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SELECTED LICENSEE COMMITMENTS MANUAL

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Appendix

Compliance Function Area Manual, Section 3.8
"Selected Licensee Commitments"

CATAWBA NUCLEAR STATION
FINAL SAFETY ANALYSIS REPORT
SELECTED LICENSEE COMMITMENTS
CHAPTER 16.8

ELECTRICAL POWER SYSTEMS

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16.8-1	Containment Penetration Conductor Overcurrent Protective Devices
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16.8 ELECTRICAL POWER SYSTEMS

16.8-1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT

PROTECTIVE DEVICES

COMMITMENT:

The containment penetration conductor overcurrent protective devices shown in Table 16.8-1 shall be maintained in compliance with the requirements of Catawba Technical Specification 3/4.8.4,

ELECTRICAL EQUIPMENT PROTECTIVE DEVICES.

APPLICABILITY: MODES 1, 2, 3, and 4

REFERENCES:

- 1) Catawba Tech Spec 3/4.8.4, Amendment 114/108

BASES:

The tables listed in this commitment were relocated from the Catawba Technical Specification with the approval of the U.S. Nuclear Regulatory Commission. Any additions, deletions, or revisions to the table are considered a change in a commitment and shall be performed pursuant to the Compliance Control of Selected Licensee Commitments Section Manual Procedure. Being a commitment, these tables can only be changed using the 10 CFR 50.59 evaluation process as described in the previously mentioned procedure.

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
1. 6900 VAC Swgr	
Primary Bkr RCP1A Backup Bkr 1TA-3	Reactor Coolant Pump 1A
Primary Bkr RCP1B Backup Bkr 1TB-3	Reactor Coolant Pump 1B
Primary BKR RCP1C Backup Bkr 1TC-3	Reactor Coolant Pump 1C
Primary BKR RCP1D Backup Bkr 1TD-3	Reactor Coolant Pump 1D
2. 600 VAC MCC	
1EMXC-F01B Primary Bkr Backup Fuse	Accumulator 1C Discharge Isol Vlv 1NI76A
1EMXC-F01C Primary Bkr Backup Fuse	Check Valve Test Header Cont Isol Vlv 1NI95A
1EMXC-F02A Primary Bkr Backup Fuse	Train A Alternate Power To ND LTDN Vlv 1ND1B
1EMXC-F02B Primary Bkr Backup Fuse	Hot Leg Inj. Check Vlv Test Isol Vlv 1NI153A
1EMXC-F02C Primary Bkr Backup Fuse	Cont Isol at 134 Deg Annulus Area Vlv 1VI312A
1EMXC-F03A Primary Bkr Backup Fuse	NC Pump 1C Thermal Barrier Outlet Isol Vlv 1KC345A
1EMXC-F03B Primary Bkr Backup Fuse	N2 to Prt Cont Isol Inside Vlv 1NC54A
1EMXC-F03C Primary Bkr Backup Fuse	Pressurizer Power-Operated Relief Isol Vlv 1NC33A

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1EMXC-F05A Primary Bkr Backup Fuse	NCDT Vent Inside Cont Isol Vlv 1WL450A
1EMXC-F05B Primary Bkr Backup Fuse	Cont Sump Pumps Discharge Inside Cont Isol Vlv 1WL825A
1EMXC-F05C Primary Bkr Backup Fuse	Vent Unit Cond Drn Tank Outside Cont Isol Vlv 1WL867A
1EMXC-F06A Primary Bkr Backup Fuse	NCDT Pumps Disch Inside Cont Isol Vlv 1WL805A
1EMXC-F07B Primary Bkr Backup Fuse	Cont H2 Purge Outlet Cont Isol Vlv 1VY17A
1EMXD-F01A Primary Bkr Backup Fuse	ND Pump 1A Suction From NC Loop B Vlv 1ND1B
1EMXD-F01B Primary Bkr Backup Fuse	Accumulator 1B Discharge Isol Vlv 1NI65B
1EMXD-F01C Primary Bkr Backup Fuse	NI Pump A to Hot Leg Check Vlv Test Isol Vlv 1NI122B
1EMXD-F02A Primary Bkr Backup Fuse	ND Pump 1B Suction from NC Loop C Vlv 1ND36B
1EMXD-F02B Primary Bkr Backup Fuse	ND to Hot Legs Chk 1NI125, 1NI129 Test Isol Vlv 1NI154B

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1EMXD-F02C Primary Bkr Backup Fuse	Pressurizer Power-Operated Relief Isol Vlv 1NC31B
1EMXD-F05A Primary Bkr Backup Fuse	Pressurizer Power-Operated Relief Isol Vlv 1NC35B
1EMXD-F05B Primary Bkr Backup Fuse	Rx Bldg Drain Hdr Inside Cont Isol Vlv 1KC429B
1EMXD-F05C Primary Bkr Backup Fuse	NCDT Hx Cing Water Return Inside Isol Vlv 1KC332B
1EMXD-F06A Primary Bkr Backup Fuse	NC Pump 1B Thermal Barrier Outlet Isol Vlv 1KC364B
1EMXD-F06B Primary Bkr Backup Fuse	NC Pumps Rtn Hdr Inside Cont Isol Vlv 1KC424B
1EMXK-F01A Primary Bkr Backup Fuse	UHI Check Vlv Test Line Inside Note 1 Cont Isol Vlv 1NI266A
1EMXK-F01B Primary Bkr Backup Fuse	Upper Cont Vent Units Return Cont Isol Vlv 1RN429A
1EMXK-F01C Primary Bkr Backup Fuse	Backup N2 to PORV 1NC34A From Accum Tnk 1A Vlv 1NI438A
1EMXK-F02A Primary Bkr Backup Fuse	NC Pump 1A Thermal Barrier Outlet Isol Vlv 1KC394A
1EMXK-F02B Primary Bkr Backup Fuse	Lower Cont Vent Units Return Cont Isol Vlv 1RN484A

Note 1: Upon removal of cable from power source associated with the deletion of UHI, this specification is no longer applicable.

TABLE 16.8-1A

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1EMXK-F02C Primary Bkr Backup Fuse	NV Supply to Pressurizer Vlv 1NV037A
1EMXK-F03A Primary Bkr Backup Fuse	S/G C Blowdown Line Sample Inside Cont Isol Vlv 1NM210A
1EMXK-F04A Primary Bkr Backup Fuse	S/G A Upper Shell Sample Inside Cont Isol Vlv 1NM187A
1EMXK-F04B Primary Bkr Backup Fuse	S/G A Blowdown Line Sample Inside Cont Isol Vlv 1NM190A
1EMXK-F04C Primary Bkr Backup Fuse	S/G C Upper Shell Sample Inside Cont Isol Vlv 1NM207A
1EMXK-F06A Primary Bkr Backup Fuse	Hydrogen Skimmer Fan 1A Inlet Vlv 1VX1A
1EMXK-F07C Primary Bkr Backup Fuse	Electric Hydrogen Recombiner Power Supply Panel 1A
1EMXK-F09A Primary Bkr Backup Fuse	Accumulator 1A Discharge Isol Vlv 1NI54A
1EMXK-F09B Primary Bkr Backup Fuse	UHI Ck Vlv Test Line Inside Note 1 Cont Isol Vlv 1NI267A
1EMXK-F09C Primary Bkr Backup Fuse	NC Pump Oil Fill Header Cont Isol Vlv 1NC196A

Note 1: Upon removal of cable from power source associated with the deletion of UHI, this specification is no longer applicable.

