Equipment ID	Individual Component ID	Description	PC 4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
P11		Annunciator Panel, RCR Panel P11				
Unnumbered	Unnumbered 45	Reactor console	X			Inadequate anchorage.
Electrical Power Supply						
670-M-42 & 670-M-43		Enterprise Diesels	X			Lube oil lines cannot accommodate lateral displacement.
674-E-1		ATR-674 C/D 480V ac Bus	X			Inadequate anchorage. Poorly anchored adjacent equipment.
674-E-2		ATR-674 Transformer	X			Inadequate anchorage. Poorly anchored adjacent equipment.
674-E-3		ATR-674 C/D 120/208 V Bus	X			Inadequate anchorage.
674-E-5		Emergency Generator Feeder Breaker	X			Inadequate anchorage. Poorly anchored adjacent equipment.
674-M-10		Diesel Generator Starting Air Tank				
674-M-20		Lube Oil Reservoir				
674-M-6 Attached Cooling Pump		Attached Cooling Pump for 674-M-6		X	674-M-6	
674-M-6 Oil Cooler		Injector Fuel Oil Cooler Fan for 674-M-6		X	674-M-6	
674-M-8		Radiator Fan for DG M-6	X			Inadequate anchorage.
674-M-9		DG M-6 Day Tank				
674-M-9CK-12-24		Valve between Tank ATR-776 and Day Tank	X	X	ATR-776	Reference Parent Component
Air Intake Damper		DG M-6 Air Intake Damper				
ATR-776		Fuel Oil Transfer Tank	X			Unable to access, but prior documentation indicates that tank is not anchored.
CK-H-14-60		Check valve for 674-M-10		X	674-M-10	
Day Tank FO Pump		Day Tank FO Transfer Pump		X	674-M-9	
DG M-6 Engine Driven FO Pump		DG M-6 Engine Driven FO Pump		X	674-M-6	
SF-C-14-54		Safety Relief valve for 674-M-10		X	674-M-10	
1 (E14A, B, C, D)	1 E14A	Breakers to Battery Banks E11A, B, C, D		X	E14A	
	1 E14B			X	E14B	
	1 E14C		X	X	E14C	Reference Parent Component

Equipment ID	Individual Component ID	Description	PC 4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
	1 E14D		X	X	E14D	Reference Parent Component
1 (670-E-106)		Breaker, Receptacle Rack 6	X	X	670-E-106	Reference Parent Component
1 (670-E-30)		Breaker, Receptacle 2 and 4	X	X	670-E-30	Reference Parent Component
1 (670-E-46)		Breaker, Lights, Outer SRD Service		X	670-E-46	
1 (670-E-67)		Breaker, Lighting LP-2B		X	670-E-67	
10 (E14A, C)	10 E14A	Breakers to Firewater Injection Cabinet C31A		X	E14A	
	10 E14C		X	X	E14C	Reference Parent Component
10 (670-E-106)		Breaker, Receptacle	X	X	670-E-106	Reference Parent Component
10 (670-E-2)		Breaker, Primary Coolant Pump 670-M-7 (ESF)	X	X	670-E-2	Reference Parent Component
10 (670-E-30)		Breaker, Floor receptacle 10	X	X	670-E-30	Reference Parent Component
10 (670-E-67)		Breaker, Rod Repair Room		X	670-E-67	
11 (670-E-106)		Breaker, Receptacle	X	X	670-E-106	Reference Parent Component
11 (670-E-30)		Breaker, Floor receptacle 11 and DAC STALL	X	X	670-E-30	Reference Parent Component
12 (670-E-106)		Breaker to transfer SW TS-16-67	X	X	670-E-106	Reference Parent Component
12 (670-E-30)		Breaker, Floor receptacle 12	X	X	670-E-30	Reference Parent Component
13 (670-E-106)		Breaker, STALL ALARM POWER	X	X	670-E-106	Reference Parent Component
17 (670-E-3)		Breaker, Commercial/Diesel Bus Tie to 670-E-2	X	X	670-E-3	Reference Parent Component
17 (670-E-106)		Breaker, Host Computer No. 1 & Disk Dr. No. 1	X	X	670-E-106	Reference Parent Component
17 (670-E-30)		Breaker, Host Computer No. 2	X	X	670-E-30	Reference Parent Component
18 (670-E-3)		Breaker, Diesel Generator 670-M-42	X	X	670-E-3	Reference Parent Component
18 (670-E-106)		Breaker, SATS and PCR Outlets	X	X	670-E-106	Reference Parent Component
18 (670-E-30)		Breaker, Disk Drive No. 2	X	X	670-E-30	Reference Parent Component
19 (670-E-106)		Breaker, Comp. Rack 1	X	X	670-E-106	Reference Parent Component
1C (670-E-15)		Breaker, Transformer for 670-E-67 Distribution Panel	X	X	670-E-15	Reference Parent Component
1H (670-E-15)		Breaker, Transformer for 670-E-71 Distribution Panel	X	X	670-E-15	Reference Parent Component
1M (670-E-15)		Breaker, Experiment Power Panels	X	X	670-E-15	Reference Parent Component
1R (670-E-15)		Breaker, RDAS Air conditioner HV-173	X	X	670-E-15	Reference Parent Component

