

# **ELECTRICAL PENETRATION PROTECTION INSTRUMENT CIRCUITS**

3010160590

**NORTH ANNA POWER STATION - UNIT 2  
VIRGINIA ELECTRIC AND POWER COMPANY**



**STONE & WEBSTER ENGINEERING CORPORATION  
BOSTON, MASSACHUSETTS**

REVISION NO. 1      9/24/80

Penetration						
Position	Type	Conductor	Continuing Rate	Load	Max Available Fault Current	Protection Device
2F1-2	IC	10 AWG	31A	Inter Plant Communication	NA	NA
				Loop 1 Delta T Avg Control (TE-2411D)	300mA	Spare
				Loop 1 Delta T Avg Control (TE-2411D)	300mA	Spare
				Pressurizer Level (LT-RC2000)	40mA	1A Little Fuse Submin. Type 275001
				Pressurizer Press (PT-RC2000)	40mA	1A Little Fuse Submin. Type 275001
6B-2	IB	14 AWG	12A	Loop 1 Red Ckt	4A	Fusetron FNM-10
6C-2	IB	14 AWG	12A	Loop 2 Red Ckt	4A	Fusetron FNM-10
				Air Operated Damper (HV-257A)	4A	Fusetron FNM-10
				Air Operated Damp (HV-257C)	4A	Fusetron FNM-10
6D-2	IB	14 AWG	12A	Loop 3 Red Ckt	4A	Fusetron FNM-10
7A-2	III	16 AWG Triax	10.5A	DET NE-41A&B		Installed Spare
				DET NE-41A&B		Installed Spare
				DET NE-41A&B (Triax)		Spared at Penetration Box
				DET NE-41A (Triax)	1.2A	Busman MTN-5
				DET NE-41A&B (Triax)	1.0mA	Busman MTN-5
				DET NE-41B (Triax)	1.2A	Busman MTN-5
DET NE-41A&B (Triax)		Installed Spare				

Penetration										
Position	Type	Conductor	Continuous Rating	Load	Max Available Fault Current	Protection Device				
7B-2	III	16 AWG Triax	10.5A	DET NE-31&35		Spared at Penetration Box				
				DET NE-31&35		Installed Spare				
				DET NE-31&35		Installed Spare				
				DET NE-31&35 (Triax)		Spared at Penetration Box				
				DET NE-35 (Triax)	2.5A	Busman MTH-5				
				DET NE-35 (Triax)	20mA	Busman MTH-5				
				DET NE-35 (Triax)	10mA	Busman MTH-5				
				DET NE-31&35 (Triax)		Installed Spare				
				DET NE-31 (Triax)	10mA	Busman MTH-5				
				DET NE-31&35 (Triax)		Installed Spare				
				DET NE-31&35 (Triax)		Installed Spare				
				7D-2	IA	16 AWG	10.5A	Residual Ht Removal Ht Excr Hdr A (FT-CC232A)	40mA	IA Little Fuse Submin. Type 275001
								PEX System	NA	NA
				Sta Gen Sup Htr, Loop A (TE-AM210A-2)	300mA	IA Little Fuse Submin. Type 275001				
				Instrument Air Comp (2-IA-C-02A)		Spare				
				SG 2 NAR RGE LEV DP (LT-2434)	40mA	IA Little Fuse Submin. Type 275001				
				Microphone	NA	NA				
				Microphone	NA	NA				
				PREAMP - Loose Parts Monitoring (YY-LPM200A)	4mA	Busman GMW 1/2A				
				PREAMP - Loose Parts Monitoring (YY-LPM200B)	4mA	Busman GMW 1/2A				
				PREAMP - Loose Parts Monitoring (YY-LPM200C)	4mA	Busman GMW 1/2A				
				PREAMP - Loose Parts Monitoring (YY-LPM200D)	4mA	Busman GMW 1/2A				
				PREAMP - Loose Parts Monitoring (YY-LPM200E)	4mA	Busman GMW 1/2A				
				PREAMP - Loose Parts Monitoring (YY-LPM200F)	4mA	Busman GMW 1/2A				
				PREAMP - Loose Parts Monitoring (YY-LPM200G)	4mA	Busman GMW 1/2A				
				ROP C Therm Barr (FT-CC216C)	40mA	IA Little Fuse Submin. Type 275001				
				RCS (FT-2434)	40mA	IA Little Fuse Submin. Type 275001				

Penetration			Continuous Rating	Load	Max Available Fault Current	Protection Device
Position	Type	Conductor				
				RCS Flow Loop 1 (PT-2414)	40mA	1A Little Fuse Submin. Type 275001
				RCP A Therm Barr (PT-CC216A)	40mA	1A Little Fuse Submin. Type 275001
				SG 3 NAR RGE (LT-2494)	40mA	1A Little Fuse Submin. Type 275001
				PHZR Pressure (PT-2455)	40mA	1A Little Fuse Submin. Type 275001
				PHZR Level (LT-2459)	40mA	1A Little Fuse Submin. Type 275001
				RCP B Therm Barr (PT-CC216B)	40mA	1A Little Fuse Submin. Type 275001
				RCS Flow Loop 2 (PT-2424)	40mA	1A Little Fuse Submin. Type 275001
				Neutron Surge Shld Tk Level (LT-NS200)	40mA	1A Little Fuse Submin. Type 275001
				SG 1 NAR RGE LEV (LT-2474)	40mA	1A Little Fuse Submin. Type 275001
				RCS Wide Range (PT-2402)	40mA	1A Little Fuse Submin. Type 275001
7E-2	1A	16 AWG	10.5A	Stm Gen Sup Htr Loop A (TE-AM211A-2)	300mA	1A Little Fuse Submin. Type 275001
				Proximity Probe P1-RCP A	24mA	Busman MDL 2.5A
				Velocity Seismoprobe SP2-RCP A	46mA	Busman MDL 2.5A
				Velocity Scismoprobe SPI-RCP A	46mA	Busman MDL 2.5A
				Loop 1 Delta T Avg (TE-2412C)		Spare
				Loop 1 Delta T Avg (TE-2411D)		Spare
				Loop 1 Delta T Avg (TE-2412D)	300mA	1A Little Fuse Submin. Type 275001
				Loop 1 Delta T Avg (TE-2412B)	300mA	1A Little Fuse Submin. Type 275001
				Loop 1 Hot Leg (TE-2413)	300mA	1A Little Fuse Submin. Type 275001
				Loop 2 Hot Leg (TE-2423)	300mA	1A Little Fuse Submin. Type 275001
				Loop 3 Hot Leg (TE-2433)	300mA	1A Little Fuse Submin. Type 275001

