Table 9A-1

FIRE PROTECTION EVALUATION

Legend for Table 9A-1

The information presented in each column of Table 9A-1 is explained as follows:

Area-Zone:	Identification code for fire areas and zones. Fire zones with identification codes beginning with the same number are located in the same fire area.
Structure:	Location of the fire area-zone, by structure. Locations are shown on Figures 9A-4 through 9A-12.
Elevation:	Elevation of the fire area-zone.
Room No.:	The room number as indicated on the Architectural drawings.
Fire Area-Zone Description:	Description of compartments included within the fire area or fire zone.
SR (Safety-Related):	Indicates whether or not the fire area or zone contains safety-related equipment or electrical cabling.
Floor Area (sqft):	Floor area of the fire area or fire zone.
Fire Hazard Material:	Type of combustible material located in the fire area-zone.
Combustible Loading:	Designator of "Low" (<60,000 BTU/ft^2), "Moderate" ($\geq$60,000 BTU/ft^2 or < 140,000 BTU/ft^2) or "High" ($\geq$140,000 BTU/ft^2).
Combustible Loading Change Limit (BTU/ ft^2)	Combustible loading changes which do not exceed these limits do not require additional documentation/justification by the plant Fire Protection Program Engineer.
Detection Type/No.:	Type of fire detectors and number detectors provided in the fire area or zone. Unless indicated otherwise, all smoke detectors are of the ionization type.
Suppression Type/Actuation:	Type of fire suppression system and method of actuation in the fire area

Table 9A-1 (Cont'd)

Notes:
(1) These smoke detectors are located below the suspended ceiling in the control room.
(2) These smoke detectors are located above the suspended ceiling in the control room.
(3) These heat detectors are located inside the charcoal filter plenum.
(4) These heat detectors are used to actuate the automatic suppression systems.
(5) Fire zone 113a and 113B are located in a portion of the turbine enclosure that is common to Unit 1 and Unit 2. The detectors identified by this note will be installed east of column line 23 for Unit 2 operation.
(6) These smoke detectors are of the photoelectric-type.
(7) These detectors are located inside offices 467, 568, and 569.
(8) These detectors are located inside offices 552, 553, 570, and 571.
(9) These smoke detectors are located inside the test engineer's workshop.
(10) Deleted
(11) This sprinkler system is installed above and inside facility/laydown area.
(12) This sprinkler system is installed in the Floor Operations Break Facility (Rm 468A, B, C).
(13) This sprinkler system is installed in the Plant Operations Building (Rm 468).
(14) These heat detectors are located inside the Unit 1/2 turbine generator exciter enclosures (2 per unit).
(15) These smoke detectors are located in the Unit 1/2 turbine generator exciter exhaust ductwork (1 per unit). (Detector suitable for high velocity airstream)
(16) Deleted.
(17) Room 258A floor area is contained in Room 258 floor area.
(18) Room 236A floor area is contained in Room 263 floor area.
(19) Common - Ceiling level.
(20) Unit 1 - PGCC Floor.
(21) Unit 1 - non-PGCC Floor.
(22) Unit - Termination Cabinets.
(23) Unit 2 - PGCC Floor.
(24) Unit 2 - non-PGCC Floor.
(25) Unit 2 - Termination Cabinets.
(26) Ceiling Level.
(27) Raised Floor.
(28) Charcoal enclosed in steel filter plenums has been accepted by NRC.

Table 9A-2

Heat of Combustion for Specific Materials (All values rounded to nearest 100 BTU/Unit)		
Material	Units	Heat of Combustion (BTU/Unit)
Acetylene Gas	lb	21,500
Alcohol (Ethyl)	gal.	83,800
Alcohol (Methyl)	gal.	65,500
Alpha Maritex Lead Shielding Blanket	Linear foot	2404
Battery Cases (Butadiene Acrylonitrile)	lb	17,200
Battery Spacers (Polystyrene Foam)	lb	17,100
Cable Insulation	lb	10,000
Carpet (Nylon)	lb	13,600
Charcoal	lb	14,900
Cloth (Cotton)	lb	8,800
Floor Tiles (Polyester Resin)	lb	10,000
Fuel Oil	gal.	135,500
Gasoline	gal.	120,600
Hydrogen	lb	61,000
Lube Oil	gal.	150,900
Lubricant (Grease)	lb	150,900
Methane Gas	cu. ft.	23,900
Oxygen	cu. ft.	0
Paper	lb	8,500
Plastic (Polyethylene)	lb	20,000
Propane	lb	21,700
Rubber (Butyl)	lb	19,700
Trash (40 lb bag)	ea.	290,500
Wood (White Pine)	lb	8,300
R/A Insulation	lb	8,000
Polycarbonate	lb	13,300
Thermo-Lag 330-1	lb	7,000
Thermo-Lag 770-1	lb	4,800
Polyvinyl Chloride (PVC)	lb	7,730
Fiberglass	lb	14,000
Silicon Rubber	lb	7,200

Table 9A-3

INSULATION AND JACKETING MATERIALS
USED FOR ELECTRICAL CABLING

CABLE APPLICATION	INSULATION	JACKETING
Communication	Polyvinyl chloride	Polyvinyl chloride
Lighting	Thermoplastic (THHN, THWN, or THW)	None
Grounding	Thermoplastic (THW)	None
Instrumentation	Cross-linked polyethylene	Neoprene
	Flamtrol (flame-retardant cross-linked polyolefin)	Flamtrol
Coaxial and triaxial	Cross-linked Polyolefin	Cross-linked polyolefin
600 V control	Cross-linked polyethylene	Neoprene
	Rubber	Neoprene
	Rockbestos "Heatzone I"	Rockbestos "Heatzone I"
600 V power	Cross-linked polyethylene	Neoprene
	Ethylene propylene rubber	Hypalon
	Cross-linked polyethylene[4]	Polyvinyl chloride
	Cross-linked Polyethylene	Chlorinated polyethylene
5 kV and 15 kV power[5]	Ethylene propylene rubber	Hypalon
	Ethylene propylene Rubber	Semi-conducting chlorinated polyethylene
	Cross-linked polyethylene	Polyvinyl chloride
Computer cables	Cross-linked polyethylene	Neoprene
	Rayolin F (cross-linked radiation-resistant polyolefin)	Flamtrol
Multiconductor[1]	Cross-linked polyethylene	Neoprene

Table 9A-3 (Cont'd)

CABLE APPLICATION	INSULATION	JACKETING
Multiconductor (shielded)(1)	Cross-linked polyethylene or cross-linked modified polyolefin	Neoprene or cross-linked polyolefin
Twisted shielded pairs(1)	Cross-linked polyalkene and polyvinylidene fluoride	Cross-linked modified polyolefin
Thermocouple(1)	Cross-linked polyethylene	Cross-linked polyethylene
Coaxial (RG-type)(1)	Cross-linked polyethylene	Cross-linked polyethylene polyvinyl chloride
Coaxial (twin conductor)(1)	Alkaneimide polymer cross-linked polyolefin polyethylene	Cross-linked polyethylene polyvinyl chloride
Coaxial (high temperature, radiation resistant)(1)	Cross-linked polyethylene	Cross-linked polyethylene
Twisted pairs or twisted triples (high performance)(1)	Polyalkene and polyvinylidene fluoride	Cross-linked polyvinylidene fluoride and cross-linked polyolefin
Armored Coaxial Cable for Video signals from Drywell video cameras(6)	Cross-linked polyethylene	Polyvinyl Chloride
Armored Multiconductor cable for Drywell video camera control and audio signals(6)	Cross-linked polyethylene	Polyvinyl Chloride

Table 9A-3 (Cont'd)

(1) These cables are associated with the PGCC and the deep bed demineralizer system.

(2) Insulation for lighting cables and grounding cables is specified as flame retardant in accordance with the National Electric Code. Insulation and jacketing for all other cables, with the exception of communications cables, are specified to meet the IEEE 383 flame test requirements. An insignificant length of data cable which is not IEEE 383 rated is added to the Unit 1 and Unit 2 drywell as a part of the MUR (Measurement Uncertainty Recapture) Project. The cables were evaluated and found to be acceptable. The cables were not routed together with cables associated with other plant systems.

(3) Ignition of electrical cabling, in the absence of a fire source external to the cabling, is extremely unlikely. The consequences of an overload condition are minimized by conservative cable ratings and by the use of overload devices in power circuits and fault current interrupting devices in essentially all circuits. In addition, cable insulation and jacketing materials are chosen for their fire retardant and self-extinguishing properties, such that fuel contribution to a cable fire is minimized and propagation of a fire along cables is self-limiting.

(4) This cable is used in the main condenser areas and condensate pump rooms.

(5) Use of cross-linked polyethylene insulation and polyvinyl chloride applies to 15kV cable only.

