</sup>
1. Batch Waste Release Tanks <sup>(4)</sup>	P Each Batch	P Each Batch	Principal Gamma Emitters <sup>(6)</sup>	$5 \times 10^{-7}$
			I-131	$1 \times 10^{-9}$
(Waste Monitor Tanks and Recycle Monitor Tank)	P One Batch/M	M	Dissolved and Entrained Gases (Gamma emitters)	$1 \times 10^{-5}$
	P Each Batch	M Composite <sup>(2)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
	P Each Batch	Q Composite <sup>(2)</sup>	Sr-89, Sr-90	$5 \times 10^{-8}$
2. Continuous Releases <sup>(5)</sup>	Continuous <sup>(3)</sup>	W Composite <sup>(3)</sup>	Principal Gamma Emitters <sup>(6)</sup>	$5 \times 10^{-7}$
			I-131	$1 \times 10^{-6}$
(Containment Ventilation Unit Condensate Drain Tank Discharge and Conventional Waste Water Treatment System Outlet)	M Grab Sample	M	Dissolved and Entrained Gases (Gamma Emitters)	$1 \times 10^{-5}$
	Continuous <sup>(3)</sup>	M Composite <sup>(3)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
		Q Composite <sup>(3)</sup>	Sr-89, Sr-90	$5 \times 10^{-8}$
	Continuous <sup>(3)</sup>			

TABLE 16.11-1 (Page 1 of 3)

## RADIOACTIVE LIQUID WASTE SAMPLING AND ANALYSIS PROGRAM

LIQUID RELEASE TYPE	SAMPLING FREQUENCY	MINIMUM ANALYSIS FREQUENCY	TYPE OF ACTIVITY ANALYSIS	LOWER LIMIT OF DETECTION (LLD) ( $\mu\text{Ci/ML}$ ) <sup>(1)</sup>
1. Batch Waste Release Tanks <sup>(4)</sup>	P Each Batch	P Each Batch	Principal Gamma Emitters <sup>(6)</sup>	$5 \times 10^{-7}$
(Waste Monitor Tanks and Recycle Monitor Tank)	P One Batch/M	M	I-131	$1 \times 10^{-7}$
			Dissolved and Entrained Gases (Gamma emitters)	$1 \times 10^{-5}$
	P Each Batch	M Composite <sup>(2)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
	P Each Batch	Q Composite <sup>(2)</sup>	Sr-89, Sr-90	$5 \times 10^{-8}$
2. Continuous Releases <sup>(5)</sup>	Continuous <sup>(3)</sup>	W Composite <sup>(3)</sup>	Principal Gamma Emitters <sup>(6)</sup>	$5 \times 10^{-7}$
(Containment Ventilation Unit	M Grab Sample	M	I-131	$1 \times 10^{-6}$
Condensate Drain Tank Discharge and Conventional Waste Water Treatment System Outlet)			Dissolved and Entrained Gases (Gamma Emitters)	$1 \times 10^{-5}$
	Continuous <sup>(3)</sup>	M Composite <sup>(3)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
	Continuous <sup>(3)</sup>	Q Composite <sup>(3)</sup>	Sr-89, Sr-90	$5 \times 10^{-8}$