Equipment ID	Individual Component ID	Description	PC 4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
2 (670-E-30)		Breaker, RDAS Transfer Switch	X	X	670-E-30	Reference Parent Component
2 (E14A, B, C, D)	2 E14A	Breakers to Logic Cabinet L31A, B, C, D		X	E14A	
	2 E14B			X	E14B	
	2 E14C		X	X	E14C	Reference Parent Component
	2 E14D		X	X	E14D	Reference Parent Component
2 (670-E-46)		Breaker, PPS Relay Cabinet E311A		X	670-E-46	
2 (670-E-67)		Breaker, Lighting LP-10		X	670-E-67	
20 (670-E-106)		Breaker, Receptacle Rack 2	X	X	670-E-106	Reference Parent Component
21 (670-E-106)		Breaker, Receptacle Rack 1	X	X	670-E-106	Reference Parent Component
21 (670-E-3)		Breaker, Diesel Generator 670-M-43	X	X	670-E-3	Reference Parent Component
22 (670-E-3)		Breaker, Utility Coolant Pump 671-M-5	X	X	670-E-3	Reference Parent Component
23 (670-E-3)		Breaker, Utility Coolant Pump 671-M-6	X	X	670-E-3	Reference Parent Component
24 (670-E-3)		Breaker, Transformer 670-E-8	X	X	670-E-3	Reference Parent Component
25 (670-E-3)		Breaker, Diesel Generator 674-M-6	X	X	670-E-3	Reference Parent Component
2A (670-E-15)		Breaker, Transformer for 670-E-69 Distribution Panel	X	X	670-E-15	Reference Parent Component
2F (670-E-15)		Breaker, Transformer for 670-E-73 Distribution Panel	X	X	670-E-15	Reference Parent Component
2K (670-E-15)		Breaker, Primary Emergency Coolant Pump 670-M-10	X	X	670-E-15	Reference Parent Component
2Q (670-E-15)		Breaker, Reactor Control Drives	X	X	670-E-15	Reference Parent Component
3 (670-E-1)		Breaker, Primary Coolant Pump 670-M-8 (ESF)	X	X	670-E-1	Reference Parent Component
3 (E14A, B, C, D)	3 E14A	Breakers to Logic Cabinet L31A, B, C, D		X	E14A	
	3 E14B			X	E14B	
	3 E14C		X	X	E14C	Reference Parent Component
	3 E14D		X	X	E14D	Reference Parent Component
3 (670-E-106)		Breaker, Receptacle Rack 3	X	X	670-E-106	Reference Parent Component
3 (670-E-30)		Breaker, Floor Receptacle 2 and 4	X	X	670-E-30	Reference Parent Component
3 (670-E-46)		Breaker, Receptacle, CAM-15		X	670-E-46	
3 (670-E-67)		Breaker, Lighting LP-8		X	670-E-67	

Equipment ID	Individual Component ID	Description	PC 4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
3A (670-E-15)		Breaker, M-42 Diesel Auxiliary Jacket water pump 670-M-60	X	X	670-E-15	Reference Parent Component
3E (670-E-15)		Breaker, M-43 Diesel Auxiliary Jacket water pump 670-M-61	X	X	670-E-15	Reference Parent Component
3I (670-E-15)		Breaker, Transformer (670-E-444) for Process DCS Distribution Panel 670-E-445	X	X	670-E-15	Reference Parent Component
3N (670-E-15)		Breaker, for Specimen Handling Cask 480 V receptacle	X	X	670-E-15	Reference Parent Component
4 (670-E-1)		Breaker, Primary Coolant Pump 670-M-9 (ESF)	X	X	670-E-1	Reference Parent Component
4 (670-E-30)		Breaker, SATS DPM-50 and PCR	X	X	670-E-30	Reference Parent Component
4 (E14A, B, C, D)	4 E14A	Breakers to Comparator Cabinets C31A, B, C, D		X	E14A	
	4 E14B			X	E14B	
	4 E14C		X	X	E14C	Reference Parent Component
	4 E14D		X	X	E14D	Reference Parent Component
4 (670-E-106)		Breaker, Receptacle Rack 4	X	X	670-E-106	Reference Parent Component
4 (670-E-46)		Breaker, Lights		X	670-E-46	
4 (670-E-67)		Breaker, Lighting LP-5		X	670-E-67	
4A (670-E-15)		Breaker, M-42 Diesel Standby Lube Oil Pump 670-M-48	X	X	670-E-15	Reference Parent Component
4E (670-E-15)		Breaker, M-43 Diesel Standby Lube Oil Pump 670-M-49	X	X	670-E-15	Reference Parent Component
4I (670-E-15)		Breaker, Recirculating Pump (NR Loop) NRMUS	X	X	670-E-15	Reference Parent Component
5 (E14A, B, C, D)	5 E14A	Breakers to Comparator Cabinets C31A, B, C, D		X	E14A	
	5 E14B			X	E14B	
	5 E14C		X	X	E14C	Reference Parent Component
	5 E14D		X	X	E14D	Reference Parent Component
5 (670-E-106)		Breaker, Receptacle Rack 4	X	X	670-E-106	Reference Parent Component
5 (670-E-30)		Breaker, Floor Receptacle 6	X	X	670-E-30	Reference Parent Component
5 (670-E-46)		Breaker, Diesel M-42/M-43 Inst. Panels		X	670-E-46	
5 (670-E-67)		Breaker, Cask Service		X	670-E-67	
5A (670-E-15)		Breaker, PPS Channel A 32 Vdc Power System	X	X	670-E-15	Reference Parent Component
5F (670-E-15)		Breaker, Warm Seal Water Booster Pump 670-M-82	X	X	670-E-15	Reference Parent Component