(6) These cables are used with the Health Physics temporary video cameras and Remote Console. The cables route video signals, control and audio signals to and from the Remote console, which is located outside the Drywell, to the cameras located inside the Drywell during outages.

Table 9A-4

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
00A119	101 SAFEGUARD BUS	APS	0	428 429 430 431 432 433 434 435 447 YARD	018 019 016 017 014 015 012 013 113 YARD	
00A120	201 SAFEGUARD BUS	APS	0	428 429 430 431 432 433 434 435 465 YARD	018 019 016 017 014 015 012 013 113 YARD	
00B131	480V MCC	EPS	C	619	027	
00B132	480V MCC	EPS	D	619	027	
00B519	480V MCC	EPS	A	1000	122	
00B520	480V MCC	EPS	B	1005	123	
00B521	480V MCC	EPS	C	1000	122	
00B522	480V MCC	EPS	D	1005	123	
01X566	TRANSFORMER	EPS	A	1000	122	
01Y501	120V AC INST PANEL	EPS	A	1000	122	
02X566	TRANSFORMER	EPS	B	1005	123	
02Y501	120V AC INST PANEL	EPS	B	1005	123	
03X566	TRANSFORMER	EPS	C	1000	122	
03Y501	120V AC INST PANEL	EPS	C	1000	122	
04X566	TRANSFORMER	EPS	D	1005	123	
04Y501	120V AC INST PANEL	EPS	D	1005	123	
0AP506	RHRSW PUMP "A"	RHRSW	A	1000	122	1-RHRSW-A 2-RHRSW-A
0AP548	ESW PUMP "A"	ESW	A	1000	122	0-ESW-A 0-ESW-R
0AV543	SYSTEM "A" FAN CABINET	SPPV	A	1000	122	1-RHRSW-A 2-RHRSW-A 0-ESW-R 0-ESW-A
0AX103	101 SAFEGUARD XMFR	APS	0	YARD	YARD	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
0AX104	101 SAFEGUARD XMFR GROUNDING RESISTOR	APS	0	YARD	YARD	
0BP506	RHRSW PUMP "B"	RHRSW	B	1005	123	1-RHRSW-B 2-RHRSW-B
0BP548	ESW PUMP "B"	ESW	B	1005	123	0-ESW-B
0BV543	SYSTEM "B" FAN CABINET	SPPV	B	1005	123	2-RHRSW-B 1-RHRSW-B 0-ESW-B
0BX103	201 SAFEGUARD XMFR	APS	0	YARD	YARD	
0BX104	201 SAFEGUARD XMFR GROUNDING RESISTOR	APS	0	YARD	YARD	
0CP506	RHRSW PUMP "C"	RHRSW	A	1000	122	1-RHRSW-A 2-RHRSW-A
0CP548	ESW PUMP "C"	ESW	C	1000	122	0-ESW-A
0CV543	SYSTEM "C" FAN CABINET	SPPV	C	1000	122	1-RHRSW-A 2-RHRSW-A 0-ESW-A
0DP506	RHRSW PUMP "D"	RHRSW	B	1005	123	2-RHRSW-B 1-RHRSW-B
0DP548	ESW PUMP "D"	ESW	D	1005	123	0-ESW-B
0DV543	SYSTEM "D" FAN CABINET	SPPV	D	1005	123	0-ESW-B 1-RHRSW-B 2-RHRSW-B
101D112	101 NON-SAFEGUARD BATTERY	APS	0(D)	443	096	
101D113	BATTERY CHARGER	APS	0(D)	445	095	
102D112	102 NON-SAFEGUARD BATTERY	APS	0(D)	443	096	
102D113	BATTERY CHARGER	APS	0(D)	445	095	
105CROM*	105 CROMBY SUBSTATION BREAKER	APS	0	YARD	YARD	
10A103	10 STATION AUX BUS 13.2 KV	APS	0	336	002	
10A115	D11 SAFEGUARD SWGR	EPS	A	435	013	
10A116	D12 SAFEGUARD SWGR	EPS	B	433	015	
10A117	D13 SAFEGUARD SWGR	EPS	C	434	012	
10A118	D14 SAFEGUARD SWGR	EPS	D	432	014	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
10B129	480V MCC	EPS	A	548	098	
10B201	480V SAFEGUARD LOAD CTR	EPS	A	602W	048W	
10B202	480V SAFEGUARD LOAD CTR	EPS	B	602E	048E	
10B203	480V SAFEGUARD LOAD CTR	EPS	C	402W	045W	
10B204	480V SAFEGUARD LOAD CTR	EPS	D	506E	047E	
10B211	480V MCC	EPS	A	304W	044W	
10B212	480V MCC	EPS	B	304E	044E	
10B213	480V MCC	EPS	A	506W	047W	
10B214	480V MCC	EPS	B	506E	047E	
10B215	480V MCC	EPS	A	304W	044W	
10B216	480V MCC	EPS	B	304E	044E	
10B217	480V MCC	EPS	C	200	042	
10B218	480V MCC	EPS	D	207	041	
10B223	480V MCC	EPS	C	402W	045W	
10B224	480V MCC	EPS	D	402E	045E	
10B515	480V MCC	EPS	A	311A	079	
10B516	480V MCC	EPS	B	311B	081	
10B517	480V MCC	EPS	C	311C	080	
10B518	480V MCC	EPS	D	311D	082	
10D106	125/250V DC GROUND DETECTION CABINET	APS	0(D)	445	095	
10D114	125/250V DC FUSE BOX	APS	0(D)	445	095	
10D115	125/250V DC FUSE BOX	APS	0(D)	338	089	
10D116	UNIT CROSS TIE FUSE BOX	APS	0(D)	445	095	
10D201	250V DC MCC	EPS	A	304W	044W	
10D202	250V DC MCC	EPS	B	304E	044E	
10D203	250V DC MCC	EPS	B	304E	044E	
10P203	RCIC PUMP	RCIC	N/A	108	033	1-RCIC