Penetration						
Position	Type	Conductor	Continuous Rating	Load	Max Available Fault Current	Protection Device
				Reac Containment Sup Level (LT-RS251A)	20mA	1A Little Fuse Submin. Type 275001
				RCP A Therm Barr Clng Wtr Out (TE-CC245A)	300mA	1A Little Fuse Submin. Type 275001
				RCP B Therm Barr Clng Wtr Out (TE-CC245B)	300mA	1A Little Fuse Submin. Type 275001
				RCP C Therm Barr Clng Wtr Out (TE-CC245C)	300mA	1A Little Fuse Submin. Type 275001
				Leakage Monitoring at Loop 1 (TE-IM200-1)	300mA	1A Little Fuse Submin. Type 275001
				Containment Sump (TE-RS250A)	300mA	1A Little Fuse Submin. Type 275001
				Recirc Spr Cooler 1A (TE-RS254A)	300mA	1A Little Fuse Submin. Type 275001
				Recirc Spr Cooler 1C (TE-RS256B)	300mA	1A Little Fuse Submin. Type 275001
				Residual Heat Removal PP (TE-2604)	300mA	1A Little Fuse Submin. Type 275001
8B-2	1A	16 AWG	10.5A	5 Path Rot Trans SW for Ass A (PRT-5A-2)		2A Little Fuse Type 313002*
				10 Path Rot Trans SW for Ass A (PRT-10A-2)	5A	2A Little Fuse Type 313002
				Drive Assembly "A"		Little Fuse 5A (313005), 1A (313001) and 5A (313005)*
				Drive Assembly "A"	250mA	2A Little Fuse Type 313002
				5 Path Rot Trans SW for Ass B (PRT-5B-2)		2A Little Fuse Type 313002*
				10 Path Rot Trans SW for Ass B (PRT-10B-2)	5A	2A Little Fuse Type 313002
				Drive Assembly "B"		Little Fuse 5A (313005)*
				Drive Assembly "B"	250mA	2A Little Fuse Type 313002
8C-2	1A	16 AWG	10.5A	Plug Box for Cont Rod Ca (Typical)	4.5A	Busman MDH-5A
				Proximity Probe P1 - RCP A	24mA	Busman MDL 2.5A
				Proximity Probe P2 - RCP A	46mA	Busman MDL 2.5A
				Velocity Seismoprobe SP1 - RCP C	46mA	Busman MDL 2.5A
				Evacuation Horn (2-NE-CS-01)		Busman AGC 2A*

\*Proposed secondary protection: Chase-Shawmut OT-6

Penetration				Load	Max Available Fault Current	Protection Device				
Position	Type	Conductor	Continuous Rating							
8D-2	1A	16 AWG	10.5A	Plug Box for Cont Rod Ca (Typical)	4.5A	Bussman MTH-5A				
				Leakage Monitor (MT-LM200-1)	40mA	1A Little Fuse Submin. Type 275001				
				Containment Dew Point 2T (MT-LM200-2)	10mA	Bussman AGC 1/2A				
				Containment Dew Point 3T (MT-LM200-3)	10mA	Bussman AGC 1/2A				
				RHR PP A Seal Hx Clng Wtr Out (TE-CC250A)	10mA	Bussman AGC 1/2 A				
				RHR PP B Seal Hx Clng Wtr Out (TE-CC250B)	10mA	Bussman AGC 1/2A				
				Neut Shld Tk Hx A Clng Wtr Out (TE-CC257A)	10mA	Bussman AGC 1/2A				
				Neut Shld Tk Hx B Clng Wtr Out (TE-CC257B)	10mA	Bu. man AGC 1/2A				
				PR1 Component Cooling (TE-CC272)	300mA	1A Little Fuse Submin. Type 275001				
				Neut Shld Tk Pump Suct (TE-NS200)	300mA	1A Little Fuse Submin. Type 275001				
				Neut Shld Tk Cooler in 1 (TE-NS201A)	10mA	Bussman AGC 1/2A				
				Neut Shld Tk Cooler in 2 (TE-NS201B)	10mA	Bussman AGC 1/2A				
				Loop 2 RCP Shaft Seal (TE-2129)	10mA	Bussman AGC 1/2A				
				Pressurizer Liquid (TE-2453)	300mA	1A Little Fuse Submin. Type 275001				
				9B-2	1A	16 AWG	10.5A	Plug Box for Cont Rod Ca (Typical)	4.5A	Bussman MTH-5
								Containment Air 20 (TE-LM200-20)	10mA	Bussman AGC 1/2A
				9C-2	1A	16 AWG	10.5A	Plug Box for Cont Rod Ca (Typical)	4.5A	Bussman MTH-5
				Containment Air 20 (TE-LM200-20)	10mA	Bussman AGC 1/2A				

Position	Penetration		Continuous Rating	Load	Max Available Fault Current	Protection Device
	Type	Conductor				
9D-2	IA	16 AWG	10.5A	RCP 2 IB L.O. Cool (PT-CC215B)	40mA	1A Little Fuse Submin. Type 275001
				SG 2 WD NGE Lev (LT-2487)	40mA	1A Little Fuse Submin. Type 275001
				Microphone	NA	NA
				Microphone	NA	NA
				Preamp-Valve Monitoring System (YY-VMS201A-1)		Spare
				RHR PF to Accum (PCV-2605)	20.1mA	1/2A Fuse
				Neut Shld Tk Clr In (PT-CC219B)	40mA	1A Little Fuse Submin. Type 275001
				Press to Relief Tk (MOV-2536)	930mA	Breaker GE TE-15A
				Inst Air Dryer Out (PI-IA201)	40mA	1A Little Fuse Submin. Type 275001
				Neut Shld Tk Clr In (PT-CC219A)	40mA	1A Little Fuse Submin. Type 275001
				RCP 2 Seal Lk-off (PT-2155B)	40mA	1A Little Fuse Submin. Type 275001
				Pressurizer Relief Tk (PT-2472)	40mA	1A Little Fuse Submin. Type 275001
				RCP 2 Seal Lk-off (PT-2155A)	40mA	1A Little Fuse Submin. Type 275001
				Pressurizer Pressure Cont (PT-2444)	40mA	1A Little Fuse Submin. Type 275001
				Pressurizer Lev Calib (LT-2462)	80mA	100mA Fuse
				Loop 3 to PRZR (PCV-2455B)	20.1mA	1/2A Fuse
				Loop 1 to PRZR (PCV-2455A)	20.1mA	1/2A Fuse
				RCP 2 Stat Clr (PT-CC213B)	40mA	1A Little Fuse Submin. Type 275001
				RCP 2 Seal DP (PT-2155)	40mA	1A Little Fuse Submin. Type 275001
				RCP 2 Stat Clr (PT-CC214B)	40mA	1A Little Fuse Submin. Type 275001
				RCP 2 UBLE Clr Out (PT-CC212B)	40mA	1A Little Fuse Submin. Type 275001
				N2 Supply Line (HCV-2936)	20.1mA	1/2A Fuse
				Preamp-Valve Monitoring System (YY-VMS201B-1)		Spare