Equipment ID	Individual Component ID	Description	PC 4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
5L (670-E-15)		Breaker, AHTL UPS 1C-E-63	X	X	670-E-15	Reference Parent Component
6 (E14A, B, C, D)	6 E14A	Breakers to Comparator Cabinets C31A, B, C, D		X	E14A	
	6 E14B			X	E14B	
	6 E14C		X	X	E14C	Reference Parent Component
	6 E14D		X	X	E14D	Reference Parent Component
6 (670-E-106)		Breaker, Receptacle Rack 5	X	X	670-E-106	Reference Parent Component
6 (670-E-46)		Breaker, Lights		X	670-E-46	
6 (670-E-67)		Breaker, HVA-6, SATS, PPS A/C		X	670-E-67	
670-E-1		Commercial Bus A	X			Contains low capacity relay. Inadequate anchorage.
670-E-103		ATR Battery Backed Power Systems Graphic Panel				
670-E-104		Instrument UPS				
670-E-104-CB1		Breaker, comm-diesel bus 670-E-5 to panel 670-E-104		X	670-E-104	
670-E-104-CB2		Breaker, panel 670-E-104 inverter		X	670-E-104	
670-E-104-CB3		Breaker, crosstie to utility DC power		X	670-E-104	
670-E-104-CB4		Breaker, panel 670-E-104 to panel 670-E-117		X	670-E-104	
670-E-104-CB5		Breaker, crosstie to utility DC power		X	670-E-104	
670-E-106		Distribution Panel, RDAS Power (DAN)	X			Block wall is inadequate.
670-E-115		Distribution panel, Utility UPS				
670-E-115-CB1		Breaker, 24 V Power Supply 674 Diesel M-6		X	670-E-115	
670-E-115-CB11		Breaker, ATR Canal Emergency Firewater Makeup Control Panel 670-E-510		X	670-E-115	
670-E-115-CB15		Breaker, 120/208 V to vessel vent system		X	670-E-115	
670-E-115-CB16		Breaker, 120/208 V to SPING stack gas monitor		X	670-E-115	
670-E-115-CB17		Breaker, ATR Page System		X	670-E-115	
670-E-115-CB3		Breaker, 120/208V to RDAS room 110 panel 670-E-30		X	670-E-115	

Equipment ID	Individual Component ID	Description	PC 4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
670-E-115-CB5		Breaker, shunt trip for 670-E-115 CB3		X	670-E-115	
670-E-115-CB6		Breaker, frequency voltage monitor junction box		X	670-E-115	
670-E-115-CB8		Breaker, Diesel Generator Control Panel 670-E-119 M42 Power supply PS1		X	670-E-115	
670-E-115-CB9		Breaker, Manual transfer switch 670-E-457		X	670-E-115	
670-E-115-MAIN		Breaker, panel 670-E-115		X	670-E-115	
670-E-116		Utility UPS				
670-E-116-CB1		Breaker, Commercial bus 670-E-7 to Panel 670-E-116		X	670-E-116	
670-E-116-CB2		Breaker, panel 670-E-116 inverter		X	670-E-116	
670-E-116-CB3		Breaker, crosstie to diesel bus power		X	670-E-116	
670-E-116-CB4		Breaker, panel 670-E-116 to panel 670-E-115		X	670-E-116	
670-E-116-CB5		Breaker, crosstie to diesel bus power		X	670-E-116	
670-E-117		Distribution panel, instrument UPS	X			Inadequate anchorage.
670-E-117-CB1		Breaker, Process DCS Dist Panel 670-E-446	X	X	670-E-117	Reference Parent Component
670-E-117-CB10		Breaker, No. 1 regulating rod control panel	X	X	670-E-117	Reference Parent Component
670-E-117-CB11		Breaker, 24 V Power Supply 674 Diesel	X	X	670-E-117	Reference Parent Component
670-E-117-CB12		Breaker, DRMS UPS Panel 670-E-428	X	X	670-E-117	Reference Parent Component
670-E-117-CB3		Breaker, Manual transfer switch 670-E-457	X	X	670-E-117	Reference Parent Component
670-E-117-CB5		Breaker, 120/208 V to RDAS room 111 panel 670-E-106	X	X	670-E-117	Reference Parent Component
670-E-117-CB7		Breaker, frequency voltage monitor junction box	X	X	670-E-117	Reference Parent Component
670-E-117-CB8		Breaker, M42 Diesel Governor Power Supply B	X	X	670-E-117	Reference Parent Component