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
10P204	HPCI PUMP	HPCI	N/A	109	034	1-HPCI
10P213	HPCI TURBINE AUXILIARY OIL PUMP	HPCI	B	109	034	1-HPCI
10TB-HPCIEGM*	HPCI TURBINE FLOW CONTROL	HPCI	B	200	042	
10TB-RCICEGM*	RCIC TURBINE FLOW CONTROL	RCIC	A	108	033	
10X106	TRANSFORMER	EPS	A	435	013	
10X107	TRANSFORMER	EPS	B	433	015	
10X108	TRANSFORMER	EPS	C	434	012	
10X109	TRANSFORMER	EPS	D	432	014	
10X110	TRANSFORMER	EPS	0(A)	438	088	
10X182	TRANSFORMER	EPS	C	619	027	
10X183	TRANSFORMER	EPS	D	619	027	
10X201	TRANSFORMER	EPS	A	602W	048W	
10X202	TRANSFORMER	EPS	B	602E	048E	
10X203	TRANSFORMER	EPS	C	402W	045W	
10X204	TRANSFORMER	EPS	D	506E	047E	
10X281	TRANSFORMER	EPS	A	619	027	
10Y101	120V AC INST PANEL	EPS	A	435	013	
10Y102	120V AC INST PANEL	EPS	B	433	015	
10Y103	120V AC INST PANEL	EPS	C	434	012	
10Y104	120V AC INST PANEL	EPS	D	432	014	
10Y105	120V AC INST PANEL	EPS	0(A)	438	088	
10Y163	120V AC DIST PANEL	EPS	C	619	027	
10Y164	120V AC DIST PANEL	EPS	D	619	027	
10Y206	120V AC DIST PANEL	EPS	A	619	027	
1A1D101	125V BATTERY	EPS	A	436	009	
1A1D103	BATTERY CHARGER	EPS	A	436	009	
1A1K513	1A1 DG STARTING AIR COMPRESSOR	SDG	A	311A	079	
1A1T558	A DG STARTING AIR RESERVOIR A1	SDG	N/A	311A	079	
1A2D101	125V BATTERY	EPS	A	436	009	
1A2D103	BATTERY CHARGER	EPS	A	436	009	
1A2T558	A DG STARTING AIR RESERVOIR A2	SDG	N/A	311A	079	
1AD102	125V DC DIST PANEL	EPS	A	435	013	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
1AD105	125/250V DC BUS FUSE BOX	EPS	A	436	009	
1AD162	125V DC DIST PANEL	EPS	A	435	013	
1AD501	125V DC POWER DIST PANEL	EPS	A	311A	079	
1AE205	1A RHR HEAT EXCHANGER	RHR	N/A	203	032	1-RHRASC-C 1-RHRSPC-C 1-RHRSPC-A 1-RHRSC-C 1-RHRLPCI-A 1-RHRASC-A 1-RHRSC-A
1AG501	DIESEL GENERATOR "A"	SDG	A	311A	079	
1AP202	RHR PUMP "A"	RHR	A	102	032	1-RHRASC-A 1-RHRSPC-A 1-RHRSC-A 1-RHRLPCI-A
1AP514	DIESEL OIL TRANSFER PUMP	SDG	A	YARD	YARD	
1AS252-1	A PCIG/ADS LONG TERM NITROGEN BOTTLE	PCIG	N/A	304W	044W	1-RHRASC-A 1-RHRASC-B
1AS252-2	A PCIG/ADS LONG TERM NITROGEN BOTTLE	PCIG	N/A	304W	044W	1-RHRASC-A 1-RHRASC-B
1AS252-3	A PCIG/ADS LONG TERM NITROGEN BOTTLE	PCIG	N/A	304W	044W	1-RHRASC-A 1-RHRASC-B
1AT003	MSRV ACCUMULATOR	MSRV	N/A	400	030	
1AV208	RCIC COMPARTMENT UNIT COOLER	REV	A	108	033	1-RCIC
1AV209	HPCI COMPARTMENT UNIT COOLER	REV	B	109	034	1-HPCI
1AV210	RHR COMPARTMENT UNIT COOLER	REV	A	102	032	1-RHRASC-A 1-RHRLPCI-A 1-RHRSC-A 1-RHRSPC-A
1AV512	CELL "A" AIR EXHAUST FAN	DGEV	A	311A	079	
1B1D101	125V BATTERY	EPS	B	425	008	
1B1D103	BATTERY CHARGER	EPS	B	425	008	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
1B1K513	1B1 DG STARTING AIR COMPRESSOR	SDG	B	311B	081	
1B1T558	B DG STARTING AIR RESERVOIR B1	SDG	N/A	311B	081	
1B2D101	125V BATTERY	EPS	B	425	008	
1B2D103	BATTERY CHARGER	EPS	B	425	008	
1B2T558	B DG STARTING AIR RESERVOIR B2	SDG	N/A	311B	081	
1BD102	125V DC DIST PANEL	EPS	B	452	020	
1BD105	125/250V DC BUS FUSE BOX	EPS	B	425	008	
1BD501	125V DC POWER DIST PANEL	EPS	B	311B	081	
1BE205	1B RHR HEAT EXCHANGER	RHR	N/A	204	031	1-RHRASC-D 1-RHRSPC-D 1-RHRSPC-B 1-RHRSC-D 1-RHRLPCI-B 1-RHRASC-B 1-RHRSC-B
1BG501	DIESEL GENERATOR "B"	SDG	B	311B	081	
1BP202	RHR PUMP "B"	RHR	B	103	031	1-RHRSC-B 1-RHRLPCI-B 1-RHRASC-B 1-RHRSPC-B
1BP514	DIESEL OIL TRANSFER PUMP	SDG	B	YARD	YARD	
1BS252-1	B PCIG/ADS LONG TERM NITROGEN BOTTLE	PCIG	N/A	304E	044E	1-RHRASC-A 1-RHRASC-B
1BS252-2	B PCIG/ADS LONG TERM NITROGEN BOTTLE	PCIG	N/A	304E	044E	1-RHRASC-A 1-RHRASC-B
1BS252-3	B PCIG/ADS LONG TERM NITROGEN BOTTLE	PCIG	N/A	304E	044E	1-RHRASC-A 1-RHRASC-B
1BV208	RCIC COMPARTMENT UNIT COOLER	REV	A	108	033	1-RCIC
1BV209	HPCI COMPARTMENT UNIT COOLER	REV	B	109	034	1-HPCI