Penetration				Load	Max Available Fault Current	Protection Device
Position	Type	Conductor	Continuous Rating			
				Resc Containment Sump Lev (LT-DA210A)	40mA	1A Little Fuse Submin. Type 275001
				Pressurizer Rel Tk Lev (LT-2470)	40mA	1/2A Fuse
				Loop 2 Seal Diff Press Ind (PI-2155B)	40mA	1A Little Fuse Submin. Type 275001
				Preamp - Valve Monitoring System (YY-VMS200A-1)	4mA	Busman GMW 1/2A
				Preamp - Valve Monitoring System (YY-VMS200B-1)	4mA	Busman GMW 1/2A
				Preamp - Valve Monitoring System (YY-VMS200C-1)	4mA	Busman GMW 1/2A
9E-2	1A	16 AWG	10.5A	Shroud B Air Out (TE-HV2225B)	10mA	Busman AGC 1/2A
				RCP B Shroud Hx Cing Wtr Out (TE-CC240B)	10mA	Busman AGC 1/2A
				RCP B Up Brg LO Hx Cing Wtr Out (TE-CC241B)	10mA	Busman AGC 1/2A
				RCP B Stator Cing Wtr Out (TE-CC242B)	10mA	Busman AGC 1/2A
				RCP B Stator Cing Wtr Out (TE-CC243B)	10mA	Busman AGC 1/2A
				RCP B LO Brg LO Hx Cing Wtr Out (TE-CC244B)	10mA	Busman AGC 1/2A
				RCP B Cing Wtr Supply Hdr (TE-CC246B)	10mA	Busman AGC 1/2A
				Loop 2 RCP Outlet Header (TE-CC248B)	300mA	1A Little Fuse Submin. Type 215001
				Regen Heat Exch Outlet (TE-2123)	10mA	Busman AGC 1/2A
				Loop 2 RCP Bearing Temp (TE-2128)	300mA	1A Little Fuse Submin. Type 275001
				Regen Heat Exch Letdown (TE-2140)	300mA	1A Little Fuse Submin. Type 275001
				Letdown Relief Line (TE-2144)	300mA	1A Little Fuse Submin. Type 275001
				Loop 2 RCP UPR Thrust Brg (TE-2427A)	10mA	Busman AGC 1/2A
				Loop 2 RCP LWR Thrust Brg (TE-2427B)	10mA	Busman AGC 1/2A



Position	Penetration		Continuous Rating	Load	Max Available Fault Current	Protection Device
	Type	Conductor				
				Loop 2 RCP UPR Guide Brg (TE-2428A)	10mA	Bussman AGC 1/2A
				Loop 2 RCP Stator Winding (TE-2428B)	10mA	Bussman AGC 1/2A
				Loop 2 RCP LWR Guide Brg (TE-2429)	10mA	Bussman AGC 1/2A
				Pressurizer Surge Line (TE-2450)	300mA	1A Little Fuse Submin. Type 275001
				Pressurizer Spray Line (TE-2452)	300mA	1A Little Fuse Submin. Type 275001
				Pressurizer Power Relief (TE-2463)	300mA	1A Little Fuse Submin. Type 275001
				Pressurizer Safety Relief (TE-2465)	300mA	1A Little Fuse Submin. Type 275001
				Pressurizer Safety Relief (TE-2467)	300mA	1A Little Fuse Submin. Type 275001
				Pressurizer Safety Relief (TE-2469)	300mA	1A Little Fuse Submin. Type 275001
				Pressurizer Relief Tk (TE-2471)	300mA	1A Little Fuse Submin. Type 275001
10A-2	III	16 AWG Triax	10.5A	DET NE-42B (Triax)	1.2A	Bussman MTH-5
				DET NE-42A&B (Triax)		Installed Spare
				DET NE-42A&B		Installed Spare
				DET NE-42A&B (Triax)	18mA	Bussman MTH-5
				DET NE-42A&B		Installed Spare
				DET NE-42A (Triax)	1.2A	Bussman MTH-5
				DET NE-42A&B (Triax)		Spared in Penetration Box
10B-2	III	16 AWG Triax	10.5A	DET NE-36 (Triax)	2.5A	Bussman MTH-5
				DET NE-36 (Triax)	18mA	Bussman MTH-5
				DET NE-32 (Triax)	18mA	Bussman MTH-5
				DET NE-32&36 (Triax)		Installed Spare
				DET NE-36 (Triax)	20mA	Bussman MTH-5
				DET NE-32&36 (Triax)		Spared in Penetration Box
				DET NE-32&36		Installed Spare

Position	Type	Conductor	Penetration		Load	Max Available Fault Current	Protection Device
			Continuous Rating				
					DET NE-3X36 DET NE-3X36 (Triax) DET NE-3X36 (Triax) DET NE-3X36		Installed Spare Installed Spare Installed Spare Spared in Penetration Box
10B-2	1A	16 AWG	10.5A		Velocity Siesmoprobe SP2-RCP C Proximity Probe P1-RCP C Proximity Probe P2-RCP C Proximity Probe KJ-RCP C Loop 1 Cold Leg (TE-2410) Loop 2 Cold Leg (TE-2420) Loop 2 Delta T Avg (TE-2422C) Loop 2 Delta T Avg (TE-2421D) Loop 2 Delta T Avg (TE-2422D) Loop 2 Delta T Avg (TE-2422B) Loop 3 Cold Leg (TE-2430) Containment Air 18 (TE-LM200-18) Containment Air 11 (TE-LM200-11) Containment Air 14 (TE-LM200-14) Containment Air 19 (TE-LM200-19) Leakage Monitor at Loop No. 2 (TE-LM200-2) Containment Air 5 (TE-LM200-5) Containment Sump (TE-RS250B) Recirc Spr Cooler 1B (TE-RS254B) Recirc Spr Cooler 1D (TE-RS256A)	40mA 24mA 24mA 24mA 300mA      300mA 300mA 300mA 300mA 300mA 10mA 10mA 10mA 10mA 300mA 10mA 300mA 300mA 40mA	Busman MDL 2.5A Busman MDL 2.5A Busman MDL 2.5A Busman MDL 2.5A 1A Little Fuse Submin. Type 275001 Spare Spare 1A Little Fuse Submin. Type 275001 1A Little Fuse Submin. Type 275001 1A Little Fuse Submin. Type 275001 1A Little Fuse Submin. Type 275001 1A Little Fuse Submin. Type 275001 Busman AGC 1/2A Busman AGC 1/2A Busman AGC 1/2A Busman AGC 1/2A 1A Little Fuse Submin. Type 275001 Busman AGC 1/2A 1A Little Fuse Submin. Type 275001 1A Little Fuse Submin. Type 275001 1A Little Fuse Submin. Type 275001