TABLE 16.8-1A

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION

SYSTEM POWERED

2. 600 VAC MCC (Continued)

1EMXK-F10A Primary Bkr Backup Fuse	Containment Air Return Damper 1ARF-D-2
1EMXK-F10B Primary Bkr Backup Fuse	VQ Fans Suction From Containment Isol Vlv 1VQ2A
1EMXK-F10C Primary Bkr Backup Fuse	Cont Air Addition Containment Isol Vlv 1VQ16A
1EMXK-F11A Primary Bkr Backup Fuse	Containment Air Return Fan Motor 1A
1EMXK-F11B Primary Bkr Backup Fuse	Hydrogen Skimmer Fan Motor 1A
1EMXL-F01B Primary Bkr Backup Fuse	Trn B Alternate Power to ND Letdn Vlv 1ND37A
1EMXL-F01C Primary Bkr Backup Fuse	NI Accum D Sample Line Inside Cont Isol Vlv 1NM81B
1EMXL-F02A Primary Bkr Backup Fuse	NC Pump 1D Thermal Barrier Outlet Isol Vlv 1KC413B
1EMXL-F02B Primary Bkr Backup Fuse	Air Handling units Glycol Return Cont Isol Vlv 1NF233B
1EMXL-F02C Primary Bkr Backup Fuse	NI Accum C Sample Line Inside Cont Isol Vlv 1NM78B
1EMXL-F03A Primary Bkr Backup Fuse	S/G D Blowdown Sample Line Inside Cont Isol Vlv 1NM220B

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1EMXL-F03B Primary Bkr Backup Fuse	NI Accum A Sample Line Inside Cont Isol Vlv 1NM72B
1EMXL-F03C Primary Bkr Backup Fuse	NI Accum B Sample Line Inside Cont Isol Vlv 1NM75B
1EMXL-F04A Primary Bkr Backup Fuse	S/G B Upper Shell Sample Inside Cont Isol Vlv 1NM197B
1EMXL-F04B Primary Bkr Backup Fuse	S/G B Blowdown Sample Line Inside Cont Isol Vlv 1NM200B
1EMXL-F04C Primary Bkr Backup Fuse	S/G D Upper Shell Sample Inside Cont Isol Vlv 1NM217B
1EMXL-F06A Primary Bkr Backup Fuse	Hydrogen Skimmer Fan 1B Inlet Vlv 1VX2D
1EMXL-F06B Primary Bkr Backup Fuse	Backup N2 to PORV 1NC32B from Accum Tnk 1B Vlv 1NI439B
1EMXL-F07C Primary Bkr Backup Fuse	Electric Hydrogen Recombiner Power Supply Panel 1B
1EMXL-F09A Primary Bkr Backup Fuse	Accumulator 1D Discharge Isol Vlv 1NI88B
1EMXL-F10A Primary Bkr Backup Fuse	Containment Air Return Damper 1ARF-D-4

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1EMXL-F10B Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 1NC251B
1EMXL-F10C Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 1NC252B
1EMXL-F11A Primary Bkr Backup Fuse	Containment Air Return Fan Motor 1B
1EMXL-F11B Primary Bkr Backup Fuse	Hydrogen Skimmer Fan Motor 1B
1EMXS-F01B Primary Bkr Backup Fuse	NC Pumps Seal Rtn Inside Cont Isol Vlv 1NV89A
1EMXS-F02A Primary Bkr Backup Fuse	ND Pump 1B Suction from NC Loop C Vlv 1ND37A
1EMXS-F02B Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 1NC250A
1EMXS-F03C Primary Bkr Backup Fuse	ND Pump 1A Suction from NC Loop B Vlv 1ND2A
1EMXS-F03D Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 1NC253A
1EMXS-F04B Primary Bkr Backup Fuse	S/G 1D Blowdown Inside Cont Isol Vlv 1BB8A
1EMXS-F04C Primary Bkr Backup Fuse	S/G 1B Blowdown Inside Cont Isol Vlv 1BB19A

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1EMXS-F05A Primary Bkr Backup Fuse	S/G 1A Blowdown Inside Cont Isol Vlv 1BB56A
1EMXS-F05B Primary Bkr Backup Fuse	S/G 1C Blowdown Inside Cont Isol Vlv 1BB60A
1EMXS-F05C Primary Bkr Backup Fuse	Pzr Liquid Sample Line Inside Cont Isol Vlv 1NM3A
1EMXS-F06A Primary Bkr Backup Fuse	Pzr Steam Sample Line Inside Cont Isol Vlv 1NM6A
1EMXS-F06B Primary Bkr Backup Fuse	NC Hot Leg A Sample Line Inside Cont Isol Vlv 1NM22A
1EMXS-F06C Primary Bkr Backup Fuse	NC Hot Leg C Sample Line Inside Cont Isol Vlv 1NM25A
1MXM-F01A Primary Bkr Backup Fuse	Reactor Coolant Pump Motor Drain Tank Pump Motor
1MXM-F02A Primary Bkr Backup Fuse	NC Pump 1B Oil Lift Pump Motor 1
1MXM-F02B Primary Bkr Backup Fuse	NC Pump 1C Oil Lift Pump Motor 1
1MXM-F03A Primary Bkr Backup Fuse	Ice Condenser Power Transformer ICT1A
1MXM-F03B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B6 Fan Motor A & B

TABLE 16.8-1A

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1MXM-F03C Primary Bkr Backup Fuse	Ice Condenser Equipment Access Door Hoist Motor 1A
1MXM-F04D Primary Bkr Backup Fuse	Lighting Transformer 1LR10
1MXM-F04E Primary Bkr Backup Fuse	Lighting Transformer 1LR13
1MXM-F05A Primary Bkr Backup Fuse	175 Ton Polar Crane and 25 Ton Aux Crane No. R013 and R015
1MXM-F05C Primary Bkr Backup Fuse	Upper Containment Welding Feeder
1MXM-F06A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A7 Fan Motor A & B
1MXM-F06B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B8 Fan Motor A & B
1MXM-F06C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A9 Fan Motor A & B
1MXM-F06D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B10 Fan Motor A & B
1MXM-F07B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A13 Fan Motor A & B
1MXM-F07C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B14 Fan Motor A & B

TABLE 16.8-1A

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

2. 600 VAC MCC (Continued)