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
1BV210	RHR COMPARTMENT UNIT COOLER	REV	B	103	031	1-RHRASC-B 1-RHRLPCI-B 1-RHRSC-B 1-RHRSPC-B
1BV512	CELL "B" AIR EXHAUST FAN	DGEV	B	311B	081	
1C1K513	1C1 DG STARTING AIR COMPRESSOR	SDG	C	311C	080	
1C1T558	C DG STARTING AIR RESERVOIR C1	SDG	N/A	311C	080	
1C2T558	C DG STARTING AIR RESERVOIR C2	SDG	N/A	311C	080	
1CD101	125V BATTERY	EPS	C	324	004	
1CD102	125V DC DIST PANEL	EPS	C	434	012	
1CD103	BATTERY CHARGER	EPS	C	324	004	
1CD105	125V DC BUS FUSE BOX	EPS	C	324	004	
1CD108	125V DC POWER DIST PANEL	APS	0(D)	338	089	
1CD501	125V DC POWER DIST PANEL	EPS	C	311C	080	
1CG501	DIESEL GENERATOR "C"	SDG	C	311C	080	
1CP202	RHR PUMP "C"	RHR	C	102	032	1-RHRSC-C 1-RHRSPC-C 1-RHRLPCI-C 1-RHRASC-C
1CP514	DIESEL OIL TRANSFER PUMP	SDG	C	YARD	YARD	
1CT003	MSRV ACCUMULATOR	MSRV	N/A	400	030	
1CV210	RHR COMPARTMENT UNIT COOLER "C"	REV	C	102	032	1-RHRASC-C 1-RHRLPCI-C 1-RHRSC-C 1-RHRSPC-C
1CV512	CELL "C" AIR EXHAUST FAN	DGEV	C	311C	080	
1D1T558	D DG STARTING AIR RESERVOIR D1	SDG	N/A	311D	082	
1D2T558	D DG STARTING AIR RESERVOIR D2	SDG	N/A	311D	082	
1DD101	125V BATTERY	EPS	D	323	003	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
1DD102	125V DC DIST PANEL	EPS	D	452	020	
1DD103	BATTERY CHARGER	EPS	D	323	003	
1DD105	125V DC BUS FUSE BOX	EPS	D	323	003	
1DD501	125V DC POWER DIST PANEL	EPS	D	311D	082	
1DG501	DIESEL GENERATOR "D"	SDG	D	311D	082	
1DP202	RHR PUMP "D"	RHR	D	103	031	1-RHRASC-D 1-RHRLPCI-D 1-RHRSC-D 1-RHRSPC-D
1DP514	DIESEL OIL TRANSFER PUMP	SDG	D	YARD	YARD	
1DV210	RHR COMPARTMENT UNIT COOLER "D"	REV	D	103	031	1-RHRSPC-D 1-RHRASC-D 1-RHRLPCI-D 1-RHRSC-D
1DV512	CELL "D" AIR EXHAUST FAN	DGEV	D	311D	082	
1ET003	MSRV ACCUMULATOR	ADS	N/A	400	030	
1EV210	RHR COMPARTMENT UNIT COOLER	REV	A	102	032	1-RHRASC-A 1-RHRLPCI-A 1-RHRSC-A 1-RHRSPC-A
1EV512	CELL "A" AIR EXHAUST FAN	DGEV	A	311A	079	
1FV210	RHR COMPARTMENT UNIT COOLER	REV	B	103	031	1-RHRASC-B 1-RHRSPC-B 1-RHRLPCI-B 1-RHRSC-B
1FV512	CELL "B" AIR EXHAUST FAN	DGEV	B	311B	081	
1GV210	RHR COMPARTMENT UNIT COOLER	REV	C	102	032	1-RHRSPC-C 1-RHRASC-C 1-RHRLPCI-C 1-RHRSC-C
1GV512	CELL "C" AIR EXHAUST FAN	DGEV	C	311C	080	
1HT003	MSRV ACCUMULATOR	ADS	N/A	400	030	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
1HV512	CELL "D" AIR EXHAUST FAN	DGEV	D	311D	082	
1KT003	MSRV ACCUMULATOR	ADS	N/A	400	030	
1MT003	MSRV ACCUMULATOR	ADS	N/A	400	030	
1NT003	MSRV ACCUMULATOR	MSRV	N/A	400	030	
1ST003	MSRV ACCUMULATOR	ADS	N/A	400	030	
201D112	201 NON-SAFEGUARD BATTERY	APS	0(D)	460	109	
201D113	BATTERY CHARGER	APS	0(D)	461	108	
202D112	202 NON-SAFEGUARD BATTERY	APS	0(D)	460	109	
202D113	BATTERY CHARGER	APS	0(D)	461	108	
205WHIT*	205 WHITPAIN SUBSTATION BREAKER	APS	0	YARD	YARD	
20A103	20 STATION AUX BUS 13.2 KV	APS	0	336	002	
20A115	D21 SAFEGUARD SWITCHGEAR	EPS	A	429	019	
20A116	D22 SAFEGUARD SWITCHGEAR	EPS	B	431	017	
20A117	D23 SAFEGUARD SWITCHGEAR	EPS	C	428	018	
20A118	D24 SAFEGUARD SWITCHGEAR	EPS	D	430	016	
20A121	CABLE BUS	APS	0	336 346 354 357A YARD	002 107 107 107 YARD	
20B129	480V MCC	EPS	A	564	111	
20B201	480V SAFEGUARD LOAD CTR	EPS	A	638W	071W	
20B202	480V SAFEGUARD LOAD CTR	EPS	B	638E	071E	
20B203	480V SAFEGUARD LOAD CTR	EPS	C	475W	068W	
20B204	480V SAFEGUARD LOAD CTR	EPS	D	580W	070W	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
20B211	480V MCC	EPS	A	370W	067W	
20B212	480V MCC	EPS	B	370E	067E	
20B213	480V MCC	EPS	A	580W	070W	
20B214	480V MCC	EPS	B	580E	070E	
20B215	480V MCC	EPS	A	370W	067W	
20B216	480V MCC	EPS	B	370E	067E	
20B217	480V MCC	EPS	C	284	064	
20B218	480V MCC	EPS	D	279	065	
20B223	480V MCC	EPS	C	475W	068W	
20B224	480V MCC	EPS	D	475E	068E	
20B515	480V MCC	EPS	A	315A	083	
20B516	480V MCC	EPS	B	315B	085	
20B517	480V MCC	EPS	C	315C	084	
20B518	480V MCC	EPS	D	315D	086	
20D106	125/250V DC GROUND DETECTION CABINET	APS	0(D)	463	108	
20D114	125/250V DC FUSE BOX	APS	0(D)	461	108	
20D115	125/250V DC FUSE BOX	APS	0(D)	351	102	
20D201	250V DC MCC	EPS	A	370W	067W	
20D202	250V DC MCC	EPS	B	370E	067E	
20D203	250V DC MCC	EPS	B	370E	067E	
20P203	RCIC PUMP	RCIC	N/A	179	056	2-RCIC
20P204	HPCI PUMP	HPCI	N/A	180	057	2-HPCI
20P213	HPCI TURBINE AUXILIARY OIL PUMP	HPCI	B	180	057	2-HPCI
20TB-HPCIEGM*	HPCI TURBINE FLOW CONTROL	HPCI	B	279	065	
20TB-RCICEGM*	RCIC TURBINE FLOW CONTROL	RCIC	A	179	056	
20X106	TRANSFORMER	EPS	A	429	019	
20X107	TRANSFORMER	EPS	B	431	017	
20X108	TRANSFORMER	EPS	C	428	018	
20X109	TRANSFORMER	EPS	D	430	016	
20X110	TRANSFORMER	EPS	0(A)	464	101	
20X201	TRANSFORMER	EPS	A	638W	071W	
20X202	TRANSFORMER	EPS	B	638E	071E	
20X203	TRANSFORMER	EPS	C	475W	068W	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
20X204	TRANSFORMER	EPS	D	580W	070W	
20X281	TRANSFORMER	EPS	A	625	028	
20X282	TRANSFORMER	EPS	B	619	027	
20X283	TRANSFORMER	EPS	C	625	028	
20X284	TRANSFORMER	EPS	D	619	027	
20Y101	120V AC INST PANEL	EPS	A	429	019	
20Y102	120V AC INST PANEL	EPS	B	431	017	
20Y103	120V AC INST PANEL	EPS	C	428	018	
20Y104	120V AC INST PANEL	EPS	D	430	016	
20Y105	120V AC INST PANEL	EPS	0(A)	464	101	
20Y163	120V AC DIST PANEL	EPS	C	625	028	
20Y164	120V AC DIST PANEL	EPS	D	619	027	
20Y206	120V AC DIST PANEL	EPS	A	625	028	
20Y207	120V AC DIST PANEL	EPS	B	619	027	
2A1D101	125V BATTERY	EPS	A	427	011	
2A1D103	BATTERY CHARGER	EPS	A	427	011	
2A1K513	2A1 DG STARTING AIR COMPRESSOR	SDG	A	315A	083	
2A1T558	A DG STARTING AIR RESERVOIR A1	SDG	N/A	315A	083	
2A2D101	125V BATTERY	EPS	A	427	011	
2A2D103	BATTERY CHARGER	EPS	A	427	011	
2A2T558	A DG STARTING AIR RESERVOIR A2	SDG	N/A	315A	083	
2AD102	125V DC DIST PANEL	EPS	A	429	019	
2AD105	125/250V DC BUS FUSE BOX	EPS	A	427	011	
2AD501	125V DC POWER DIST PANEL	EPS	A	315A	083	
2AE205	2A RHR HEAT EXCHANGER	RHR	N/A	280	054	2-RHRSC-A 2-RHRSPC-C 2-RHRSC-C 2-RHRLPCI-A 2-RHRASC-C 2-RHRASC-A 2-RHRSPC-A
2AG501	DIESEL GENERATOR "A"	SDG	A	315A	083	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
2AP202	RHR PUMP "A"	RHR	A	173	054	2-RHRSPC-A 2-RHRASC-A 2-RHRLPCI-A 2-RHRSC-A
2AP514	DIESEL OIL TRANSFER PUMP	SDG	A	YARD	YARD	
2AS252-1	A PCIG/ADS LONG TERM NITROGEN BOTTLE	PCIG	N/A	370E	067E	2-RHRASC-A 2-RHRASC-B
2AS252-2	A PCIG/ADS LONG TERM NITROGEN BOTTLE	PCIG	N/A	370E	067E	2-RHRASC-A 2-RHRASC-B
2AS252-3	A PCIG/ADS LONG TERM NITROGEN BOTTLE	PCIG	N/A	370E	067E	2-RHRASC-A 2-RHRASC-B
2AT003	MSRV ACCUMULATOR	MSRV	N/A	473	053	
2AV208	RCIC COMPARTMENT UNIT COOLER	REV	A	179	056	2-RCIC
2AV209	HPCI COMPARTMENT UNIT COOLER	REV	B	180	057	2-HPCI
2AV210	RHR COMPARTMENT UNIT COOLER	REV	A	173	054	2-RHRASC-A 2-RHRLPCI-A 2-RHRSC-A 2-RHRSPC-A
2AV512	CELL "A" AIR EXHAUST FAN	DGEV	A	315A	083	
2B1D101	125V BATTERY	EPS	B	426	010	
2B1D103	BATTERY CHARGER	EPS	B	426	010	
2B1K513	2B1 DG STARTING AIR COMPRESSOR	SDG	B	315B	085	
2B1T558	B DG STARTING AIR RESERVOIR B1	SDG	N/A	315B	085	
2B2D101	125V BATTERY	EPS	B	426	010	
2B2D103	BATTERY CHARGER	EPS	B	426	010	
2B2T558	B DG STARTING AIR RESERVOIR B2	SDG	N/A	315B	085	
2BD102	125V DC DIST	EPS PANEL	B	453	021	
2BD105	125/250V DC BUS FUSE BOX	EPS	B	426	010	
2BD501	125V DC POWER DIST PANEL	EPS	B	315B	085	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
2BE205	2B RHR HEAT EXCHANGER	RHR	N/A	281	055	2-RHRSC-B 2-RHRSPC-D 2-RHRSC-D 2-RHRLPCI-B 2-RHRASC-D 2-RHRASC-B 2-RHRSPC-B
2BG501	DIESEL GENERATOR "B"	SDG	B	315B	085	
2BP202	RHR PUMP "B"	RHR	B	174	055	2-RHRSPC-B 2-RHRASC-B 2-RHRLPCI-B 2-RHRSC-B
2BP514	DIESEL OIL TRANSFER PUMP	SDG	B	YARD	YARD	
2BS252-1	B PCIG/ADS LONG TERM NITROGEN BOTTLE	PCIG	N/A	370E	067E	2-RHRASC-A 2-RHRASC-B
2BS252-2	B PCIG/ADS LONG TERM NITROGEN BOTTLE	PCIG	N/A	370E	067E	2-RHRASC-A 2-RHRASC-B
2BS252-3	B PCIG/ADS LONG TERM NITROGEN BOTTLE	PCIG	N/A	370E	067E	2-RHRASC-A 2-RHRASC-B
2BV208	RCIC COMPARTMENT UNIT COOLER	REV	A	179	056	2-RCIC
2BV209	HPCI COMPARTMENT UNIT COOLER	REV	B	180	057	2-HPCI
2BV210	RHR COMPARTMENT UNIT COOLER	REV	B	174	055	2-RHRLPCI-B 2-RHRSC-B 2-RHRASC-B 2-RHRSPC-B
2BV512	CELL "B" AIR EXHAUST FAN	DGEV	B	315B	085	
2C1T558	C DG STARTING AIR RESERVOIR C1	SDG	N/A	315C	084	
2C2T558	C DG STARTING AIR RESERVOIR C2	SDG	N/A	315C	084	
2CD101	125V BATTERY	EPS	C	361	006	
2CD102	125V DC DIST PANEL	EPS	C	428	018	
2CD103	BATTERY CHARGER	EPS	C	361	006	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
2CD105	125V DC BUS FUSE BOX	EPS	C	361	006	
2CD108	125V DC POWER DIST PANEL	APS	0(D)	351	102	
2CD162	125V DC DIST PANEL	EPS	C	428	018	
2CD501	125V DC POWER DIST PANEL	EPS	C	315C	084	
2CG501	DIESEL GENERATOR "C"	SDG	C	315C	084	
2CP202	RHR PUMP "C"	RHR	C	173	054	2-RHRASC-C 2-RHRLPCI-C 2-RHRSC-C 2-RHRSPC-C
2CP514	DIESEL OIL TRANSFER PUMP	SDG	C	YARD	YARD	
2CT003	MSRV ACCUMULATOR	MSRV	N/A	473	053	
2CV210	RHR COMPARTMENT UNIT COOLER "C"	REV	C	173	054	2-RHRLPCI-C 2-RHRSC-C 2-RHRSPC-C 2-RHRASC-C
2CV512	CELL "C" AIR EXHAUST FAN	DGEV	C	315C	084	
2D1T558	D DG STARTING AIR RESERVOIR D1	SDG	N/A	315D	086	
2D2T558	D DG STARTING AIR RESERVOIR D2	SDG	N/A	315D	086	
2DD101	125V BATTERY	EPS	D	360	005	
2DD102	125V DC DIST PANEL	EPS	D	453	021	
2DD103	BATTERY CHARGER	EPS	D	360	005	
2DD105	125V DC BUS FUSE BOX	EPS	D	360	005	
2DD501	125V DC POWER DIST PANEL	EPS	D	315D	086	
2DG501	DIESEL GENERATOR "D"	SDG	D	315D	086	
2DP202	RHR PUMP "D"	RHR	D	174	055	2-RHRASC-D 2-RHRLPCI-D 2-RHRSC-D 2-RHRSPC-D
2DP514	DIESEL OIL TRANSFER PUMP	SDG	D	YARD	YARD	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
2DV210	RHR COMPARTMENT UNIT COOLER "D"	REV	D	174	055	2-RHRASC-D 2-RHRLPCI-D 2-RHRSC-D 2-RHRSPC-D
2DV512	CELL "D" AIR EXHAUST FAN	DGEV	D	315D	086	
2ET003	MSRV ACCUMULATOR	ADS	N/A	473	053	
2EV210	RHR COMPARTMENT UNIT COOLER	REV	A	173	054	2-RHRLPCI-A 2-RHRSC-A 2-RHRSPC-A 2-RHRASC-A
2EV512	CELL "A" AIR EXHAUST FAN	DGEV	A	315A	083	
2FV210	RHR COMPARTMENT UNIT COOLER	REV	B	174	055	2-RHRASC-B 2-RHRLPCI-B 2-RHRSC-B 2-RHRSPC-B
2FV512	CELL "B" AIR EXHAUST FAN	DGEV	B	315B	085	
2GV210	RHR COMPARTMENT UNIT COOLER	REV	C	173	054	2-RHRSPC-C 2-RHRASC-C 2-RHRLPCI-C 2-RHRSC-C
2GV512	CELL "C" AIR EXHAUST FAN	DGEV	C	315C	084	
2HT003	MSRV ACCUMULATOR	ADS	N/A	473	053	
2HV210	RHR COMPARTMENT UNIT COOLER	REV	D	174	055	2-RHRASC-D 2-RHRLPCI-D 2-RHRSC-D 2-RHRSPC-D
2HV512	CELL "D" AIR EXHAUST FAN	DGEV	D	315D	086	
2KT003	MSRV ACCUMULATOR	ADS	N/A	473	053	
2MT003	MSRV ACCUMULATOR	ADS	N/A	473	053	
2NT003	MSRV ACCUMULATOR	MSRV	N/A	473	053	
2ST003	MSRV ACCUMULATOR	ADS	N/A	473	053	
51-1F067A	RHR PUMP SHUTDOWN COOLING SUCTION VALVE	RHR	N/A	203	032	1-RHRSC-C