Penetration				Load	Max Available Fault Current	Protection Device
Position	Type	Conductor	Continuous Rating			
10B-2	1A	16 AWG	10.5A	Loop 3 RCS Flow DP (PT-2435)	40mA	1A Little Fuse Submin. Type 275001
				Loop 1 Cold Leg DP (PT-2933)	80mA	100mA Fuse
				RCS Wide Range (PT-2402-1)	40mA	1A Little Fuse Submin. Type 275001
				Stm Gen Sup Htr Loop C (TE-AM222C-1)	300mA	1A Little Fuse Submin. Type 275001
				Stm Gen Sup Htr Loop A (TE-AM210B-1)	300mA	1A Little Fuse Submin. Type 275001
				Stm Gen Sup Htr Loop B (TE-AM211B-1)	300mA	1A Little Fuse Submin. Type 275001
				Stm Gen Sup Htr Loop C (TE-AM210C-2)	300mA	2A Little Fuse Submin. Type 275001
				Stm Gen Sup Htr Loop C (TE-AM211C-2)	300mA	1A Little Fuse Submin. Type 275001
				Stm Gen Sup Htr Loop A (TE-AM222A-1)	300mA	1A Little Fuse Submin. Type 275001
				Stm Gen Sup Htr Loop B (TE-AM222B-1)	300mA	1A Little Fuse Submin. Type 275001
				SG 1 NAR RGE LEV (LT-2475)	40mA	1A Little Fuse Submin. Type 275001
				RCS Flow Loop 1 (PT-2415)	40mA	1A Little Fuse Submin. Type 275001
				Accum Tk 1 Press (PT-2921)	40mA	1A Little Fuse Submin. Type 275001
				Loop 3 Hot Leg SI (PT-2932)	80mA	100mA Fuse
				Accum Tk 3 Press (PT-2929)	40mA	1A Little Fuse Submin. Type 275001
				SG 3 NAR RGE LEV (LT-2495)	40mA	1A Little Fuse Submin. Type 275001
				Pressurizer Level (IT-2460)	80mA	1A Little Fuse Submin. Type 275001
				Pressurizer Pressure (PT-2456)	40mA	1A Little Fuse Submin. Type 275001
				RCS Flow Loop 2 (PT-2425)	40mA	1A Little Fuse Submin. Type 275001
				Accum Tk 2 Press (PT-2925)	40mA	1A Little Fuse Submin. Type 275001

Penetration				Load	Max Available Fault Current	Protection Device
Position	Type	Conductor	Continuous Rating			
				Loop 2 Hot Leg SI (PT-2960)	40mA	1A Little Fuse Submin. Type 275001
				SG 2 NAR RGE LEV (LT-2485)	40mA	1A Little Fuse Submin. Type 275001
				Accum Tk 1 Level (LT-2920)	40mA	1A Little Fuse Submin. Type 275001
				Accum Tk 2 Level (LT-2924)	40mA	1A Little Fuse Submin. Type 275001
				Accum Tk 3 Level (LT-2928)	40mA	1A Little Fuse Submin. Type 275001
11A-2	IC	10AWG	31A	GAITRONICS	NA	NA
11C-2	IC	10 AWG	31A	Loop 1 SIS	4A	Fusetron FNM-10
11D-2	IC	10 AWG	31A	Loop 2 SIS GAITRONICS	4A NA	Fusetron FNM-10 NA
11E-2	IC	10 AWG	31A	Loop 3 SIS	4A	Fusetron FNM-10
15A-2	III	16 AWG Triax	10.5A	DET NE-44A&B (Triax) DET NE-44A (Triax) DET NE-44B (Triax) DET NE-44A&B (Triax) DET NE-44A&B DET NE-44A&B (Triax) DET NE-44A&B	10mA 1.2A 1.2A	Busman MTH-5 Busman MTH-5 Busman MTH-5 Installed Spare Installed Spare Spared in Penetration Box Installed Spare
15B-2	III	16 AWG Triax	10.5A	DET Spares (Triax) DET Spares DET Spares (Triax) DET Spares (Triax) DET Spares (Triax)		Installed Spare Installed Spare Installed Spare Installed Spare Installed Spare

Position	Penetration		Continuous Rating	Load	Max Available Fault Current	Protective Device
	Type	Conductor				
				DET Spares DET Spares (Triax) DET Spares (Triax) DET Spares (Triax)		Installed Spare Installed Spare Installed Spare Spared in Penetration Box
15C-2	III	16 AWG Triax	10.5A	DRIV ASS-A-2 (TA Ax) DRIV ASS-B-2 (Triax) DRIV ASS-C-2 (Triax) DRIV ASS-D-2 (Triax) DRIV ASS-E-2 (Triax)		3/4A Little Fuse Type 313.750 * 3/4A Little Fuse Type 313.750 * 3/4A Little Fuse Type 313.750 * 3/4A Little Fuse Type 313.750 * 3/4A Little Fuse Type 313.750 *
15D-2	IA	16 AWG	10.5A	Velocity Seismoprobe SP2-RCP B Velocity Seismoprobe SP1-RCP B Proximity Probe P1-RCP B Proximity Probe P2-RCP B Proximity Probe K <sub>2</sub> -RC <sup>o</sup> B Loop 1 Delta T Avg (TE-2411C) Loop 1 Delta T Avg (TE-2411B) RCP A Shroud Hx Clng Wtr Out (TE-CC240A) RCP A UP BRG LO Hx Clng Wtr Out (TE-CC241A) RCP A Stator Clng Wtr Out (TE-CC242A) RCP A Stator Clng Wtr Out (TE-CC243A) RCP A LO BRG LO Hx Clng Wtr Out (TE-CC244A) RCP C Clng Wtr Supply Hdr (TE-CC246C) NHR PP and LTDWN Hx Sply Hdr (TE-CC247)	40mA 40mA 24mA 24mA 24mA 300mA 300mA 10mA 10mA 10mA 10mA 10mA 10mA 10mA 10mA 10mA	Busman MDL 2.5A Busman MDL 2.5A Busman MDL 2.5A Busman MDL 2.5A Busman MDL 2.5A 1A Little Fuse Submin. Type 275001 1A Little Fuse Submin. Type 275001 Busman AGC 1/2A Busman AGC 1/2A Busman AGC 1/2A Busman AGC 1/2A Busman AGC 1/2A Busman AGC 1/2A Busman AGC 1/2A Busman AGC 1/2A Busman AGC 1/2A