Equipment ID	Individual Component ID	Description	EQ 4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
670-E-117-CB9		Breaker, No. 2 regulating rod control panel	X	X	670-E-117	Reference Parent Component
670-E-117-MAIN		Breaker, panel 670-E-117	X	X	670-E-117	Reference Parent Component
670-E-15		Motor Control Center, Diesel Commercial	X			Inadequate anchorage.
670-E-2		Commercial Bus B	X			Contains low capacity relay. Inadequate anchorage.
670-E-23		Bus, 250 Vdc utility power control center				
670-E-23-CB1		Breaker, battery bank 670-E-58		X	670-E-23	
670-E-23-CB2		Breaker, emergency primary coolant pump, 670-M-11		X	670-E-23	
670-E-23-CB3		Breaker, DC power to bus 670-E-23 (MTS-1)		X	670-E-23	
670-E-23-CB5		Breaker, battery charger 670-E-105		X	670-E-23	
670-E-26		Bus, 250 Vdc instrument power control center	X			Inadequate anchorage.
670-E-26-CB1		Breaker, battery bank 670-E-59	X	X	670-E-26	Reference Parent Component
670-E-26-CB2		Breaker, battery charger 670-E-105	X	X	670-E-26	Reference Parent Component
670-E-26-CB3		Breaker, rod strap drive power	X	X	670-E-26	Reference Parent Component
670-E-26-CB4		Breaker, DC power to bus 670-E-23 (MTS-1)	X	X	670-E-26	Reference Parent Component
670-E-28		Utility DC PCC 250V				
670-E-3		Diesel Bus, 4160 V	X			Inadequate anchorage.
670-E-30		Distribution Panel, RDAS Backup (DAC)	X			Door latch broken. Block wall is inadequate. Adjacent unanchored equipment.
670-E-4		4160 V to 480 V Transformer Feed to 480 V Commercial Bus A 670-E-5	X			Inadequate anchorage. Adjacent component inadequately anchored.
670-E-456		Power panel, Utility/Instrument UPS Power panel	X			Anchorage adequacy of adjacent component indeterminate.
670-E-459		Bus, 250 V Switchgear control power				
670-E-46		Distribution Panel, Diesel/Commercial				

Equipment ID	Individual Component ID	Description	PC 4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
670-E-5		Commercial Bus A	X			Inadequate anchorage.
670-E-58		Battery bank, utility UPS	X			Adjacent component inadequately anchored. Wall requires strengthening.
670-E-59		Battery bank, instrument UPS	X			Wall requires strengthening.
670-E-6		4160 V to 480 V Transformer Feed to Commercial Bus B 670-E-7	X			Inadequate anchorage.
670-E-67		Distribution Panel, Diesel/Commercial				
670-E-7		Commercial Bus B	X			Inadequate anchorage.
670-E-8		4160 V to 480 V Transformer Feed to 480 V Diesel Bus 670-E-9	X			Inadequate anchorage. Adjacent component inadequately anchored.
670-E-9		Diesel Bus, 480 V	X			Inadequate anchorage. Adjacent component inadequately anchored.
670-IP1		Instrument power channel #1 power distribution panel	X			Block wall that panel is mounted on is both inadequate in strength and an interaction source.
670-IP1-1		Breaker, voltage & freq. sensors & battery backed graphic	X	X	670-IP1	Reference Parent Component
670-IP1-10		Breaker, N-16 system and recorders	X	X	670-IP1	Reference Parent Component
670-IP1-11		Breaker, safety rod position indicators	X	X	670-IP1	Reference Parent Component
670-IP1-13		Breaker, process instruments quad 1 and WPC #1	X	X	670-IP1	Reference Parent Component
670-IP1-14		Breaker, process instruments quad 2	X	X	670-IP1	Reference Parent Component
670-IP1-15		Breaker, indicating lights panel R-1 and R-2	X	X	670-IP1	Reference Parent Component
670-IP1-17		Breaker, sequence of events recorder no. 2	X	X	670-IP1	Reference Parent Component
670-IP1-2		Breaker, x and y bus loop	X	X	670-IP1	Reference Parent Component
670-IP1-3		Breaker, 27 MA and MB relays	X	X	670-IP1	Reference Parent Component
670-IP1-4		Breaker, LCRM channel 2	X	X	670-IP1	Reference Parent Component
670-IP1-5		Breaker, log N channel 4	X	X	670-IP1	Reference Parent Component

Equipment ID	Individual Component ID	Description	PC 4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
670-IP1-6		Breaker, level channels A and C recorders	X	X	670-IP1	Reference Parent Component
670-IP1-7		Breaker, PPS panel P-11 and annunciators	X	X	670-IP1	Reference Parent Component
670-IP1-8		Breaker, intercom	X	X	670-IP1	Reference Parent Component
670-IP2		Instrument power channel #2 power distribution panel	X			Block wall that panel is mounted on is both inadequate in strength and an interaction source.
670-IP2-1		Breaker, voltage and frequency sensors	X	X	670-IP2	Reference Parent Component
670-IP2-10		Breaker, process instruments quad 4	X	X	670-IP2	Reference Parent Component
670-IP2-11		Breaker, inlet and outlet instruments	X	X	670-IP2	Reference Parent Component
670-IP2-13		Breaker, HP panel FP-2	X	X	670-IP2	Reference Parent Component
670-IP2-14		Breaker, sequence of events recorder	X	X	670-IP2	Reference Parent Component
670-IP2-15		Breaker, 2KVA transformer T-2	X	X	670-IP2	Reference Parent Component
670-IP2-2		Breaker, LCRM channel 2 & fission break A, B, C, recorders	X	X	670-IP2	Reference Parent Component
670-IP2-3		Breaker, regulating rod recorder and startup horn	X	X	670-IP2	Reference Parent Component
670-IP2-4		Breaker, log N ch. 5, RX pd. 5, & reg rod no. 2 record & indic.	X	X	670-IP2	Reference Parent Component
670-IP2-5		Breaker, level 8 and channel B recorders	X	X	670-IP2	Reference Parent Component
670-IP2-6		Breaker, ESF relay panel E311D	X	X	670-IP2	Reference Parent Component
670-IP2-7		Breaker, outer shim position indicators	X	X	670-IP2	Reference Parent Component
670-IP2-8		Breaker, fission break check source power supplies	X	X	670-IP2	Reference Parent Component
670-IP2-9		Breaker, process instruments quad 3 and WPC #2	X	X	670-IP2	Reference Parent Component
674-M-6		Diesel Generator				
6A (670-E-15)		Breaker, Building 674 Motor Control Center 674-E-1	X	X	670-E-15	Reference Parent Component