1MXM-F08D Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Defrost Heater 1A
1MXM-F09A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A1 Fan Motor A & B
1MXM-F09B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B2 Fan Motor A & B
1MXM-F09C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A3 Fan Motor A & B
1MXM-F09D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B4 Fan Motor A & B
1MXM-F10A Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 1A1
1MXM-F10B Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 1B1
1MXN-F01F Primary Bkr Backup Fuse	Stud Tensioner Hoist 1B
1MXN-F02A Primary Bkr Backup Fuse	NC Pump 1B Oil Lift Pump Motor 2
1MXN-F02B Primary Bkr Backup Fuse	NC Pump 1C Oil Lift Pump Motor 2
1MXN-F02E Primary Bkr Backup Fuse	Stud Tensioner Hoist 1C

TABLE 16.8-1A

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1MXN-F03A Primary Bkr Backup Fuse	Ice Condenser Power Transformer ICT1B
1MXN-F03B Primary Bkr Backup Fuse	Ice Condenser Bridge Crane 1 Crane No. R011
1MXN-F03E Primary Bkr Backup Fuse	Stud Tensioner Hoist 1A
1MXN-F04D Primary Bkr Backup Fuse	Lighting Transformer 1LR5
1MXN-F04E Primary Bkr Backup Fuse	Lighting Transformer 1LR6
1MXN-F05A Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Defrost Heater 1B
1MXN-F05B Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Pump Motor 1B
1MXN-F05C Primary Bkr Backup Fuse	Ice Condenser Equipment Access Door Hoist Motor 1B
1MXN-F06A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B1 Fan Motor A & B
1MXN-F06B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A2 Fan Motor A & B
1MXN-F06C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B3 Fan Motor A & B

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1MXN-F06D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A4 Fan Motor A & B
1MXN-F07B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B5 Fan Motor A & B
1MXN-F07C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A6 Fan Motor A & B
1MXN-F08A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B7 Fan Motor A & B
1MXN-F08B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A8 Fan Motor A & B
1MXN-F08C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B9 Fan Motor A & B
1MXN-F08D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A10 Fan Motor A & B
1MXN-F09A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B11 Fan Motor A & B
1MXN-F09B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A12 Fan Motor A & B
1MXN-F09C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B13 Fan Motor A & B
1MXN-F09D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A14 Fan Motor A & B

TABLE 16.8-1A

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1MXN-F10A Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 1A2
1MXN-F10B Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 1B2
1MXN-F10C Primary Bkr Backup Fuse	Incore Instrumentation Sump Pump Motor 1
1MXN-F10D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B15 Fan Motor A & B
1MXO-F01A Primary Bkr Backup Fuse	Upper Containment Air Return Fan Motor 1C
1MXO-F01B Primary Bkr Backup Fuse	Incore Instrument Tunnel Booster Fan Motor 1A
1MXO-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 1A
1MXO-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 1C Fan Motor
1MXO-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 1C Fan Motor
1MXO-F05C Primary Bkr Backup Fuse	Containment Pipe Tunnel Booster Fan Motor 1A
1MXP-F01A Primary Bkr Backup Fuse	Upper Containment Return Air Fan 1B

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1MXP-F01B Primary Bkr Backup Fuse	Incore Instrument Tunnel Booster Fan Motor 1B
1MXP-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 1B
1MXP-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 1B Fan Motor
1MXP-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 1B Fan Motor
1MXP-F05C Primary Bkr Backup Fuse	Containment Pipe Tunnel Booster Fan Motor 1B
1MXQ-F01A Primary Bkr Backup Fuse	Upper Containment Return Air Fan Motor 1A
1MXQ-F01B Primary Bkr Backup Fuse	Incore Instrument Room Ventilation Unit 1A Fan Motor
1MXQ-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 1C
1MXQ-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 1A Fan Motor
1MXQ-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 1A Fan Motor
1MXR-F01A Primary Bkr Backup Fuse	Upper Containment Return Air Fan Motor 1D

TABLE 16.8-1A

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

2. 600 VAC MCC (Continued)

1MXR-F01B Primary Bkr Backup Fuse	Incore Instrument Room Ventila tion Unit 1B Fan Motor
1MXR-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 1D
1MXR-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 1D Fan Motor
1MXR-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 1D Fan Motor
1MXY-F02A Primary Bkr Backup Fuse	NC Pump 1A Oil Lift Pump Motor 1
1MXY-F02B Primary Bkr Backup Fuse	NC Pump 1D Oil Lift Pump Motor 1
1MXY-F02C Primary Bkr Backup Fuse	Reactor Building Lower Containment Welding Machine Receptacle 1RCPL0185
1MXY-F02D Primary Bkr Backup Fuse	Upper Containment Reactor Building Welding Receptacle 1RCPL0193
1MXY-F03A Primary Bkr Backup Fuse	Reactor Coolant Drain Tank Pump Motor 1A
1MXY-F03D Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Pump Motor 1A
1MXY-F05A Primary Bkr Backup Fuse	Lighting Transformer 1LR8
1MXY-F05B Primary Bkr Backup Fuse	Lighting Transformer 1LR11

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1MXY-F05C Primary Bkr Backup Fuse	Lighting Transformer 1LR14
1MXY-F06A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A5 Fan Motor A & B
1MXY-F06B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A11 Fan Motor A & B
1MXY-F06C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B12 Fan Motor A & B
1MXY-F06D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A15 Fan Motor A & B
1MXY-F08A Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1A
1MXY-F08B Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1C
1MXY-F08C Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1E
1MXY-F08D Primary Bkr Backup Fuse	Lower Containment Auxiliary Charcoal Filter Unit Fan Motor 1A
1MXZ-F02A Primary Bkr Backup Fuse	NC Pump 1A Oil Lift Pump Motor 2
1MXZ-F02B Primary Bkr Backup Fuse	NC Pump 1D Oil Lift Pump Motor 2

TABLE 16.8-1A

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1MXZ-F03A Primary Bkr Backup Fuse	Reactor Coolant Drain Tank Pump Motor 1B
1MXZ-F04B Primary Bkr Backup Fuse	Lighting Transformer 1LR1
1MXZ-F04C Primary Bkr Backup Fuse	Lighting Transformer 1LR2
1MXZ-F04D Primary Bkr Backup Fuse	Lighting Transformer 1LR3
1MXZ-F05A Primary Bkr Backup Fuse	Reactor Coolant Pump Jib Hoist No. R019 TH R022
1MXZ-F05C Primary Bkr Backup Fuse	Lower Containment Auxiliary Charcoal Filter Unit Fan Motor 1B
1MXZ-F06A Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1B
1MXZ-F06B Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1D
1MXZ-F06C Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1F
1MXZ-F06D Primary Bkr Backup Fuse	Lower Containment Reactor Building Welding Receptacle 1RCPL0194
1MXZ-F07B Primary Bkr Backup Fuse	Lighting Transformer 1LR4
1MXZ-F07C Primary Bkr Backup Fuse	5 Ton Jib Crane in Containment Crane No. R005