\*Proposed secondary protection: Chase-Shawmut OT-6

Penetration				Load	Max Available Fault Current	Protection Device
Position	Type	Conductor	Continuous Rating			
				Loop 1 RCP Outlet Header (TE-CC24AA)	300mA	1A Little Fuse Submin. Type 275001
				Cont Vacuum (TE-CV201B-1)	300mA	1A Little Fuse Submin. Type 275001
				Cont Vacuum (TE-CV201B-2)	300mA	1A Little Fuse Submin. Type 275001
				Cont Vacuum (TE-CV201B-3)	300mA	1A Little Fuse Submin. Type 275001
				Pressurizer Vapor (TE-2454)	300mA	1A Little Fuse Submin. Type 275001
15B-2	IA	16 AWG	10.5A	Stm Gen Sup Htr Loop C / (TE-AM222C-2)	300mA	1A Little Fuse Submin. Type 275001
				Stm Gen Sup Htr Loop A (TE-AM211A-1)	300mA	1A Little Fuse Submin. Type 275001
				Stm Gen Sup Htr Loop A (TE-AM210A-1)	300mA	1A Little Fuse Submin. Type 275001
				Stm Gen Sup Htr Loop A (TE-AM222A-2)	300mA	1A Little Fuse Submin. Type 275001
				Stm Gen Sup Htr Loop B (TE-AM222B-2)	300mA	1A Little Fuse Submin. Type 275001
				Preamp Valve Monitoring Sys (YY-VMS201A-2)		Spare
				Preamp VALVE Monitoring (YY-VMS201B-2)		Spare
				Drive Assembly "D"	250mA	2A Little Fuse Type 313002
				Drive Assembly "A"	NA	Phone Connection
				Drive Assembly "A"	250mA	2A Little Fuse Type 313002
				Drive Assembly "A"	250mA	2A Little Fuse Type 313002
				Drive Assembly "B"	250mA	2A Little Fuse Type 313002
				Drive Assembly "C"	250mA	2A Little Fuse Type 313002
				Loop Fill Header (PT-2160)	40mA	1A Little Fuse Submin. Type 275001
				SG 2 Steam Flow (PT-2485)	40mA	1A Little Fuse Submin. Type 275001
				SG 1 Steam Flow (PT-2475)	40mA	1A Little Fuse Submin. Type 275001
				SG 3 Steam Flow (PT-2495)	40mA	1A Little Fuse Submin. Type 275001

Position	Type	Penetration		Load	Max Available Fault Current	Protection Device
		Conductor	Continuous Rating			
				Pressurizer Press Calib (PT-2458B)	50mA	1/2A Fuse
				Disch Press: 2-DG-P-01AAB (PT-DG200)	40mA	1A Little Fuse Submin. Type 275001
				Recirc Spray PF (PT-RS252B)	40mA	1A Little Fuse Submin. Type 275001
				RCS Press Prot Set 4 (PT-1403)	40mA	1A Little Fuse Submin. Type 275001
				Preamp - Valve Monitoring System (YY-VMS200A-2)	4mA	Bussman GMW 1/2A
				Preamp - Valve Monitoring System (YY-VMS200B-2)	4mA	Bussman GMW 1/2A
				Preamp - Valve Monitoring System (YY-VMS200C-2)	4mA	Bussman GMW 1/2A
16A-2	VI	16 AWG Coax	10.5A	Radiation Monitor - Manipulator Crane (RM-RMS262)	1mA	2A Little Fuse Type 313002
				Radiation Monitor - Reac Cont (RM-RMS263)	1mA	2A Little Fuse Type 313002
				Radiation Monitor - Incore Inst (RM-RMS264)	1mA	2A Little Fuse Type 313002
16B-2	IB	14 AWG	12A	RCP 1 Seal Bypass (FIC-2156)	4A	Fusetron FNM-10
				Excess LD Ht Exch Outlet (FS-CC210)	4A	Fusetron FNM-10
				RIR FP A Seal Wtr Inl (FS-CC231A)	4A	Fusetron FNM-10
				RIR FP B Seal Wtr Inl (FS-CC231B)	4A	Fusetron FNM-10
				Loop 1 XConn (MOV-2585)		Spare
				Loop 2 XConn (MOV-2586)		Spare
				Loop 3 XConn (MOV-2587)		Spare
				ACC Tk 1 CD LG (MOV-2865A)	4A	Fusetron FNM-10
				ACC Tk 2 CD LG (MOV-2865B)	4A	Fusetron FNM-10
				Pressurizer Press (PC-2455C)	4A	Fusetron FNM-10