Equipment ID	Individual Component ID	Description	PC 4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
6A (670-E-46)		Breaker, ATR Canal Emergency Firewater Makeup Control Panel 670-E-510		X	670-E-46	
6B (670-E-46)		Breaker, Hydrogen Detectors		X	670-E-46	
6C (670-E-46)		Breaker, PPS-E-314 Rod Strap Cabinet		X	670-E-46	
6D (670-E-46)		Breaker, Plant Digital Clock		X	670-E-46	
6E (670-E-46)		Breaker, Mobile CAM		X	670-E-46	
6F (670-E-15)		Breaker, Warm Seal Water Booster Pump 670-M-83	X	X	670-E-15	Reference Parent Component
6F (670-E-46)		Breaker, CAM 26		X	670-E-46	
6G (670-E-46)		Breaker, Mobile CAM		X	670-E-46	
6H (670-E-46)		Breaker, Mobile CAM 24		X	670-E-46	
6L (670-E-15)		Breaker, Heat Exchanger Sump Pump 670-M-100	X	X	670-E-15	Reference Parent Component
7 (E14A, B, C, D)	7 E14A	Breakers to Comparator Cabinets C31A, B, C, D		X	E14A	
	7 E14B			X	E14B	
	7 E14C		X	X	E14C	Reference Parent Component
	7 E14D		X	X	E14D	Reference Parent Component
7 (670-E-30)		Breaker, Floor Receptacle 7	X	X	670-E-30	Reference Parent Component
8 (E14A, B, C, D)	8 E14A	Breakers to Emerg. Flow Recirculating Pump Cabinets E310A, B, C, D		X	E14A	
	8 E14B			X	E14B	
	8 E14C		X	X	E14C	Reference Parent Component
	8 E14D		X	X	E14D	Reference Parent Component
8 (670-E-106)		Breaker, Receptacle	X	X	670-E-106	Reference Parent Component
8 (670-E-30)		Breaker, Floor Receptacle 8	X	X	670-E-30	Reference Parent Component
8 (670-E-67)		Breaker, Cubicle 1B-670-E-244		X	670-E-67	
9 (670-E-2)		Breaker, Primary Coolant Pump 670-M-6 (ESF)	X	X	670-E-2	Reference Parent Component
9 (E14A, D)	9 E14A	Breakers to ESF Relay Cabinets E31A, D		X	E14A	
	9 E14D		X	X	E14D	Reference Parent Component
9 (670-E-106)		Breaker, Receptacle	X	X	670-E-106	Reference Parent Component
9 (670-E-30)		Breaker, Floor Receptacle 9	X	X	670-E-30	Reference Parent Component
9 (670-E-67)		Breaker, Main		X	670-E-67	
A1 (670-E-7)		Breaker, Primary Pressurizing Pump 670-M-15 (ESF)	X	X	670-E-7	Reference Parent Component

Equipment ID	Individual Component ID	Description	PC 4 Criteria Not Satisfied	Subcom-ponent	Parent Component	Basis for Outlier
A3 (670-E-7)		Breaker, Utility UPS 670-E-116	X	X	670-E-7	Reference Parent Component
ATS 670-E-228		Automatic Transfer Switch, transfer between 670-E-7 and 670-E-9 (670-E-15 Backup power feed)	X			Inadequate anchorage.
B1 (670-E-9)		Breaker, Experiments Panel 670-E-21	X	X	670-E-9	Reference Parent Component
B2 (670-E-9)		Breaker, Experiments Panel I 670-E-21	X	X	670-E-9	Reference Parent Component
B3 (670-E-7)		Breaker, Diesel-Commercial MCC 670-E-15 through transfer switch 670-E-228	X	X	670-E-7	Reference Parent Component
B4 (670-E-9)		Breaker, Battery Charger 670-E-105	X	X	670-E-9	Reference Parent Component
C2 (670-E-9)		Breaker, Diesel MCC B 670-E-13	X	X	670-E-9	Reference Parent Component
C4 (670-E-9)		Breaker, Diesel-Commercial MCC through transfer switch 670-E-228	X	X	670-E-9	Reference Parent Component
CB 1 (670-E-456)		Breaker, Instrument Power bus No. 2	X	X	670-E-456	Reference Parent Component
CB 12 (670-E-459)		Breaker, 4160 V Commercial Switchgear A (670-E-1)		X	670-E-459	
CB 13 (670-E-459)		Breaker, 4160 V Commercial Switchgear B (670-E-2)		X	670-E-459	
CB 14 (670-E-456)		Breaker, Shim Drive Group No. 3	X	X	670-E-456	Reference Parent Component
CB 14 (670-E-459)		Breaker, 4160 V Diesel Switchgear B (670-E-3)		X	670-E-459	
CB 15 (670-E-459)		Breaker, 480 V Commercial Switchgear A (670-E-5)		X	670-E-459	
CB 16 (670-E-459)		Breaker, 480 V Commercial Switchgear B (670-E-7)		X	670-E-459	
CB 17 (670-E-459)		Breaker, 480 V Commercial Switchgear CTPH (671-E-2)		X	670-E-459	
CB 18 (670-E-459)		Breaker, 480 V Diesel Switchgear (670-E-9)		X	670-E-459	
CB 19 (670-E-459)		Breaker, 4160 V - 480 V ACB Test Cabinets		X	670-E-459	
CB 2 (670-E-456)		Breaker, Shim Drive Group No. 1	X	X	670-E-456	Reference Parent Component
CB 20 (670-E-456)		Breaker, Shim Drive Group No. 4	X	X	670-E-456	Reference Parent Component