TABLE 16.8-1A

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
1MXZ-F07D Primary Bkr Backup Fuse	Reactor Cavity Manipulator Crane No. R007 & R027
1MXZ-F08A Primary Bkr Backup Fuse	Steam Generator Drain Pump Motor 1
1MXZ-F08C Primary Bkr Backup Fuse	15 Ton Equipment Access Hatch Hoist Crane No. R009
1MXZ-F08D Primary Bkr Backup Fuse	Control Rod Drive 2 Ton Jib Hoist Crane No. R017
1MXZ-F08E Primary Bkr Backup Fuse	Reactor Side Fuel Handling Control Console
SMXG-F01C Primary Bkr Backup Fuse	Standby Makeup Pump Drain Isol Vlv 1NV876
SMXG-F05C Primary Bkr Backup Fuse	Pressurizer Heaters 28, 55 & 56
SMXG-F06A Primary Bkr Backup Fuse	Standby Makeup Pump to Seal Water Line Isol Vlv 1NV877
3. 600 VAC Pressurizer Heater Power Panels	
PHP1A-F01A Primary Bkr Backup Fuse	Pressurizer Heaters 1, 2, & 22
PHP1A-F01B Primary Bkr Backup Fuse	Pressurizer Heaters 5, 6, & 27

TABLE 16.8-1A

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

3. 600 VAC Pressurizer Heater Power Panels (Continued)

PHP1A-F01C Primary Bkr Backup Fuse	Pressurizer Heaters 9, 10 & 32
PHP1A-F02C Primary Bkr Backup Fuse	Pressurizer Heaters 11, 12 & 35
PHP1A-F02D Primary Bkr Backup Fuse	Pressurizer Heaters 13, 14 & 37
PHP1A-F02E Primary Bkr Backup Fuse	Pressurizer Heaters 17, 18 & 42
PHP1B-F01A Primary Bkr Backup Fuse	Pressurizer Heaters 21, 47 & 48
PHP1B-F01B Primary Bkr Backup Fuse	Pressurizer Heaters 26, 53 & 54
PHP1B-F01C Primary Bkr Backup Fuse	Pressurizer Heaters 31, 59 & 60
PHP1B-F02C Primary Bkr Backup Fuse	Pressurizer Heaters 36, 65 & 66
PHP1B-F02D Primary Bkr Backup Fuse	Pressurizer Heaters 41, 71 & 72
PHP1B-F02E Primary Bkr Backup Fuse	Pressurizer Heaters 46, 77 & 78
PHP1C-F01A Primary Bkr Backup Fuse	Pressurizer Heaters 7, 8 & 30

TABLE 16.8-1A

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

3. 600 VAC Pressurizer Heater Power Panels (Continued)

PHP1C-F01B	
Primary Bkr	Pressurizer Heaters
Backup Fuse	19, 20 & 45
PHP1C-F01C	
Primary Bkr	Pressurizer Heaters
Backup Fuse	24, 51 & 52
PHP1C-F01D	
Primary Bkr	Pressurizer Heaters
Backup Fuse	29, 57 & 58
PHP1C-F02C	
Primary Bkr	Pressurizer Heaters
Backup Fuse	34, 63 & 64
PHP1C-F02D	
Primary Bkr	Pressurizer Heaters
Backup Fuse	39, 69 & 70
PHP1C-F02E	
Primary Bkr	Pressurizer Heaters
Backup Fuse	44, 75 & 76
PHP1D-F01A	
Primary Bkr	Pressurizer Heaters
Backup Fuse	3, 4 & 25
PHP1D-F01B	
Primary Bkr	Pressurizer Heaters
Backup Fuse	15, 16 & 40
PHP1D-F01C	
Primary Bkr	Pressurizer Heaters
Backup Fuse	23, 49 & 50
PHP1D-F02C	
Primary Bkr	Pressurizer Heaters
Backup Fuse	33, 61 & 62
PHP1D-F02D	
Primary Bkr	Pressurizer Heaters
Backup Fuse	38, 67 & 68

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
3. 600 VAC Pressurizer Heater Power Panels (Continued)	
PHP1D-F02E Primary Bkr Backup Fuse	Pressurizer Heaters 43, 73 & 74
4. 250 VDC Reactor Building Deadlight Panelboard	
1DLD-2 Primary Bkr Backup Fuse	Lighting Panelboard No. 1LR1, 1LR2, 1LR3, 1LR4
1DLD-3 Primary Bkr Backup Fuse	Lighting Panelboard No. 1LR13, 1LR14
1DLD-4 Primary Bkr Backup Fuse	Lighting Panelboard No. 1LR5, 1LR6
1DLD-5 Primary Bkr Backup Fuse	Lighting Panelboard No. 1LR10, 1LR11
1DLD-10 Primary Bkr Backup Fuse	Lighting Panelboard No. 1LR8
5. 120 VAC Panelboards	
1ELB-5 Primary Bkr Backup Fuse	Emergency A.C. Lighting
1ELB-7 Primary Bkr Backup Fuse	Emergency A.C. Lighting
1ELB-13 Primary Bkr Backup Fuse	Emergency A.C. Lighting
1ELB-15 Primary Bkr Backup Fuse	Emergency A.C. Lighting

TABLE 16.8-1A

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
5. 120 VAC Panelboards (Continued)	
1ELB-17 Primary Bkr Backup Fuse	Emergency A.C. Lighting
1KPM-1 Primary Bkr Backup Fuse	NC Pump Motor 1A Space Heater
1KPM-2 Primary Bkr Backup Fuse	NC Pump Motor 1C Space Heater
1KPM-7-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 1A Fan Motor Space Heater
1KPM-8-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 1C Fan Motor Space Heater
1KPM-24-1 Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 1A Space Heater
1KPM-24-2 Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 1B Space Heater
1KPM-24-3 Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 1C Space Heater
1KPM-24-4 Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 1D Space Heater
1KPM-33-3, 4, 5, 6, 7 Primary Bkr Backup Fuse	Safety Injection System Temperature Transmitters
1KPN-1 Primary Bkr Backup Fuse	NC Pump Motor 1B Space Heater

TABLE 16.8-1A

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

5. 120 VAC Panelboards (Continued)