Penetration			Load	Max Available Fault Current	Protection Device
Position	Type	Conductor Continuous Rating			
			ACC Tk 3 CD LG (MOV-2865C)	4A	Fusetron FFM-10
			Vibration Switch - Recirc Spary PP A	4A	Fusetron FFM-10
			Vibration Switch - Recirc Spary PP B	4A	Fusetron FFM-10
			Incore Instr KM Sump Level (LS-DA206)	4A	Fusetron FFM-10
			Loop 3 RCP Stand Pipe Level (LC-2408A)	4A	Fusetron FFM-10
			Loop 3 RTD Bypass (FIC-2492)	4A	Fusetron FFM-10
			RCP 3 Seal Bypass (FIC-2154)	4A	Fusetron FFM-10
			Residual HT Rem PP (FIC-2602)	4A	Fusetron FFM-10
			Loop 1 RTD Bypass (FIC-2490)	4A	Fusetron FFM-10
			RCP 2 Seal Bypass (FIC-2155)	4A	Fusetron FFM-10
			Loop 2 RTD Bypass (FIC-2491)	4A	Fusetron FFM-10
			Loop 1 RCP Stand Pipe Level (LC-2406A)	4A	Fusetron FFM-10
			Loop 1 RCP Stand Pipe Level (LC-2406B)	4A	Fusetron FFM-10
			Loop 2 RCP Stand Pipe Level (LC-2407A)	4A	Fusetron FFM-10
			Loop 2 RCP Stand Pipe Level (LC-2407B)	4A	Fusetron FFM-10
			Loop 3 RCP Stand Pipe Level (LC-2408B)	4A	Fusetron FFM-10
			Loop 1 RCP Upper Brg (LC-2417)	4A	Fusetron FFM-10
			Loop 1 RCP Lower Brg (LC-2419)	4A	Fusetron FFM-10
			Loop 2 RCP Upper Brg (LC-2427)	4A	Fusetron FFM-10
			Loop 2 RCP Lower Brg (LC-2429)	4A	Fusetron FFM-10
			Loop 3 RCP Upper Brg (LC-2437)	4A	Fusetron FFM-10
			Loop 3 RCP Lower Brg (LC-2439)	4A	Fusetron FFM-10
			Prim Drain Trans Tank (LS-DG200)	4A	Fusetron FFM-10
			Prim Drain Trans Tank (LS-DG202)	4A	Fusetron FFM-10



Position	Type	Penetration		Load	Max Available Fault Current	Protection Device
		Conductor	Continuous Rating			
				RCS Overpress N2 Sup (PS-GN224A)	4A	Fusetron FNM-10
				RCS Overpress N2 Sup (PS-GN224B)	4A	Fusetron FNM-10
16C-2	IA	16 AWG	10.5A	Sound Power	NA	NA
				5 Path Rot Trans SW for ASS E (PRT-5E-2)		2A Little Fuse Type 313002*
				10 Path Rot Trans SW for ASS E (PRT-10E-2)	5A	2A Little Fuse Type 313002
				Drive Assembly "E"	250mA	2A Little Fuse Type 313002
				Drive Assembly "E"		Little Fuse 5A (313005)*
				Microphone	NA	NA
16D-2	IA	16 AWG	10.5A	Residual Ht Remvl at Excr A (FT-CC232B)	40mA	1A Little Fuse Submin. Type 275001
				Preamp - Loose Parts Monitoring (YY-LFM200H)	4mA	Bussman GFW 1/2A
				Preamp - Loose Parts Monitoring (YY-LFM200J)	4mA	Bussman GFW 1/2A
				Preamp - Loose Parts Monitoring (YY-LFM200K)	4mA	Bussman GFW 1/2A
				Whittaker Ref. JB-2 (Typical)	10mA	Not Fused 15mV D-C
16E-2	IA	16 AWG	10.5A	Instrument Air Comp (2-IA-C-02B)	4A	Fusetron FNM-10
				Whittaker Ref. JB-1 (Typical)	10mA	15V DC
				Whittaker Ref. JB-1 (Typical)	10mA	15V DC
				Containment Dew Point 4T (MT-1M200-4)	10mA	Bussman AGC 1/2A
				Containment Dew Point 5T (MT-1M200-5)	10mA	Bussman AGC 1/2A
				RCP C Shroud Hx Clng Wtr Out (TE-CC240C)	10mA	Bussman AGC 1/2A
				RCP C BRG LO Hx Clng Wtr Out (TE-CC241C)	10mA	Bussman AGC 1/2A
				RCP C Stator Clng Wtr Out (TE-CC242C)	10mA	Bussman AGC 1/2A

\*Proposed secondary protection: Chase-Shawmut OT-6

Position	Type	Penetration		Load	Max Available Fault Current	Protection Device
		Conductor	Continuous Rating			
				RCP C Stator Clng Wtr Out (TE-CC243C)	10mA	Busman AGC 1/2A
				RCP C LO BRG Hx Clng Wtr Out (TE-CC244C)	10mA	Busman AGC 1/2A
				RCP A Clng Wtr Supply Hdr (TE-CC246A)	10mA	Busman AGC 1/2A
				Loop 3 RCP Outlet Hdr (TE-CC248C)	300mA	1A Little Fuse Submin. Type 275001
				Exch Letdn Htr Exh Outlt (TE-CC251)	300mA	1A Little Fuse Submin. Type 275001
				Containment Air 6 (TE-IM200-6)	10mA	Busman AGC 1/2A
				Loop 3 RCP Bearing Temp (TE-2125)	10mA	Busman AGC 1/2A
				Loop 3 RCP Shaft Seal (TE-2126)	10mA	Busman AGC 1/2A
				Heat Exch Excess Letdown (TE-2139)	300mA	1A Little Fuse Submin. Type 275001
				Loop 3 RCP Up Thrust BRG (TE-2437A)	10mA	Busman AGC 1/2A
				Loop 3 RCP Lwr Thrust BRG (TE-2437B)	10mA	Busman AGC 1/2A
				Loop 3 RCP Up Guide BRG (TE-2438A)	10mA	Busman AGC 1/2A
				Loop 3 RCP Stator Winding (TE-2438B)	10mA	Busman AGC 1/2A
				Loop 3 RCP Lwr Guide BRG (TE-2439)	10mA	Busman AGC 1/2A
				Resid Heat Exch Outlet (TE-2606)	300mA	1A Little Fuse Submin. Type 275001
17E-2	IV	Copper- Constantan		RHR PP A Mtr Up BRG (TE-RH201A-1)	10mA	Busman AGC 1/2A
				RHR PP A Mtr LO BRG (TE-RH201A-2)	10mA	Busman AGC 1/2A
				RHR PP B Mtr Up BRG (TE-RH201B-1)	10mA	Busman AGC 1/2A
				RHR PP B Mtr LO BRG (TE-RH201B-2)	10mA	Busman AGC 1/2A