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
51-1F067B	RHR PUMP SHUTDOWN COOLING SUCTION VALVE	RHR	N/A	204	031	1-RHRSC-D
51-2F067A	RHR PUMP SHUTDOWN COOLING SUCTION VALVE	RHR	N/A	280	054	2-RHRSC-C
51-2F067B	RHR PUMP SHUTDOWN COOLING SUCTION VALVE	RHR	N/A	281	055	2-RHRSC-D
FC-55-1R600	FLOW CONTROLLER	HPCI	B	533	024	
FC-55-2R600	FLOW CONTROLLER	HPCI	B	533	024	
FI-11-013A	ESW LOOP A SUPPLY	ESW	A	533	024	0-ESW-A
FI-11-013B	ESW LOOP B SUPPLY	ESW	B	533	024	0-ESW-B
FI-49-1R001-1	PUMP DISCHARGE LINE FLOW INDICATOR	RCIC	A	540	026	1-RCIC
FI-49-1R600-1	PUMP DISCHARGE LINE FLOW INDICATOR	RCIC	A	533	024	1-RCIC
FI-49-2R001-1	PUMP DISCHARGE LINE FLOW INDICATOR	RCIC	A	540	026	2-RCIC
FI-49-2R600-1	PUMP DISCHARGE LINE FLOW INDICATOR	RCIC	A	533	024	2-RCIC
FI-51-1R005	HEAT EXCHANGER DISCHARGE LINE FLOW INDICATOR	RHR	A	540	026	1-RHRSC-A 1-RHRSPC-A
FI-51-1R602A	RHR HEAT EXCHANGER "A" SHELL SIDE INLET FLOW INDICATOR	RHRSW	A	533	024	1-RHRSW-A
FI-51-1R602B	RHR HEAT EXCHANGER "B" SHELL SIDE INLET FLOW INDICATOR	RHRSW	B	533	024	1-RHRSW-B
FI-51-1R603A	HEAT EXCHANGER DISCHARGE LINE FLOW INDICATOR	RHR	A	533	024	1-RHRSC-C 1-RHRSPC-C 1-RHRSPC-A 1-RHRLPCI-A 1-RHRASC-C 1-RHRASC-A 1-RHRSC-A

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
FI-51-1R603B	HEAT EXCHANGER DISCHARGE LINE FLOW INDICATOR	RHR	B	533	024	1-RHRSC-B 1-RHRSPC-D 1-RHRSC-D 1-RHRLPCI-B 1-RHRASC-D 1-RHRASC-B 1-RHRSPC-B
FI-51-1R603C	LOOP "C" DISCHARGE LINE FLOW INDICATOR	RHR	C	533	024	1-RHRLPCI-C
FI-51-1R603D	LOOP "D" DISCHARGE LINE FLOW INDICATOR	RHR	D	533	024	1-RHRLPCI-D
FI-51-2R005	HEAT EXCHANGER DISCHARGE LINE FLOW INDICATOR	RHR	A	540	026	2-RHRSC-A 2-RHRSPC-A
FI-51-2R602A	RHR HEAT EXCHANGER "A" SHELL SIDE INLET FLOW INDICATOR	RHRSW	A	533	024	2-RHRSW-A
FI-51-2R602B	RHR HEAT EXCHANGER "B" SHELL SIDE INLET FLOW INDICATOR	RHRSW	B	533	024	2-RHRSW-B
FI-51-2R603A	HEAT EXCHANGER DISCHARGE LINE FLOW INDICATOR	RHR	A	533	024	2-RHRSPC-C 2-RHRASC-C 2-RHRLPCI-A 2-RHRSC-A 2-RHRSC-C 2-RHRSPC-A 2-RHRASC-A
FI-51-2R603B	HEAT EXCHANGER DISCHARGE LINE FLOW INDICATOR	RHR	B	533	024	2-RHRSPC-D 2-RHRSPC-B 2-RHRSC-D 2-RHRSC-B 2-RHRLPCI-B 2-RHRASC-B 2-RHRASC-D
FI-51-2R603C	LOOP "C" DISCHARGE LINE FLOW INDICATOR	RHR	C	533	024	2-RHRLPCI-C
FI-51-2R603D	LOOP "D" DISCHARGE LINE FLOW INDICATOR	RHR	D	533	024	2-RHRLPCI-D
FI-55-1R600-1	PUMP DISCHARGE LINE FLOW INDICATOR	HPCI	B	533	024	1-HPCI
FI-55-2R600-1	PUMP DISCHARGE LINE FLOW INDICATOR	HPCI	B	533	024	2-HPCI