1KPN-2

Primary Bkr
Backup Fuse

NC Pump Motor 1D Space Heater

1KPN-7-1

Primary Bkr
Backup FuseLower Containment Vent Unit
1B Fan Motor Space Heater

1KPN-8-1

Primary Bkr
Backup FuseLower Containment Vent Unit
1D Fan Motor Space Heater

1KPN-8-2,3,4,5

NC Pump Seal Stand Pipe
Vent and Drain Valves

1KPN-11

Primary Bkr
Backup FuseMisc Control Power
for 1ATC 24

6. DC Welding Circuits

1EQCB0001

Primary Bkr-AA
Backup Bkr-ABLower Containment DC
Welding Circuit

1EQCB0002

Primary Bkr-AA
Backup Bkr-ABUpper Containment DC
Welding Circuit

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

1. 6900 VAC Swgr

Primary Bkr RCP2A
Backup Bkr 2TA-3

Reactor Coolant Pump 2A

Primary Bkr RCP2B
Backup Bkr 2TB-3

Reactor Coolant Pump 2B

Primary BKR RCP2C
Backup Bkr 2TC-3

Reactor Coolant Pump 2C

Primary BKR RCP2D
Backup Bkr 2TD-3

Reactor Coolant Pump 2D

2. 600 VAC MCC

2EMXC-F01B
Primary Bkr
Backup FuseAccumulator 2C Discharge
Isol Vlv 2NI76A2EMXC-F01C
Primary Bkr
Backup FuseCheck Valve Test Header
Cont Isol Vlv 2NI95A2EMXC-F02A
Primary Bkr
Backup FuseTrain A Alternate Power
To ND LTDN Vlv 2ND1B2EMXC-F02B
Primary Bkr
Backup FuseHot Leg Inj. Check Vlv
Test Isol Vlv 2NI153A2EMXC-F02C
Primary Bkr
Backup FuseCont Isol at 134 Deg
Annulus Area Vlv 2VI312A2EMXC-F03A
Primary Bkr
Backup FuseNC Pump 2C Thermal Barrier Outlet
Isol Vlv 2KC345A2EMXC-F03B
Primary Bkr
Backup FuseN2 to Prt Cont Isol Inside
Vlv 2NC54A2EMXC-F03C
Primary Bkr
Backup FusePressurizer Power-Operated
Relief Isol Vlv 2NC33A

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

2. 600 VAC MCC (Continued)

2EMXC-F05A

Primary Bkr

Backup Fuse

NCDT Vent Inside Cont Isol

Vlv 2WL450A

2EMXC-F05B

Primary Bkr

Backup Fuse

Cont Sump Pumps Discharge Inside

Cont Isol Vlv 2WL825A

2EMXC-F05C

Primary Bkr

Backup Fuse

Vent Unit Cond Drn Tank

Outside Cont Isol Vlv 2WL867A

2EMXC-F06A

Primary Bkr

Backup Fuse

NCDT Pumps Disch Inside Cont Isol

Vlv 2WL805A

2EMXC-F07B

Primary Bkr

Backup Fuse

Cont H2 Purge Outlet Cont Isol

Vlv 2VY17A

2EMXD-F01A

Primary Bkr

Backup Fuse

ND Pump 2A Suction From NC

Loop B Vlv 2ND1B

2EMXD-F01B

Primary Bkr

Backup Fuse

Accumulator 2B Discharge

Isol Vlv 2NI65B

2EMXD-F01C

Primary Bkr

Backup Fuse

NI Pump A to Hot Leg Check

Vlv Test Isol Vlv 2NI122B

2EMXD-F02A

Primary Bkr

Backup Fuse

ND Pump 2B Suction from NC

Loop C Vlv 2ND36B

2EMXD-F02B

Primary Bkr

Backup Fuse

ND to Hot Legs Chk 2NI125, 2NI129

Test Isol Vlv 2NI154B

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION

SYSTEM POWERED

2. 600 VAC MCC (Continued)

2EMXD-F02C

Primary Bkr

Backup Fuse

Pressurizer Power-Operated Relief

Isol Vlv 2NC31B

2EMXD-F05A

Primary Bkr

Backup Fuse

Pressurizer Power-Operated Relief

Isol Vlv 2NC35B

2EMXD-F05B

Primary Bkr

Backup Fuse

Rx Bldg Drain Hdr Inside Cont

Isol Vlv 2KC429B

2EMXD-F05C

Primary Bkr

Backup Fuse

NCDT Hx Cing Water Return Inside

Isol Vlv 2KC332B

2EMXD-F06A

Primary Bkr

Backup Fuse

NC Pump 2B Thermal Barrier Outlet

Isol Vlv 2KC364B

2EMXD-F06B

Primary Bkr

Backup Fuse

NC Pumps Rtn Hdr Inside Cont

Isol Vlv 2KC424B

2EMXK-F01A

Primary Bkr

Backup Fuse

UHI Check Vlv Test Line Inside Note 1

Cont Isol Vlv 2NI266A

2EMXK-F01B

Primary Bkr

Backup Fuse

Upper Cont Vent Units Return

Cont Isol Vlv 2RN429A

2EMXK-F01C

Primary Bkr

Backup Fuse

Backup N2 to PORV 2NC34A From

Accum Tnk 2A Vlv 2NI438A

2EMXK-F02A

Primary Bkr

Backup Fuse

NC Pump 2A Thermal Barrier

Outlet Isol Vlv 2KC394A

2EMXK-F02B

Primary Bkr

Backup Fuse

Lower Cont Vent Units Return

Cont Isol Vlv 2RN484A

Note 1: Upon removal of cable from power source associated with the deletion of UHI, this specification is no longer applicable.

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION

SYSTEM POWERED

2. 600 VAC MCC (Continued)

2EMXK-F02C Primary Bkr Backup Fuse	NV Supply to Pressurizer Vlv 2NV037A
2EMXK-F03A Primary Bkr Backup Fuse	S/G C Blowdown Line Sample Inside Cont Isol Vlv 2NM210A
2EMXK-F04A Primary Bkr Backup Fuse	S/G A Upper Shell Sample Inside Cont Isol Vlv 2NM187A
2EMXK-F04B Primary Bkr Backup Fuse	S/G A Blowdown Line Sample Inside Cont Isol Vlv 2NM190A
2EMXK-F04C Primary Bkr Backup Fuse	S/G C Upper Shell Sample Inside Cont Isol Vlv 2NM207A
2EMXK-F06A Primary Bkr Backup Fuse	Hydrogen Skimmer Fan 2A Inlet Vlv 2VX1A
2EMXK-F07C Primary Bkr Backup Fuse	Electric Hydrogen Recombiner Power Supply Panel 2A
2EMXK-F09A Primary Bkr Backup Fuse	Accumulator 2A Discharge Isol Vlv 2NI54A
2EMXK-F09B Primary Bkr Backup Fuse	UHI Check Vlv Test Line Inside Note 1 Cont Isol Vlv 2NI267A
2EMXK-F09C Primary Bkr Backup Fuse	NC Pump Oil Fill Header Cont Isol Vlv 2NC196A

Note 1: Upon removal of cable from power source associated with the deletion of UHI, this specification is no longer applicable.

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

2. 600 VAC MCC (Continued)

2EMXK-F10A Primary Bkr Backup Fuse	Containment Air Return Damper 2ARF-D-2.
2EMXK-F10B Primary Bkr Backup Fuse	VQ Fans Suction From Containment Isol Vlv 2VQ2A
2EMXK-F10C Primary Bkr Backup Fuse	Cont Air Addition Containment Isol Vlv 2VQ16A
2EMXK-F11A Primary Bkr Backup Fuse	Containment Air Return Fan Motor 2A
2EMXK-F11B Primary Bkr Backup Fuse	Hydrogen Skimmer Fan Motor 2A
2EMXL-F01B Primary Bkr Backup Fuse	Trn B Alternate Power to ND Letdn Vlv 2ND37A
2EMXL-F01C Primary Bkr Backup Fuse	NI Accum D Sample Line Inside Cont Isol Vlv 2NM81B
2EMXL-F02A Primary Bkr Backup Fuse	NC Pump 2D Thermal Barrier Outlet Isol Vlv 2KC413B
2EMXL-F02B Primary Bkr Backup Fuse	Air Handling units Glycol Return Cont Isol Vlv 2NF233B
2EMXL-F02C Primary Bkr Backup Fuse	NI Accum C Sample Line Inside Cont Isol Vlv 2NM78B
2EMXL-F03A Primary Bkr Backup Fuse	S/G D Blowdown Sample Line Inside Cont Isol Vlv 2NM220B