Position	Penetration		Continuous Rating	Load	Max Available Fault Current	Protection Device
	Type	Conductor				
18A-2	III	16 AWG Triax	10.5A	DET NE-43A&P DET NE-43A&B DET NE-43A&B (Triax) DET NE-43A (Triax) DET NE-43A&B (Triax) DET NE-43B (Triax) DET NE-43A&B (Triax)	18mA 1.2A 1.2A	Installed Spare Installed Spare Bussman MTH-5 Bussman MTH-5 Installed Spare Bussman MTH-5 Spared in Penetration Box
18B-2	III	16 AWG Triax	10.5A	DET Spare (Triax) DET Spare (Triax) DET Spares DET Spare (Triax) DET Spare (Triax) DET Spare (Triax) DET Spare (Triax) DET Spares DET Spare (Triax) DET Spare (Triax)		Installed Spare Installed Spare Installed Spare Installed Spare Installed Spare Installed Spare Installed Spare Installed Spare Installed Spare Spared in Penetration Box
18D-2	IA	16 AWG	10.5A	Shroud A Air Out (TE-HV2225A) Shroud B Air Out (TE-HV2225C) Loop 2 Delta T Avg (TE-2421C) Loop 2 Delta T Avg (TE-2421B) Loop 3 Delta T Avg (TE-2431B) Loop 3 Delta T Avg (TE-2431C) Loop 3 Delta T Avg (TE-2432D) Loop 3 Delta T Avg (TE-2432B) Loop 3 Delta T Avg (TE-2432C) Loop 3 Delta T Avg (TE-2431D)	10mA 10mA 300mA 300mA 300mA 300mA 300mA 300mA 300mA 300mA	Bussman AGC 1/2A Bussman AGC 1/2A 1A Little Fuse Submin. Type 275001 1A Little Fuse Submin. Type 275001 1A Little Fuse Submin. Type 275001 1A Little Fuse Submin. Type 275001 1A Little Fuse Submin. Type 275001 1A Little Fuse Submin. Type 275001 Spare Spare

Penetration				Load	Max Available Fault Current	Protection Device
Position	Type	Conductor	Continuous Rating			
				Reac Containment Sump (LT-DA210B)	20mA	1A Fuse
				Reac Containment Sump (LT-RS251B)	20mA	1A Fuse
				Containment Dew Point 1 (MT-1M200-6)	10mA	Bussman AGC 1/2A
				Containment Vacuum (TE-CV201A-1)	300mA	1A Little Fuse Submin. Type 275001
				Containment Vacuum (TE-CV201A-2)	300mA	1A Little Fuse Submin. Type 275001
				Containment Vacuum (TE-CV201A-3)	300mA	1A Little Fuse Submin. Type 275001
				RHR PP A Mtr Stator (TE-RH200A)	10mA	Bussman AGC 1/2A
				RHR PP B Mtr Stator (TE-RH200B)	10mA	Bussman AGC 1/2A
18E-2	IA	16 AWG	10.5A	1 Hot Leg DP (PT-2961)	80mA	100mA Fuse
				Stm Gen Sup Htr Loop B (TE-AM210B-1)	300mA	1A Little Fuse Submin. Type 275001
				Stm Gen Sup Htr Loop B (TE-AM211B-1)	300mA	1A Little Fuse Submin. Type 275001
				Stm Gen Sup Htr Loop C (TE-AM210C-1)	300mA	1A Little Fuse Submin. Type 275001
				Stm Gen Sup Htr Loop C (TE-AM211C-1)	300mA	1A Little Fuse Submin. Type 275001
				RCS Flow Loop 3 (FT-2436)	40mA	1A Little Fuse Submin. Type 275001
				Accum TK 3 Press (PT-2931)	40mA	1A Little Fuse Submin. Type 275001
				SG 3 NAR RGE LEV (LT-2496)	40mA	1A Little Fuse Submin. Type 275001
				RCS Flow Loop 1 (FT-2416)	40mA	1A Little Fuse Submin. Type 275001
				Accum TK 1 Press (PT-2923)	40mA	1A Little Fuse Submin. Type 275001
				SG 3 Steam Flow (FT-2494)	40mA	1A Little Fuse Submin. Type 275001

Penetration						
<u>Position</u>	<u>Type</u>	<u>Conductor</u>	<u>Continuous Rating</u>	<u>Load</u>	<u>Max Available Fault Current</u>	<u>Protection Device</u>
				SG 2 Steam Flow (FT-2484)	40mA	1A Little Fuse Submin. Type 275001
				SG 1 Steam Flow (FT-2474)	40mA	1A Little Fuse Submin. Type 275001
				Loop 3 Cld Leg SI (FT-2963)	80mA	100mA Fuse
				PRZR Lev (LT-2461)	40mA	1A Little Fuse Submin. Type 275001
				Pressurizer Press (PT-2457)	40mA	1A Little Fuse Submin. Type 275001
				RCS Flow Loop 2 (FT-2426)	40mA	1A Little Fuse Submin. Type 275001
				Loop 2 Cld Leg SI (FT-2962)	80mA	100mA Fuse
				Accum Tk 2 Press (PT-2927)	40mA	1A Little Fuse Submin. Type 275001
				SG 1 NAR RGE LEV DP (LT-2476)	40mA	1A Little Fuse Submin. Type 275001
				SG 2 NAR RGE LEV DP (LT-2486)	40mA	1A Little Fuse Submin. Type 275001
				Accum Tk 1 Lev (LT-2922)	40mA	1A Little Fuse Submin. Type 275001
				Accum Tk 2 Lev (LT-2926)	40mA	1A Little Fuse Submin. Type 275001
				Accum Tk 3 Lev (LT-2930)	40mA	1A Little Fuse Submin. Type 275001
				Recirc Spray PPA (PT-R3252A)	40mA	1A Little Fuse Submin. Type 275001
19D-2	IB	14 AWG	12A	Air Operated Damper (HV-257B)	4A	Fusetron FNM-10
				Air Operated Damper (HV-257C)	4A	Fusetron FNM-10
20B-2	IA	16 AWG	10.5A	5 Path Rot Trans SW for ASS D (IPRT-5D-2)		2A Little Fuse Type 313002*
				10 Path Rot Trans SW for ASS D (PRT-10D-2)	5A	2A Little Fuse Type 313002