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
FIC-49-1R001	FLOW INDICATING CONTROLLER	RCIC	A	540	026	
FIC-49-1R600	FLOW INDICATING CONTROLLER	RCIC	A	533	024	
FIC-49-2R001	FLOW INDICATING CONTROLLER	RCIC	A	540	026	
FIC-49-2R600	FLOW INDICATING CONTROLLER	RCIC	A	533	024	
FIS-49-1N651	FLOW INDICATING SWITCH	RCIC	A	542	025	
FIS-49-2N651	FLOW INDICATING SWITCH	RCIC	A	542	025	
FIS-55-1N651	PUMP DISCHARGE LINE FLOW INDICATING SWITCH	HPCI	B	542	025	
FIS-55-2N651	PUMP DISCHARGE LINE FLOW INDICATING SWITCH	HPCI	B	542	025	
FISL-51-1N652A	FLOW INDICATING SWITCH	RHR	A	542	025	
FISL-51-1N652B	FLOW INDICATING SWITCH	RHR	B	542	025	
FISL-51-1N652C	FLOW INDICATING SWITCH	RHR	C	542	025	
FISL-51-1N652D	FLOW INDICATING SWITCH	RHR	D	542	025	
FISL-51-2N652A	FLOW INDICATING SWITCH	RHR	A	542	025	
FISL-51-2N652B	FLOW INDICATING SWITCH	RHR	B	542	025	
FISL-51-2N652C	FLOW INDICATING SWITCH	RHR	C	542	025	
FISL-51-2N652D	FLOW INDICATING SWITCH	RHR	D	542	025	
FS-49-1N659	FLOW SWITCH	RCIC	A	542	025	
FS-49-2N659	FLOW SWITCH	RCIC	A	542	025	
FS-55-1N659	FLOW SWITCH	HPCI	B	542	025	
FS-55-2N659	FLOW SWITCH	HPCI	B	542	025	
FT-49-2N051	FLOW TRANSMITTER	RCIC	A	279	065	
FT-51-1N001	FLOW TRANSMITTER	RHR	A	304W	044W	
FT-51-1N007A	FLOW TRANSMITTER	RHRSW	A	200	042	
FT-51-1N007B	FLOW TRANSMITTER	RHRSW	B	207	041	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
FT-51-1N015A	FLOW TRANSMITTER	RHR	A	304W	044W	
FT-51-1N015B	FLOW TRANSMITTER	RHR	B	304E	044E	
FT-51-1N015C	FLOW TRANSMITTER	RHR	C	304W	044W	
FT-51-1N015D	FLOW TRANSMITTER	RHR	D	304E	044E	
FT-51-1N052A	FLOW TRANSMITTER	RHR	A	304W	044W	
FT-51-1N052B	FLOW TRANSMITTER	RHR	B	304E	044E	
FT-51-1N052C	FLOW TRANSMITTER	RHR	C	304W	044W	
FT-51-1N052D	FLOW TRANSMITTER	RHR	D	304E	044E	
FT-51-2N001	FLOW TRANSMITTER	RHR	A	370W	067W	
FT-51-2N007A	FLOW TRANSMITTER	RHRSW	A	189	062	
FT-51-2N007B	FLOW TRANSMITTER	RHRSW	B	279	065	
FT-51-2N015A	FLOW TRANSMITTER	RHR	A	370W	067W	
FT-51-2N015B	FLOW TRANSMITTER	RHR	B	370E	067E	
FT-51-2N015C	FLOW TRANSMITTER	RHR	C	370W	067W	
FT-51-2N015D	FLOW TRANSMITTER	RHR	D	370E	067E	
FT-51-2N052A	FLOW TRANSMITTER	RHR	A	370W	067W	
FT-51-2N052B	FLOW TRANSMITTER	RHR	B	370E	067E	
FT-51-2N052C	FLOW TRANSMITTER	RHR	C	370W	067W	
FT-51-2N052D	FLOW TRANSMITTER	RHR	D	370E	067E	
FT-55-1N008	FLOW TRANSMITTER	HPCI	B	111	040	
FT-55-1N051	FLOW TRANSMITTER	HPCI	B	111	040	
FT-55-2N008	FLOW TRANSMITTER	HPCI	B	182	063	
FT-55-2N051	FLOW TRANSMITTER	HPCI	B	182	063	
FV-50-113	TURBINE CONTROL VALVE	RCIC	N/A	108	033	1-RCIC
FV-50-213	TURBINE CONTROL VALVE	RCIC	N/A	179	056	2-RCIC
FV-56-111	TURBINE CONTROL VALVE	HPCI	N/A	109	034	1-HPCI
FV-56-112	TURBINE STOP VALVE	HPCI	B	109	034	1-HPCI
FV-56-112	TURBINE STOP VALVE	HPCI	B	109	034	1-HPCITRIP
FV-56-211	TURBINE CONTROL VALVE	HPCI	N/A	180	057	2-HPCI
FV-56-212	TURBINE STOP VALVE	HPCI	B	180	057	2-HPCI
FV-56-212	TURBINE STOP VALVE	HPCI	B	180	057	2-HPCITRIP
FY-11-013A	ESW LOOP A SUPPLY	ESW	A	533	024	
FY-11-013B	ESW LOOP B SUPPLY	ESW	B	533	024	
FY-11-060B	ESW LOOP B SUPPLY	ESW	B	533	024	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
FY-49-1K001	SIGNAL ISOLATOR - FLOW	RCIC	A	540	026	
FY-49-1K013	SIGNAL ISOLATOR - FLOW	RCIC	A	540	026	
FY-49-1K014	SIGNAL ISOLATOR - FLOW	RCIC	A	540	026	
FY-49-1K015	SIGNAL ISOLATOR - FLOW	RCIC	A	540	026	
FY-49-1K601	SIGNAL ISOLATOR - FLOW	RCIC	A	533	024	
FY-49-2K001	SIGNAL ISOLATOR - FLOW	RCIC	A	540	026	
FY-49-2K013	SIGNAL ISOLATOR - FLOW	RCIC	A	540	026	
FY-49-2K014	SIGNAL ISOLATOR - FLOW	RCIC	A	540	026	
FY-49-2K015	SIGNAL ISOLATOR - FLOW	RCIC	A	540	026	
FY-49-2K601	SIGNAL ISOLATOR - FLOW	RCIC	A	533	024	
FY-51-114A	SQUARE ROOT CONVERTER	RHRSW	A	542	025	
FY-51-114B	SQUARE ROOT CONVERTER	RHRSW	B	542	025	
FY-51-1K600A	SQUARE ROOT CONVERTER	RHR	A	542	025	
FY-51-1K600B	SQUARE ROOT CONVERTER	RHR	B	542	025	
FY-51-1K600C	SQUARE ROOT CONVERTER	RHR	C	542	025	
FY-51-1K600D	SQUARE ROOT CONVERTER	RHR	D	542	025	
FY-51-1K011	SQUARE ROOT CONVERTER-RHR LOOP A FLOW	RHR	A	540	026	
FY-51-214A	SQUARE ROOT CONVERTER	RHRSW	A	542	025	
FY-51-214B	SQUARE ROOT CONVERTER	RHRSW	B	542	025	
FY-51-2K600A	SQUARE ROOT CONVERTER	RHR	A	542	025	
FY-51-2K600B	SQUARE ROOT CONVERTER	RHR	B	542	025	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
FY-51-2K600C	SQUARE ROOT CONVERTER	RHR	C	542	025	
FY-51-2K600D	SQUARE ROOT CONVERTER	RHR	D	542	025	
FY-55-1K601	SQUARE ROOT CONVERTER	HPCI	B	533	024	
FY-55-2K601	SQUARE ROOT CONVERTER	HPCI	B	533	024	
HD-81-041A	SYSTEM "A" OUTSIDE AIR INLET DAMPER	SPPV	A	1000	122	0-ESW-A 0-ESW-R 1-RHRSW-A 2-RHRSW-A
HD-81-041B	SYSTEM "B" OUTSIDE AIR INLET DAMPER	SPPV	B	1005	123	2-RHRSW-B 1-RHRSW-B 0-ESW-B
HD-81-041C	SYSTEM "C" OUTSIDE AIR INLET DAMPER	SPPV	C	1000	122	1-RHRSW-A 2-RHRSW-A 0-ESW-A
HD-81-041D	SYSTEM "D" OUTSIDE AIR INLET DAMPER	SPPV	D	1005	123	0-ESW-B 1-RHRSW-B 2-RHRSW-B
HD-81-042A	SYSTEM "A" RECIRCULATION AIR DAMPER	SPPV	A	1000	122	0-ESW-A 0-ESW-R 1-RHRSW-A 2-RHRSW-A
HD-81-042B	SYSTEM "B" RECIRCULATION AIR DAMPER	SPPV	B	1005	123	0-ESW-B 1-RHRSW-B 2-RHRSW-B
HD-81-042C	SYSTEM "C" RECIRCULATION AIR DAMPER	SPPV	C	1000	122	0-ESW-A 2-RHRSW-A 1-RHRSW-A
HD-81-042D	SYSTEM "D" RECIRCULATION AIR DAMPER	SPPV	D	1005	123	0-ESW-B 1-RHRSW-B 2-RHRSW-B
HV-11-011A	LOOP "A" DISCHARGE VALVE TO RHRSW RETURN HEADERS	ESW	A	202	075	0-ESW-A 0-ESW-R
HV-11-011B	LOOP "B" DISCHARGE VALVE TO RHRSW RETURN HEADERS	ESW	B	202	075	0-ESW-B
HV-11-015A	LOOP "A" DISCHARGE VALVE TO RHRSW RETURN HEADERS	ESW	C	202	075	0-ESW-A 0-ESW-R