Equipment ID	Individual Component ID	Description	PC-4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
CB 20 (670-E-459)		Breaker, 4160 V Control Power Emergency Diesel 674-E-1		X	670-E-459	
CB 3 (670-E-456)		Breaker, Instrument Power bus No. 1	X	X	670-E-456	Reference Parent Component
CB 8 (670-E-456)		Breaker, Shim Drive Group No. 2	X	X	670-E-456	Reference Parent Component
D1 (670-E-9)		Breaker, HDW Circulating Pump 670-M-35	X	X	670-E-9	Reference Parent Component
D1 (670-E-5)		Breaker, Primary Pressurizing Pump 670-M-14 (ESF)	X	X	670-E-5	Reference Parent Component
D2 (670-E-9)		Breaker, HDW Circulating Pump 670-M-36	X	X	670-E-9	Reference Parent Component
D3 (670-E-9)		Breaker, Primary Pressurizing Pump 670-M-14 (ESF)	X	X	670-E-9	Reference Parent Component
D4 (670-E-9)		Breaker, Primary Pressurizing Pump 670-M-15 (ESF)	X	X	670-E-9	Reference Parent Component
E1 (670-E-9)		Breaker, MCC 670-E-107	X	X	670-E-9	Reference Parent Component
E11A, B, C, D, Spare	E11 Spare	Battery banks, 32 Vdc PPS Channels A, B, C, D, spare Combined PPS Battery Banks	X			GERS requirements not met. Inadequate anchorage.
	E11A					
	E11B		X			Interaction from adjacent unanchored cabinet.
	E11C		X			GERS requirements not met. Inadequate anchorage.
	E11D		X			GERS requirements not met. Inadequate anchorage.
E12A, B, C, D		Transformers for PPS Channels A, B, C, D 32 Vdc power				
E13A, B, C, D	E13A	Battery Chargers for PPS Channels A, B, C, D battery banks and 32 Vdc distribution panels				
	E13B					
	E13C		X			Capacity does not bound demand. Fire concern due to insufficient flex in M42/M43 lube oil lines.
	E13D		X			Capacity does not bound demand. Fire concern due to insufficient flex in M42/M43 lube oil lines.
E14A, B, C, D	E14A	Distribution panels, 32 Vdc PPS Channel A				
	E14B					

Equipment ID	Individual Component ID	Description	P.C.4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
	E14C		X			Fire concern due to insufficient flex in M42/M43 lube oil lines.
	E14D		X			Fire concern due to insufficient flex in M42/M43 lube oil lines.
E2 (670-E-9)		Breaker, UPS Reserve Input Transformer 670-E-90	X	X	670-E-9	Reference Parent Component
E3 (670-E-9)		Breaker, Main Exhaust Fan 670-HVE-17B	X	X	670-E-9	Reference Parent Component
E4 (670-E-5)		Experiment Power Panels via ATS 670-E-345	X	X	670-E-5	Reference Parent Component
E4 (670-E-9)		Experiment Power Panels via ATS 670-E-345	X	X	670-E-9	Reference Parent Component
MTS 670-E-457		Manual transfer switch, transfer between feed from Panel 670-E-115 and 670-E-117	X			Inadequate anchorage.
MTS-1		Manual transfer switch, for transfer between 670-E-23 and 670-E-25		X	670-E-103	
Unnumbered	Unnumbered 15	Transformer #1, 10KVA isolat'n, for bus 670-IP2	X			Capacity does not bound demand.
Unnumbered	Unnumbered 41	Transformer #2, 10KVA isolat'n, for bus 670-IP1	X			Capacity does not bound demand.
Firewater System						
10-9		Line from BF-12 to W.W. header				
10-10		Line from BF-13 to W.W. Header				
10-11		Piping, loop around bldg. 670 & 771				
FH-10-658		Fire Hydrant				
FH-43		Fire Hydrant				
GB-10-425						
GT-10-14						
GT-10-2055						
GT-10-58						
GT-10-625						
GT-10-64						
L-14		Check valve				
L-15		Check valve				

Equipment ID	Individual Component ID	Description	PC 4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
L-31		BV				
688-E-5		688-M-1 Diesel Firewater Pump Controller Panel				
688-E-6		688-M-2 Diesel Firewater Pump Controller Panel				
688-M-1		Diesel Firewater Pump				
688-M-2		Diesel Firewater Pump				
688-M-6		Surge Suppression Vessel				
688-M-7		688-M-1 Diesel Fuel Tank				
688-M-8		688-M-2 Diesel Fuel Tank				
AV-10-2000		Air Release Auto Vent Valve for Firewater Pump 688-M-2		X	688-M-2	
AV-10-2001		Air Release Auto Vent Valve for Firewater Pump 688-M-1		X	688-M-1	
BF-10-2058		BV raw water to FW loop				
BF-10-2061		BV raw water to FW loop				
BF-10-2116		BV RTC to ATR FW loop				
BF-10-2117		BV RTC to ATR FW loop				
BF-10-2125		BV RTC to ATR FW loop				
BF-10-2126		BV RTC to ATR FW loop				
BF-10-641		688-M-1 Pump Discharge Isolation				
BF-10-642		688-M-2 Pump Discharge Isolation				
BF-10-643		688-M-1 Pump Recirculation Isolation				
BF-10-644		688-M-2 Pump Recirculation Isolation				
BF-10-653		TRA-688 Sprinkler Isolation				
BF-12		BV FW loop				
BF-13		BV FW loop				
BL-10-2002		688-M-6 Surge Suppressor Tank Drain Valve				
BL-10-2120		BV CK-10-2118 bypass				
BL-10-2121		BV CK-10-2119 supply test				
BL-10-2122		BV CK-10-2119 bypass				
BL-10-2123		BV CK-10-2119 test isolation				