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

2. 600 VAC MCC (Continued)

2EMXL-F03B Primary Bkr Backup Fuse	NI Accum A Sample Line Inside Cont Isol Vlv 2NM72B
2EMXL-F03C Primary Bkr Backup Fuse	NI Accum B Sample Line Inside Cont Isol Vlv 2NM75B
2EMXL-F04A Primary Bkr Backup Fuse	S/G B Upper Shell Sample Inside Cont Isol Vlv 2NM197B
2EMXL-F04B Primary Bkr Backup Fuse	S/G B Blowdown Sample Line Inside Cont Isol Vlv 2NM200B
2EMXL-F04C Primary Bkr Backup Fuse	S/G D Upper Shell Sample Inside Cont Isol Vlv 2NM217B
2EMXL-F06A Primary Bkr Backup Fuse	Hydrogen Skimmer Fan 2B Inlet Vlv 2VX2B
2EMXL-F06B Primary Bkr Backup Fuse	Backup N2 to PORV 2NC32B from Accum Tnk 2B Vlv 2NI439B
2EMXL-F07C Primary Bkr Backup Fuse	Electric Hydrogen Recombiner Power Supply Panel 2B
2EMXL-F09A Primary Bkr Backup Fuse	Accumulator 2D Discharge Isol Vlv 2NI88B
2EMXL-F10A Primary Bkr Backup Fuse	Containment Air Return Damper 2ARF-D-4

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

2. 600 VAC MCC (Continued)

2EMXL-F10B Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 2NC251B
2EMXL-F10C Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 2NC252B
2EMXL-F11A Primary Bkr Backup Fuse	Containment Air Return Fan Motor 2B
2EMXL-F11B Primary Bkr Backup Fuse	Hydrogen Skimmer Fan Motor 2B
2EMXS-F01B Primary Bkr Backup Fuse	NC Pumps Seal Rtn Inside Cont Isol Vlv 2NV89A
2EMXS-F02A Primary Bkr Backup Fuse	ND Pump 2B Suction from NC Loop C Vlv 2ND37A
2EMXS-F02B Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 2NC250A
2EMXS-F03C Primary Bkr Backup Fuse	ND Pump 2A Suction from NC Loop B Vlv 2ND2A
2EMXS-F03D Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 2NC253A
2EMXS-F04B Primary Bkr Backup Fuse	S/G 2D Blowdown Inside Cont Isol Vlv 2BB8A
2EMXS-F04C Primary Bkr Backup Fuse	S/G 2B Blowdown Inside Cont Isol Vlv 2BB19A

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

2. 600 VAC MCC (Continued)

2EMXS-F05A Primary Bkr Backup Fuse	S/G 2A Blowdown Inside Cont Isol Vlv 2BB56A
2EMXS-F05B Primary Bkr Backup Fuse	S/G 2C Blowdown Inside Cont Isol Vlv 2BB60A
2EMXS-F05C Primary Bkr Backup Fuse	Pzr Liquid Sample Line Inside Cont Isol Vlv 2NM3A
2EMXS-F06A Primary Bkr Backup Fuse	Pzr Steam Sample Line Inside Cont Isol Vlv 2NM6A
2EMXS-F06B Primary Bkr Backup Fuse	NC Hot Leg A Sample Line Inside Cont Isol Vlv 2NM22A
2EMXS-F06C Primary Bkr Backup Fuse	NC Hot Leg C Sample Line Inside Cont Isol Vlv 2NM25A
2MXM-F01A Primary Bkr Backup Fuse	Reactor Coolant Pump Motor Drain Tank Pump Motor
2MXM-F02A Primary Bkr Backup Fuse	NC Pump 2B Oil Lift Pump Motor 1
2MXM-F02B Primary Bkr Backup Fuse	NC Pump 2C Oil Lift Pump Motor 1
2MXM-F03A Primary Bkr Backup Fuse	Ice Condenser Power Transformer ICT2A
2MXM-F03B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B6 Fan Motor A & B

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

2. 600 VAC MCC (Continued)

2MXM-F03C

Primary Bkr
Backup FuseIce Condenser Equipment Access
Door Hoist Motor 2A

2MXM-F04D

Primary Bkr
Backup Fuse

Lighting Transformer 2LR10

2MXM-F04E

Primary Bkr
Backup Fuse

Lighting Transformer 2LR13

2MXM-F05A

Primary Bkr
Backup Fuse175 Ton Polar Crane and 25
Ton Aux Crane No. R014 and R016

2MXM-F05C

Primary Bkr
Backup Fuse

Upper Containment Welding Feeder

2MXM-F06A

Primary Bkr
Backup FuseIce Condenser Air Handling
Unit 2A7 Fan Motor A & B

2MXM-F06B

Primary Bkr
Backup FuseIce Condenser Air Handling
Unit 2B8 Fan Motor A & B

2MXM-F06C

Primary Bkr
Backup FuseIce Condenser Air Handling
Unit 2A9 Fan Motor A & B

2MXM-F06D

Primary Bkr
Backup FuseIce Condenser Air Handling
Unit 2B10 Fan Motor A & B

2MXM-F07B

Primary Bkr
Backup FuseIce Condenser Air Handling
Unit 2A13 Fan Motor A & B

2MXM-F07C

Primary Bkr
Backup FuseIce Condenser Air Handling
Unit 2B14 Fan Motor A & B

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

2. 600 VAC MCC (Continued)

2MXM-F08D Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Defrost Heater 2A
2MXM-F09A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A1 Fan Motor A & B
2MXM-F09B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B2 Fan Motor A & B
2MXM-F09C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A3 Fan Motor A & B
2MXM-F09D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B4 Fan Motor A & B
2MXM-F10A Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 2A1
2MXM-F10B Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 2B1
2MXN-F01F Primary Bkr Backup Fuse	Stud Tensioner Hoist 2B
2MXN-F02A Primary Bkr Backup Fuse	NC Pump 2B Oil Lift Pump Motor 2
2MXN-F02B Primary Bkr Backup Fuse	NC Pump 2C Oil Lift Pump Motor 2
2MXN-F02E Primary Bkr Backup Fuse	Stud Tensioner Hoist 2C

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

2. 600 VAC MCC (Continued)

2MXN-F03A Primary Bkr Backup Fuse	Ice Condenser Power Transformer ICT2B
2MXN-F03B Primary Bkr Backup Fuse	Ice Condenser Bridge Crane 2 Crane No. R012
2MXN-F03E Primary Bkr Backup Fuse	Stud Tensioner Hoist 2A
2MXN-F04D Primary Bkr Backup Fuse	Lighting Transformer 2LR5
2MXN-F04E Primary Bkr Backup Fuse	Lighting Transformer 2LR6
2MXN-F05A Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Defrost Heater 2B
2MXN-F05B Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Pump Motor 2B
2MXN-F05C Primary Bkr Backup Fuse	Ice Condenser Equipment Access Door Hoist Motor 2B
2MXN-F06A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B1 Fan Motor A & B
2MXN-F06B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A2 Fan Motor A & B
2MXN-F06C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B3 Fan Motor A & B