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-11-015B	LOOP "B" DISCHARGE VALVE TO RHRSW RETURN HEADERS	ESW	D	202	075	0-ESW-B
HV-11-041	LOOP "A" EQUIPMENT HEADER RETURN VALVE	ESW	A	203	032	0-ESW-A 0-ESW-R
HV-11-042	HPCI COMPARTMENT UNIT COOLER RETURN VALVE	HPCI	B	109	034	1-HPCI
HV-11-043	SERVICE WATER INTERTIE VALVE FOR HPCI UNIT COOLER	ESW	B	109	034	0-ESW-B
HV-11-044	LOOP "B" EQUIPMENT HEADER RETURN VALVE	ESW	B	207	041	0-ESW-B
HV-11-046	LOOP "A" EQUIPMENT HEADER RETURN VALVE	ESW	A	281	055	0-ESW-R 0-ESW-A
HV-11-047	LOOP "B" EQUIPMENT HEADER RETURN VALVE	ESW	B	281	055	0-ESW-B
HV-11-048	SERVICE WATER INTERTIE VALVE FOR RCIC UNIT COOLER	ESW	A	279	065	0-ESW-A 0-ESW-R
HV-11-049	RCIC COMPARTMENT UNIT COOLER RETURN VALVE	RCIC	A	279	065	2-RCIC 0-ESW-R
HV-11-051A	SERVICE WATER INTERTIE VALVE FOR CONTROL STRUCTURE CHILLER	ESW		258	001	0-ESW-A 0-ESW-R
HV-11-051B	SERVICE WATER INTERTIE VALVE FOR CONTROL STRUCTURE CHILLER	ESW		263	001	0-ESW-B
HV-11-055A	SERVICE WATER INTERTIE FOR CONTROL STRUCTURE CHILLER	ESW		258	001	0-ESW-A

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-11-055B	SERVICE WATER INTERTIE VALVE FOR CONTROL STRUCTURE CHILLER	ESW		263	001	0-ESW-B
HV-11-071	LOOP "A" EQUIPMENT HEADER RETURN VALVE	ESW	C	203	032	0-ESW-A
HV-11-072	HPCI COMPARTMENT UNIT COOLER RETURN VALVE	HPCI	D	109	034	1-HPCI
HV-11-073	SERVICE WATER INTERTIE FOR HPCI UNIT COOLER	ESW	D	109	034	0-ESW-B
HV-11-074	LOOP "B" EQUIPMENT HEADER RETURN VALVE	ESW	D	207	041	0-ESW-B
HV-11-076	LOOP "A" EQUIPMENT HEADER RETURN VALVE	ESW	C	284	064	0-ESW-A
HV-11-077	LOOP "B" EQUIPMENT HEADER RETURN VALVE	ESW	D	281	055	0-ESW-B
HV-11-078	SERVICE WATER INTERTIE VALVE FOR RCIC UNIT COOLER	ESW	C	279	065	0-ESW-A
HV-11-079	RCIC COMPARTMENT UNIT COOLER RETURN VALVE	RCIC	C	279	065	2-RCIC
HV-11-103A	HPCI COMPARTMENT UNIT COOLER INLET VALVE	ESW	B	109	034	1-HPCI
HV-11-103B	HPCI COMPARTMENT UNIT COOLER INLET VALVE	ESW	B	109	034	1-HPCI
HV-11-104A	RHR COMPARTMENT UNIT COOLER "A" INLET VALVE	ESW	A	102	032	1-RHRLPCI-A 1-RHRSC-A 1-RHRASC-A 1-RHRSPC-A
HV-11-104B	RHR COMPARTMENT UNIT COOLER "B" INLET VALVE	ESW	B	103	031	1-RHRASC-B 1-RHRLPCI-B 1-RHRSC-B 1-RHRSPC-B
HV-11-104C	RHR COMPARTMENT UNIT COOLER "C" INLET VALVE	ESW	C	102	032	1-RHRASC-C 1-RHRSPC-C 1-RHRSC-C 1-RHRLPCI-C

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-11-104D	RHR COMPARTMENT UNIT COOLER "D" INLET VALVE	ESW	D	103	031	1-RHRASC-D 1-RHRLPCI-D 1-RHRSC-D 1-RHRSPC-D
HV-11-104E	RHR COMPARTMENT UNIT COOLER "E" INLET VALVE	ESW	A	102	032	1-RHRLPCI-A 1-RHRSC-A 1-RHRASC-A 1-RHRSPC-A
HV-11-104F	RHR COMPARTMENT UNIT COOLER "F" INLET VALVE	ESW	B	103	031	1-RHRASC-B 1-RHRLPCI-B 1-RHRSC-B 1-RHRSPC-B
HV-11-104G	RHR COMPARTMENT UNIT COOLER "G" INLET VALVE	ESW	C	102	032	1-RHRASC-C 1-RHRSPC-C 1-RHRLPCI-C 1-RHRSC-C
HV-11-104H	RHR COMPARTMENT UNIT COOLER "H" INLET VALVE	ESW	D	103	031	1-RHRASC-D 1-RHRLPCI-D 1-RHRSC-D 1-RHRSPC-D
HV-11-105	ESW TO TECW HX INTERTIE SHUTOFF VALVE	ESW	A	YARD	YARD	0-ESW-A 0-ESW-R
HV-11-106A	RCIC COMPARTMENT UNIT COOLER INLET VALVE	ESW	A	108	033	1-RCIC
HV-11-106B	RCIC COMPARTMENT UNIT COOLER INLET VALVE	ESW	A	108	033	1-RCIC
HV-11-107	ESW TO TECW HX INTERTIE SHUTOFF VALVE	ESW	C	YARD	YARD	0-ESW-A 0-ESW-R
HV-11-121	SERVICE WATER INTERTIE VALVE FOR LOOP "A" EQUIPMENT	ESW	A	203	032	0-ESW-R 0-ESW-A
HV-11-123	SERVICE WATER INTERTIE VALVE FOR LOOP "A" EQUIPMENT	ESW	C	203	032	0-ESW-A
HV-11-124	SHUT OFF VALVE FOR ESW TO RECW HEAT EXCHANGER INTERTIE LINE	ESW	B	207	041	0-ESW-B