Equipment ID	Individual Component ID	Description	EC 4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
BL-10-2124		BV test header outlet				
BL-10-2129		BV CK-10-2118 bypass				
BL-10-2130		BV CK-10-2119 supply test				
BL-10-2131		BV CK-10-2119 bypass				
BL-10-2132		BV CK-10-2119 test isolation				
BL-10-2133		BV test header outlet				
BL-10-627		LI-10-100 Isolation		X	LI-10-100	
BL-10-628		LI-10-100 Calibration		X	LI-10-100	
BL-10-631		PI-10-93 Isolation		X	688-M-1	
BL-10-632		PI-10-94 Isolation		X	688-M-2	
BL-10-633		PI-10-95 Isolation		X	688-M-1	
BL-10-634		PI-10-96 Isolation		X	688-M-2	
BL-10-635		688-M-1 Cooling Water Return Isolation				
BL-10-636		688-M-2 Cooling Water Return Isolation				
BL-10-661		Heating System Inlet Isolation				
BL-10-668		Heating System Return Isolation				
BL-10-892		688-M-2 FW Pump Control Panel Isolation				
BL-10-893		688-M-1 FW Pump Control Panel Isolation				
BL-10-898		688-M-2 FW Pump Control Panel Drain Valve				
BL-10-899		688-M-1 FW Pump Control Panel Drain Valve				
BL-10-900		688-M-2 FW Pump Control Panel Drain Valve				
BL-10-901		688-M-1 FW Pump Control Panel Drain Valve				
BL-10-903		688-M-1 Cooling Water Inlet Isolation Valve		X	688-M-1	
BL-10-904		688-M-2 Cooling Water Inlet Isolation Valve		X	688-M-2	
BL-10-905		688-M-1 Cooling Water Bypass Inlet		X	688-M-1	
BL-10-906		688-M-2 Cooling Water Bypass Inlet		X	688-M-2	

Equipment ID	Individual Component ID	Description	PC-4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
BL-10-917		688-M-1 Cooling Water Outlet Isolation Valve		X	688-M-1	
BL-10-918		688-M-2 Cooling Water Outlet Isolation Valve		X	688-M-2	
BL-10-919		688-M-1 Cooling Water Bypass Outlet		X	688-M-1	
BL-10-920		688-M-2 Cooling Water Bypass Outlet		X	688-M-2	
BL-10-948		688-M-2 FW Pump Control Panel Drain Valve				
BL-10-949		688-M-1 FW Pump Control Panel Drain Valve				
BL-10-950		688-M-2 FW Pump Control Panel Drain Valve				
BL-10-951		688-M-1 FW Pump Control Panel Drain Valve				
BL-12-49		Fuel Tank 688-M-7 Discharge		X	688-M-7	
BL-12-50		Fuel Tank 688-M-8 Discharge		X	688-M-8	
BL-12-51		Engine 688-M-1 Supply		X	688-M-1	
BL-12-52		Engine 688-M-2 Supply		X	688-M-2	
BL-1-623		Upper Vessel EFIS Supply Drain	X			Capacity does not bound demand.
CK-10-2059		Check valve raw water to FW loop				
CK-10-2060		Check valve raw water to FW loop				
CK-10-2062		Check valve raw water to FW loop				
CK-10-2063		Check valve raw water to FW loop				
CK-10-2118		Check valve RTC to ATR FW loop				
CK-10-2119		Check valve RTC to ATR FW loop				
CK-10-2127		Check valve RTC to ATR FW loop				
CK-10-2128		Check valve RTC to ATR FW loop				
CK-10-639		688-M-1 Discharge Check				

Equipment ID	Individual Component ID	Description	PC-4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
CK-10-640		688-M-2 Discharge Check				
CK-10-944		688-M-2 FW Pump Control Panel Check Valve				
CK-10-945		688-M-1 FW Pump Control Panel Check Valve				
CK-10-946		688-M-2 FW Pump Control Panel Check Valve				
CK-10-947		688-M-1 FW Pump Control Panel Check Valve				
CK-FW-29		Check valve 633-1 discharge				
CK-FW-30		Check valve 633-1 discharge				
FE-10-90		Recirculation Flow Element				
FH-29, 30	FH-29	Fire Hydrants				
	FH-30					
FH-37		Fire Hydrant				
FI-10-90		Recirculation Flow Indicator				
FR-10-90		Recirculation Flow Recorder				
FT-10-90		Recirculation Flow Transmitter				
FW-2-CK-A, FW-2-CK-B	FW-2-CK-A	Check valve 619-12 discharge				
	FW-2-CK-B					
FW-3		Block valve, pump 619-12 outlet				
FW-5-CK-A, FW-5-CK-B	FW-5-CK-A	Check valve 619-10 discharge				
	FW-5-CK-B					
FW-6		BV 619-10 discharge				
GB-10-290		PT-10-6 Secondary Isolation Valve				
GB-10-291		PT-10-6 Vent Valve				
GB-10-648		TRA-688 Recirculation Isolation				
GB-10-811		PI-10-122 Secondary Isolation Valve	X			Capacity does not bound demand.
GB-10-813		PS-1-110 Secondary Isolation Valve	X			Capacity does not bound demand.
GB-10-814		PS-1-110 Vent Valve	X			Capacity does not bound demand.
GB-10-815		PS-1-110 & PI-10-122 Isolation Valve	X			Capacity does not bound demand.
GB-10-816, GB-10-817	GB-10-816	PI-10-123 vent/drain, isolation				