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

2. 600 VAC MCC (Continued)

2MXN-F06D
Primary Bkr
Backup Fuse

Ice Condenser Air Handling
Unit 2A4 Fan Motor A & B

2MXN-F07B
Primary Bkr
Backup Fuse

Ice Condenser Air Handling
Unit 2B5 Fan Motor A & B

2MXN-F07C
Primary Bkr
Backup Fuse

Ice Condenser Air Handling
Unit 2A6 Fan Motor A & B

2MXN-F08A
Primary Bkr
Backup Fuse

Ice Condenser Air Handling
Unit 2B7 Fan Motor A & B

2MXN-F08B
Primary Bkr
Backup Fuse

Ice Condenser Air Handling
Unit 2A8 Fan Motor A & B

2MXN-F08C
Primary Bkr
Backup Fuse

Ice Condenser Air Handling
Unit 2B9 Fan Motor A & B

2MXN-F08D
Primary Bkr
Backup Fuse

Ice Condenser Air Handling
Unit 2A10 Fan Motor A & B

2MXN-F09A
Primary Bkr
Backup Fuse

Ice Condenser Air Handling
Unit 2B11 Fan Motor A & B

2MXN-F09B
Primary Bkr
Backup Fuse

Ice Condenser Air Handling
Unit 2A12 Fan Motor A & B

2MXN-F09C
Primary Bkr
Backup Fuse

Ice Condenser Air Handling
Unit 2B13 Fan Motor A & B

2MXN-F09D
Primary Bkr
Backup Fuse

Ice Condenser Air Handling
Unit 2A14 Fan Motor A & B

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

2. 600 VAC MCC (Continued)

2MXN-F10A Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 2A2
2MXN-F10B Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 2B2
2MXN-F10C Primary Bkr Backup Fuse	Incore Instrumentation Sump Pump Motor 2
2MXN-F10D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B15 Fan Motor A & B
2MXO-F01A Primary Bkr Backup Fuse	Upper Containment Air Return Fan Motor 2C
2MXO-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2A
2MXO-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 2C Fan Motor
2MXO-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 2C Fan Motor
2MXO-F05C Primary Bkr Backup Fuse	Containment Pipe Tunnel Booster Fan Motor 2A
2MXP-F01A Primary Bkr Backup Fuse	Upper Containment Return Air Fan 2B

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

2. 600 VAC MCC (Continued)

2MXP-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2B
2MXP-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 2B Fan Motor
2MXP-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 2B Fan Motor
2MXP-F05C Primary Bkr Backup Fuse	Containment Pipe Tunnel Booster Fan Motor 2B
2MXQ-F01A Primary Bkr Backup Fuse	Upper Containment Return Air Fan Motor 2A
2MXQ-F01B Primary Bkr Backup Fuse	Incore Inst Room Ventilation Unit 2A Fan Motor
2MXQ-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2C
2MXQ-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 2A Fan Motor
2MXQ-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 2A Fan Motor
2MXR-F01A Primary Bkr Backup Fuse	Upper Containment Return Air Fan Motor 2D

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICESDEVICE NUMBER & LOCATIONSYSTEM POWERED

2. 600 VAC MCC (Continued)

2MXR-F01B Primary Bkr Backup Fuse	Incore Instrument Room Ventilation Unit 2B Fan Motor
2MXR-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2D
2MXR-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 2D Fan Motor
2MXR-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 2D Fan Motor
2MXY-F02A Primary Bkr Backup Fuse	NC Pump 2A Oil Lift Pump Motor 1
2MXY-F02B Primary Bkr Backup Fuse	NC Pump 2D Oil Lift Pump Motor 1
2MXY-F02C Primary Bkr Backup Fuse	Reactor Building Lower Containment Welding Machine Receptacle 2RCPL0185
2MXY-F02D Primary Bkr Backup Fuse	Upper Containment Reactor Building Welding Receptacle 2RCPL0193
2MXY-F03A Primary Bkr Backup Fuse	Reactor Coolant Drain Tank Pump Motor 2A
2MXY-F03D Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Pump Motor 2A
2MXY-F05A Primary Bkr Backup Fuse	Lighting Transformer 2LR8
2MXY-F05B Primary Bkr Backup Fuse	Lighting Transformer 2LR11

TABLE 16.8-1B
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
2. 600 VAC MCC (Continued)	
2MXY-F05C Primary Bkr Backup Fuse	Lighting Transformer 2LR14
2MXY-F06A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A5 Fan Motor A & B
2MXY-F06B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A11 Fan Motor A & B
2MXY-F06C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B12 Fan Motor A & B
2MXY-F06D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A15 Fan Motor A & B
2MXY-F07C Primary Bkr Backup Fuse	EXH Reactor Building Equipment Hatch Jib Cranes R035 & R036
2MXY-F08A Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2A
2MXY-F08B Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2C
2MXY-F08C Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2E
2MXY-F08D Primary Bkr Backup Fuse	Lower Containment Auxiliary Charcoal Filter Unit Fan Motor 2A
2MXZ-F02A Primary Bkr Backup Fuse	NC Pump 2A Oil Lift Pump Motor 2

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION

SYSTEM POWERED

2. 600 VAC MCC (Continued)

2MXZ-F02B Primary Bkr Backup Fuse	NC Pump 2D Oil Lift Pump Motor 2
2MXZ-F03A Primary Bkr Backup Fuse	Reactor Coolant Drain Tank Pump Motor 2B
2MXZ-F04B Primary Bkr Backup Fuse	Lighting Transformer 2LR1
2MXZ-F04C Primary Bkr Backup Fuse	Lighting Transformer 2LR2
2MXZ-F04D Primary Bkr Backup Fuse	Lighting Transformer 2LR3
2MXZ-F05A Primary Bkr Backup Fuse	Reactor Coolant Pump Jib Hoist No. R023 TH R026
2MXZ-F05C Primary Bkr Backup Fuse	Lower Containment Auxiliary Charcoal Filter Unit Fan Motor 2B
2MXZ-F06A Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2B
2MXZ-F06B Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2D
2MXZ-F06D Primary Bkr Backup Fuse	Lower Containment Reactor Building Welding Receptacle 2RCPL0194
2MXZ-F06C Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2F
2MXZ-F07B Primary Bkr Backup Fuse	Lighting Transformer 2LR4

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION

SYSTEM POWERED

2. 600 VAC MCC (Continued)