\*Proposed secondary protection: Chase-Shawmut OT-6

Penetration						
Position	Type	Conductor	Continuous Rating	Load	Max Available Fault Current	Protection Device
				Drive Assembly "D"		Little Fuse 5A (313005)
				Drive Assembly "D"	250mA	2A Little Fuse Type 313002*
				5 Path Rot Trans SW for ASS C (PRT-5C-2)		2A Little Fuse Type 313002*
				10 Path Rot Trans SW for ASS C (PRT-10C-2)	5A	2A Little Fuse Type 313002
				Drive Assembly "C"	250mA	2A Little Fuse Type 313002
				Drive Assembly "C"		Little Fuse 5A (313005)*
200-2	IA	16 AWG	10.5A	Whittaker Ref. JB-1 (Typical)	10mA	Not Fused 15mV D-C
				Drive Assembly "E"	250mA	2A Little Fuse Type 313002
20B-2	IA	16 AWG	10.5A	Drive Assembly "D"	250mA	2A Little Fuse Type 313002
				Drive Assembly "E"	250mA	2A Little Fuse Type 313002
				Drive Assembly "A"	250mA	2A Little Fuse Type 313002
				Drive Assembly "B"	250mA	2A Little Fuse Type 313002
				Drive Assembly "C"	250mA	2A Little Fuse Type 313002
				Containment Air 10 (TE-LM200-10)	10mA	Bussman AGC 1/2A
				Containment Air 12 (TE-LM200-12)	10mA	Bussman AGC 1/2A
				Containment Air 13 (TE-LM200-13)	10mA	Bussman AGC 1/2A
				Containment Air 15 (TE-LM200-15)	10mA	Bussman AGC 1/2A
				Containment Air 16 (TE-LM200-16)	10mA	Bussman AGC 1/2A
				Containment Air 17 (TE-LM200-17)	10mA	Bussman AGC 1/2A
				Containment Air 3 (TE-LM200-3)	10mA	Bussman AGC 1/2A
				Containment Air 4 (TE-LM200-4)	10mA	Bussman AGC 1/2A
				Containment Air 7 (TE-LM200-7)	10mA	Bussman AGC 1/2A
				Containment Air 8 (TE-LM200-8)	10mA	Bussman AGC 1/2A

\*Proposed secondary protection: Chase-Shawmut OT-6

<u>Penetration</u>						
<u>Position</u>	<u>Type</u>	<u>Conductor</u>	<u>Continuous Rating</u>	<u>Load</u>	<u>Max Available Fault Current</u>	<u>Protection Device</u>
				Containment Air 9 (TE-1M200-9)	10mA	Bussman AGC 1/2A
				Loop 1 RCP Bearing Temp (TE-2131)	10mA	Bussman AGC 1/2A
				Seal Wtr Return (TE-2132)	10mA	Bussman AGC 1/2A
				Radiation Vent PLG LDOFF (TE-2401)	300mA	1A Little Fuse Submin. Type 275001
				Loop 1 RCP Up Thrust BRG (TE-2417A)	10mA	Bussman AGC 1/2A
				Loop 1 RCP Lwr Thrust BRG (TE-2417B)	10mA	Bussman AGC 1/2A
				Loop 1 RCP Up Guide BRG (TE-2418A)	10mA	Bussman AGC 1/2A
				Loop 1 RCP Stator Winding (TE-2418B)	10mA	Bussman AGC 1/2A
				Loop 1 RCP Lwr Guide BRG (TE-2419)	300mA	1A Little Fuse Submin. Type 275001
				Pressurizer Spray Line (TE-2451)	300mA	1A Little Fuse Submin. Type 275001
20E-2	1A	16 AWG	10.5A	RCP 1 LB LO Cool (FT-CC215A)	40mA	1A Little Fuse Submin. Type 275001
				RCP 3 LB LO Cool (FT-CC215C)	40mA	1A Little Fuse Submin. Type 275001
				RCP 1 Seal Lk-Off (FT-2156A)	40mA	1A Little Fuse Submin. Type 275001
				RCP 1 Seal Lk-Off (FT-2156B)	40mA	1A Little Fuse Submin. Type 275001
				RCP 3 Seal DP (FT-2154)	40mA	1A Little Fuse Submin. Type 275001
				SG 3 WD RGE LEV (LT-2497)	40mA	1A Little Fuse Submin. Type 275001
				Resid HX by Pass (FT-2605)	40mA	1A Little Fuse Submin. Type 275001
				RC PP STAT Clr (FT-CC214C)	40mA	1A Little Fuse Submin. Type 275001

Penetration			Continuous Rating	Load	Max Available Fault Current	Protection Device
Position	Type	Conductor				
				RHR Exch Outlet (HCV-2758)	20.lmA	1/2 AMP Fuse
				RHR HX Outlet (HCV-2142)	20.lmA	1/2 AMP Fuse
				RCP 3 UBLO Clr Out (FT-CC212C)	40mA	1A Little Fuse Submin. Type 275001
				RCP 3 Stat Clr (FT-CC213C)	40mA	1A Little Fuse Submin. Type 275001
				RCP 3 Seal Lk-Off (PT-2154A)	40mA	1A Little Fuse Submin. Type 275001
				RCP 3 Seal Lk-Off (PT-2154B)	40mA	1A Little Fuse Submin. Type 275001
				SG 1 WD RGE LEV (LT-2477)	40mA	1A Little Fuse Submin. Type 275001
				RCP 1 Stat Clr (FT-CC213A)	40mA	1A Little Fuse Submin. Type 275001
				RCP 1 VBLO Clr Out (FT-CC212A)	40mA	1A Little Fuse Submin. Type 275001
				RCP 1 Stat Clr (FT-CC214A)	40mA	1A Little Fuse Submin. Type 275001
				EXC Letdown HX (PT-2138)	40mA	1A Little Fuse Submin. Type 275001
				EXC Letdown HX (HCV-2137)	40mA	1/2 AMP Fuse
				PKZR Press Cont (PT-2445)	40mA	1A Little Fuse Submin. Type 275001
				Primary Drain Trans Tk Level (LT-DG201)	40mA	1A Little Fuse Submin. Type 275001
				Press to Relief Tk (MOV-2535)	936mA	Breaker GE TE-15A
				Loop 3 Seal Diff (PI-2154B)	40mA	1A Little Fuse Submin. Type 275001
				Loop 1 Seal Diff (PI-2156B)	40mA	1A Little Fuse Submin. Type 275001
				RCP 1 Seal DP (PT-2156)	40mA	1A Little Fuse Submin. Type 275001



<u>Penetration</u>			<u>Continuous</u>	<u>Load</u>	<u>Max Available</u>	<u>Protection Device</u>
<u>Position</u>	<u>Type</u>	<u>Conductor</u>	<u>Rating</u>		<u>Fault Current</u>	
8E-2	IV	Copper- Constantan		St Gen Support Loop C (TE-AM209C-2)	.025mA	Breaker GE TE-15A
				St Gen Support Loop C (TE-AM209C-1)	.025mA	Breaker GE TE-15A
				St Gen Support Loop B (TE-AM209B-2)	.025mA	Breaker GE TE-15A
				St Gen Support Loop B (TE-AM209B-1)	.025mA	Breaker GE TE-15A
				St Gen Support Loop A (TE-AM209A-2)	.025mA	Breaker GE TE-15A
				St Gen Support Loop A (TE-AM209A-1)	.025mA	Breaker GE TE-15A