Equipment ID	Individual Component ID	Description	PC 4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
	GB-10-817					
GT-10-18, FH-38, FH-39	FH-38	BV and Fire Hydrant				
	FH-39					
	GT-10-18					
GT-10-20, FH-31	FH-31	BV and Fire Hydrant				
	GT-10-20					
GT-10-2057		TRA-781 Firewater Isolation				
GT-10-22, FH-32	FH-32	BV and Fire Hydrant				
	GT-10-22					
GT-10-24		BV, FW ATR loop isolation				
GT-10-25, FH-34	FH-34	BV and Fire Hydrant				
	GT-10-25					
GT-10-27, FH-35	FH-35	BV and Fire Hydrant				
	GT-10-27					
GT-10-29, FH-36	FH-36	BV and Fire Hydrant				
	GT-10-29					
GT-10-32, FH-33	FH-33	BV and Fire Hydrant				
	GT-10-32					
GT-10-35		BV ATR lower EFIS				
GT-10-36		BV ATR FW loop				
GT-10-45, -46, -52	GT-10-45	Block valve, to TRA 670 fire sprinklers				
	GT-10-46					
	GT-10-52					
GT-10-47		BV, FW to ATR Reactor Spray				
GT-10-48		BV, to TRA-670 fire sprinkler #5				
GT-10-49		BV, to TRA-670 fire sprinkler #6				
GT-10-56		BV, FW ATR loop isolation				
GT-10-613		BV ATR FW Loop				
GT-10-614		BV, FW ATR loop isolation				
GT-10-62		BVs, FW to TRA-634				
GT-10-626		TRA-781 Well Water Isolation				
GT-10-629		688-M-1 Pump Suction Header Isolation				
GT-10-63		Block valve to upper vessel EFIS				

Equipment ID	Individual Component ID	Description	PC & Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
GT-10-630		688-M-2 Pump Suction Header Isolation				
GT-10-649		688-M-1 Pump Discharge to Firewater Main				
GT-10-650		688-M-2 Pump Discharge to Firewater Main				
GT-10-651		688-M-6 Surge Suppressor Isolation				
GT-10-657		FH-10-658 Isolation				
GT-10-659		TRA-688 South Loop Isolation				
GT-10-660		TRA-688 North Loop Isolation				
GT-10-669		TRA-781 Drain Isolation				
GT-10-671		TRA-688 Discharge Isolation				
GT-10-782		BV, to TRA-670 fire sprinkler #8				
GT-10-902		LT-10-92 Isolation Valve				
GT-1-614		Block valve, main firewater to upper vessel	X			Capacity does not bound demand.
GT-1-629		Upper Vessel EFIS Supply Vent	X			Capacity does not bound demand.
GT-1-84		Block valve, main firewater to bottom head				
GT-K-4-19		Block valve, inlet line to PCV-4-7				
GT-Q-10-37		Block Valve to Fire Hydrant				
GT-R-10-15, 17	GT-10-15	Block Valves to Fire Hydrants				
	GT-10-17					
GT-R-10-19		Block valve, F.W. ATR loop isolation				
GT-R-10-34		Block valve, F.W. ATR loop isolation				
GT-R-10-61		Block valves, F.W. to TRA-625				
GT-T-65, 66, 67, 68	GT-T-65	Isolation valves, to fire hose racks (4)				
	GT-T-66					
	GT-T-67					
	GT-T-68					
L 1, L 3	L 1	Block valve, FW pump outlet cross tie				
	L 3					
L 21		Block valve, F.W. to TRA 627				

Equipment ID	Individual Component ID	Description	PC 4 Criteria Not Satisfied	Subcomponent	Parent Component	Basis for Outlier
L 26		Block valve, F.W. to TRA 607				
L 8		Block valve, deepwell discharge to 619-10 discharge				
L-10		Block valve, F.W. to diesel fuel storage area				
L-11		Block valve, F.W. to diesel fuel storage area				
L-12, 13	L-12	BV raw water to FW loop				
	L-13					
L-16, 4, 2, 5, 6, 7	L-16	BV FW loop				
	L-2					
	L-4					
	L-5					
	L-6					
	L-7					
L-17		BV 633-1 discharge				
L-21		BV, FW to TRA-627				
L-22		Block valve, F.W. to TRA-614				
L-23		Block valve, F.W. to TRA-622				
L-24		Block valve, F.W. to TRA-609				
L-25		Block valve, F.W. to TRA-608				
L-26		BV, FW to TRA-607				
L-27		Block valve, F.W. to TRA-628				
L-32, -34, -37, -38, -39, -40	L-32	Block Valves to Fire Hydrants				
	L-34					
	L-37					
	L-39					
	L-40					
L-42,FH-40	FH-40	BV and Fire Hydrant				
	L-42					
L-8		BV, deep well pump discharge to FW loop				
LE-12-57		688-M-7 Fuel Tank Level Element		X	688-M-7	
LE-12-58		688-M-8 Fuel Tank Level Element		X	688-M-8	