2MXZ-F07C

Primary Bkr
Backup Fuse5 Ton Jib Crane in Containment
Crane No. R006

2MXZ-F07D

Primary Bkr
Backup FuseReactor Cavity Manipulator
Crane No. R008 & R028

2MXZ-F08A

Primary Bkr
Backup FuseSteam Generator Drain Pump
Motor 2

2MXZ-F08C

Primary Bkr
Backup Fuse15 Ton Equipment Access Hatch
Hoist Crane No. R010

2MXZ-F08D

Primary Bkr
Backup FuseControl Rod Drive 2 Ton Jib
Hoist Crane No. R018

2MXZ-F08E

Primary Bkr
Backup FuseReactor Side Fuel Handling
Control Console

SMXG-F06B

Primary Bkr
Backup FuseStandby Makeup Pump Drain Isol
Vlv 2NV876

SMXG-R05B

Primary Bkr
Backup Fuse

Pressurizer Heaters 28, 55 & 56

SMXG-F06C

Primary Bkr
Backup FuseStandby Makeup Pump to Seal
Water Line Isol Vlv 2NV877

3. 600 VAC Pressurizer Heater Power Panels

PHP2A-F01A

Primary Bkr
Backup FusePressurizer Heaters
1, 2, & 22

PHP2A-F01B

Primary Bkr
Backup FusePressurizer Heaters
5, 6, & 27

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION

SYSTEM POWERED

3. 600 VAC Pressurizer Heater Power Panels (Continued)

PHP2A-F01C Primary Bkr Backup Fuse	Pressurizer Heaters 9, 10 & 32
PHP2A-F02C Primary Bkr Backup Fuse	Pressurizer Heaters 11, 12 & 35
PHP2A-F02D Primary Bkr Backup Fuse	Pressurizer Heaters 13, 14 & 37
PHP2A-F02E Primary Bkr Backup Fuse	Pressurizer Heaters 17, 18 & 42
PHP2B-F01A Primary Bkr Backup Fuse	Pressurizer Heaters 21, 47 & 48
PHP2B-F01B Primary Bkr Backup Fuse	Pressurizer Heaters 26, 53 & 54
PHP2B-F01C Primary Bkr Backup Fuse	Pressurizer Heaters 31, 59 & 60
PHP2B-F02C Primary Bkr Backup Fuse	Pressurizer Heaters 36, 65 & 66
PHP2B-F02D Primary Bkr Backup Fuse	Pressurizer Heaters 41, 71 & 72
PHP2B-F02E Primary Bkr Backup Fuse	Pressurizer Heaters 46, 77 & 78
PHP2C-F01A Primary Bkr Backup Fuse	Pressurizer Heaters 7, 8 & 30

TABLE 16.8-1B
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
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3. 600 VAC Pressurizer Heater Power Panels (Continued)

PHP2C-F01B Primary Bkr Backup Fuse	Pressurizer Heaters 19, 20 & 45
PHP2C-F01C Primary Bkr Backup Fuse	Pressurizer Heaters 24, 51 & 52
PHP2C-F01D Primary Bkr Backup Fuse	Pressurizer Heaters 29, 57 & 58
PHP2C-F02C Primary Bkr Backup Fuse	Pressurizer Heaters 34, 63 & 64
PHP2C-F02D Primary Bkr Backup Fuse	Pressurizer Heaters 39, 69 & 70
PHP2C-F02E Primary Bkr Backup Fuse	Pressurizer Heaters 44, 75 & 76
PHP2D-F01A Primary Bkr Backup Fuse	Pressurizer Heaters 3, 4 & 25
PHP2D-F01B Primary Bkr Backup Fuse	Pressurizer Heaters 15, 16 & 40
PHP2D-F01C Primary Bkr Backup Fuse	Pressurizer Heaters 23, 49 & 50
PHP2D-F02C Primary Bkr Backup Fuse	Pressurizer Heaters 33, 61 & 62
PHP2D-F02D Primary Bkr Backup Fuse	Pressurizer Heaters 38, 67 & 68

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
3. 600 VAC Pressurizer Heater Power Panels (Continued)	
PHP2D-F02E	
Primary Bkr	Pressurizer Heaters
Backup Fuse	43, 73 & 74
4. 250 VDC Reactor Building Deadlight Panelboard	
2DLD-2	
Primary Bkr	Lighting Panelboard No. 2LR1,
Backup Fuse	2LR2, 2LR3, 2LR4
2DLD-3	
Primary Bkr	Lighting Panelboard No. 2LR13,
Backup Fuse	2LR14
2DLD-4	
Primary Bkr	Lighting Panelboard No. 2LR5,
Backup Fuse	2LR6
2DLD-5	
Primary Bkr	Lighting Panelboard No. 2LR10,
Backup Fuse	2LR11
2DLD-10	
Primary Bkr	Lighting Panelboard No. 2LR8
Backup Fuse	
5. 120 VAC Panelboards	
2ELB-5	
Primary Bkr	Emergency A.C. Lighting
Backup Fuse	
2ELB-7	
Primary Bkr	Emergency A.C. Lighting
Backup Fuse	
2ELB-13	
Primary Bkr	Emergency A.C. Lighting
Backup Fuse	
2ELB-15	
Primary Bkr	Emergency A.C. Lighting
Backup Fuse	

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION

SYSTEM POWERED

5. 120 VAC Panelboards (Continued)

2ELB-17

Primary Bkr
Backup Fuse

Emergency A.C. Lighting

2KPM-1

Primary Bkr
Backup Fuse

NC Pump Motor 2A Space Heater

2KPM-2

Primary Bkr
Backup Fuse

NC Pump Motor 2C Space Heater

2KPM-7-1

Primary Bkr
Backup FuseLower Containment Vent Unit
2A Fan Motor Space Heater

2KPM-8-1

Primary Bkr
Backup FuseLower Containment Vent Unit
2C Fan Motor Space Heater

2KPM-24-1

Primary Bkr
Backup FuseControl Rod Drive Vent Fan
Motor 2A Space Heater

2KPM-24-2

Primary Bkr
Backup FuseControl Rod Drive Vent Fan
Motor 2B Space Heater

2KPM-24-3

Primary Bkr
Backup FuseControl Rod Drive Vent Fan
Motor 2C Space Heater

2KPM-24-4

Primary Bkr
Backup FuseControl Rod Drive Vent Fan
Motor 2D Space Heater

2KPM-33-3, 4, 5, 6, 7

Primary Bkr
Backup FuseSafety Injection System
Temperature Transmitters

2KPN-1

Primary Bkr
Backup Fuse

NC Pump Motor 2B Space Heater

TABLE 16.8-1B

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
5. 120 VAC Panelboards (Continued)	
2KPN-2 Primary Bkr Backup Fuse	NC Pump Motor 2D Space Heater
2KPN-7-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 2B Fan Motor Space Heater
2KPN-8-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 2D Fan Motor Space Heater
2KPN-8-2,3,4,5	NC Pump Seal Stand Pipe Vent and Drain Valves
2KPN-11 Primary Bkr Backup Fuse	Misc Control Power for 2ATC 24
6. DC Welding Circuits	
2EQCB0001 Primary Bkr - AA Backup Bkr - AB	Lower Containment DC Welding Circuit
2EQCB0002 Primary Bkr - AA Backup Bkr - AB	Upper Containment DC Welding Circuit