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-11-125	SERVICE WATER INTERTIE VALVE FOR LOOP "B" EQUIPMENT	ESW	B	207	041	0-ESW-B
HV-11-126	SERVICE WATER INTERTIE VALVE FOR "B" LOOP EQUIPMENT	ESW	D	207	041	0-ESW-B
HV-11-128	SHUTOFF VALVE FOR ESW TO RHRSW HEAT EXCHANGER INTERTIE LINE	ESW	D	207	041	0-ESW-B
11-1131A	DIESEL GENERATOR "A" COOLING LOOP INLET VALVE	ESW	A	311A	079	
HV-11-131B	DIESEL GENERATOR "B" COOLING LOOP INLET VALVE	ESW	B	311B	081	0-ESW-A 0-ESW-R
11-1131C	DIESEL GENERATOR "C" COOLING LOOP INLET VALVE	ESW	C	311C	080	
HV-11-131D	DIESEL GENERATOR "D" COOLING LOOP INLET VALVE	ESW	D	311D	082	0-ESW-A 0-ESW-R
HV-11-132A	DIESEL GENERATOR "A" COOLING LOOP OUTLET VALVE	ESW	A	311A	079	
HV-11-132B	DIESEL GENERATOR "B" COOLING LOOP OUTLET VALVE	ESW	B	311B	081	
HV-11-132C	DIESEL GENERATOR "C" COOLING LOOP OUTLET VALVE	ESW	C	311C	080	
HV-11-132D	DIESEL GENERATOR "D" COOLING LOOP OUTLET VALVE	ESW	D	311D	082	
HV-11-133A	DIESEL GENERATOR "A" COOLING LOOP INLET VALVE	ESW	A	311A	079	0-ESW-B
11-1133B	DIESEL GENERATOR "B" COOLING LOOP INLET VALVE	ESW	B	311B	081	
HV-11-133C	DIESEL GENERATOR "C" COOLING LOOP INLET VALVE	ESW	C	311C	080	0-ESW-B
11-1133D	DIESEL GENERATOR "D" COOLING LOOP INLET VALVE	ESW	D	311D	082	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-11-134A	DIESEL GENERATOR "A" COOLING LOOP OUTLET VALVE	ESW	A	311A	079	
HV-11-134B	DIESEL GENERATOR "B" COOLING LOOP OUTLET VALVE	ESW	B	311B	081	
HV-11-134C	DIESEL GENERATOR "C" COOLING LOOP OUTLET VALVE	ESW	C	311C	080	
HV-11-134D	DIESEL GENERATOR "D" COOLING LOOP OUTLET VALVE	ESW	D	311D	082	
HV-11-203A	HPCI COMPARTMENT UNIT COOLER INLET VALVE	ESW	B	180	057	2-HPCI
HV-11-203B	HPCI COMPARTMENT UNIT COOLER INLET VALVE	ESW	B	180	057	2-HPCI
HV-11-204A	RHR COMPARTMENT UNIT COOLER "A" INLET VALVE	ESW	A	173	054	2-RHRASC-A 2-RHRLPCI-A 2-RHRSC-A 2-RHRSPC-A
HV-11-204B	RHR COMPARTMENT UNIT COOLER "B" INLET VALVE	ESW	B	174	055	2-RHRSC-B 2-RHRSPC-B 2-RHRASC-B 2-RHRLPCI-B
HV-11-204C	RHR COMPARTMENT UNIT COOLER "C" INLET VALVE	ESW	C	173	054	2-RHRASC-C 2-RHRLPCI-C 2-RHRSC-C 2-RHRSPC-C
HV-11-204D	RHR COMPARTMENT UNIT COOLER "D" INLET VALVE	ESW	D	174	055	2-RHRLPCI-D 2-RHRSC-D 2-RHRASC-D 2-RHRSPC-D
HV-11-204H	RHR COMPARTMENT UNIT COOLER "H" INLET VALVE	ESW	D	174	055	2-RHRASC-D 2-RHRLPCI-D 2-RHRSC-D 2-RHRSPC-D
HV-11-205	ESW TO TECW HX INTERTIE SHUTOFF VALVE	ESW	B	YARD	YARD	0-ESW-B
HV-11-206A	RCIC COMPARTMENT UNIT COOLER INLET VALVE	ESW	A	179	056	2-RCIC

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-11-206B	RCIC COMPARTMENT UNIT COOLER INLET VALVE	ESW	A	179	056	2-RCIC
HV-11-207	ESW TO TECW HX INTERTIE SHUTOFF VALVE	ESW	D	YARD	YARD	0-ESW-B
HV-11-221	SERVICE WATER INTERTIE VALVE FOR LOOP "A" EQUIPMENT	ESW	A	284	064	0-ESW-A 0-ESW-R
HV-11-223	SERVICE WATER INTERTIE VALVE FOR LOOP "A" EQUIPMENT	ESW	C	284	064	0-ESW-A
HV-11-224	SHUTOFF VALVE FOR ESW TO RECW HEAT EXCHANGER INTERTIE LINE	ESW	A	284	064	0-ESW-A 0-ESW-R
HV-11-225	SERVICE WATER INTERTIE VALVE FOR LOOP "B" EQUIPMENT	ESW	B	281	055	0-ESW-B
HV-11-226	SERVICE WATER INTERTIE VALVE FOR LOOP "B" EQUIPMENT	ESW	D	281	055	0-ESW-B
HV-11-228	SHUTOFF VALVE FOR ESW TO RECW HEAT EXCHANGER INTERTIE LINE	ESW	C	284	064	0-ESW-R 0-ESW-A
11-2231A	DIESEL GENERATOR "A" COOLING LOOP INLET VALVE	ESW	A	315A	083	
HV-11-231B	DIESEL GENERATOR "B" COOLING LOOP INLET VALVE	ESW	B	315B	085	0-ESW-R 0-ESW-A
11-2231C	DIESEL GENERATOR "C" COOLING LOOP INLET VALVE	ESW	C	315C	084	
HV-11-231D	DIESEL GENERATOR "D" COOLING LOOP INLET VALVE	ESW	D	315D	086	0-ESW-A 0-ESW-R
HV-11-232A	DIESEL GENERATOR "A" COOLING LOOP OUTLET VALVE	ESW	A	315A	083	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-11-232B	DIESEL GENERATOR "B" COOLING LOOP OUTLET VALVE	ESW	B	315B	085	
HV-11-232C	DIESEL GENERATOR "C" COOLING LOOP OUTLET VALVE	ESW	C	315C	084	
HV-11-232D	DIESEL GENERATOR "D" COOLING LOOP OUTLET VALVE	ESW	D	315D	086	
HV-11-233A	DIESEL GENERATOR "A" COOLING LOOP INLET VALVE	ESW	A	315A	083	0-ESW-B
11-2233B	DIESEL GENERATOR "B" COOLING LOOP INLET VALVE	ESW	B	315B	085	
HV-11-233C	DIESEL GENERATOR "C" COOLING LOOP INLET VALVE	ESW	C	315C	084	0-ESW-B
11-2233D	DIESEL GENERATOR "D" COOLING LOOP INLET VALVE	ESW	D	315D	086	
HV-11-234A	DIESEL GENERATOR "A" COOLING LOOP OUTLET VALVE	ESW	A	315A	083	
HV-11-234B	DIESEL GENERATOR "B" COOLING LOOP OUTLET VALVE	ESW	B	315B	085	
HV-11-234C	DIESEL GENERATOR "C" COOLING LOOP OUTLET VALVE	ESW	C	315C	084	
HV-11-234D	DIESEL GENERATOR "D" COOLING LOOP OUTLET VALVE	ESW	D	315D	086	
HV-12-003A	WET PIT SLUICE GATE	RHRSW	A	1000	122	0-ESW-A 0-ESW-R 1-RHRSW-A 2-RHRSW-A
HV-12-003B	WET PIT SLUICE GATE	RHRSW	B	1005	123	1-RHRSW-B 2-RHRSW-B 0-ESW-B

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-12-003C	WET PIT SLUICE GATE	RHRSW	C	1000	122	0-ESW-A 0-ESW-R 1-RHRSW-A 2-RHRSW-A
HV-12-003D	WET PIT SLUICE GATE	RHRSW	D	1005	123	0-ESW-B 1-RHRSW-B 2-RHRSW-B
HV-12-017A	LOOP "A" TO UNIT 2 COOLING TOWER CROSS-TIE VALVE	RHRSW	A	YARD	YARD	0-ESW-A 2-RHRSW-B 1-RHRSW-B 2-RHRSW-A 1-RHRSW-A 0-ESW-B 0-ESW-R
HV-12-017B	LOOP "B" TO UNIT 1 COOLING TOWER CROSS-TIE VALVE	RHRSW	B	YARD	YARD	0-ESW-A 2-RHRSW-B 1-RHRSW-B 2-RHRSW-A 0-ESW-B 1-RHRSW-A
HV-12-031A	SPRAY NETWORK BYPASS VALVE	RHRSW	A	1010	122	0-ESW-A 0-ESW-R 1-RHRSW-A 2-RHRSW-A
HV-12-031B	SPRAY NETWORK BYPASS VALVE	RHRSW	B	1015	123	0-ESW-B 1-RHRSW-B 2-RHRSW-B
HV-12-031C	SPRAY NETWORK BYPASS VALVE	RHRSW	C	1010	122	2-RHRSW-A 0-ESW-A 0-ESW-R 1-RHRSW-A
HV-12-031D	SPRAY NETWORK BYPASS VALVE	RHRSW	D	1015	123	2-RHRSW-B 1-RHRSW-B 0-ESW-B
HV-12-032A	SPRAY NETWORK INLET VALVE	RHRSW	A	1010	122	0-ESW-A 0-ESW-R 1-RHRSW-A 2-RHRSW-A
HV-12-032B	SPRAY NETWORK INLET VALVE	RHRSW	B	1015	123	0-ESW-B 1-RHRSW-B 2-RHRSW-B

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-12-032C	SPRAY NETWORK INLET VALVE	RHRSW	C	1010	122	0-ESW-A 0-ESW-R 1-RHRSW-A 2-RHRSW-A
HV-12-032D	SPRAY NETWORK INLET VALVE	RHRSW	D	1015	123	1-RHRSW-B 2-RHRSW-B 0-ESW-B
HV-12-034A	RHR SERVICE WATER SPRAY NOZZLE CROSS TIE VALVE	ESW	A	1010	122	2-RHRSW-B 0-ESW-B 0-ESW-R 1-RHRSW-A 2-RHRSW-A 1-RHRSW-B 0-ESW-A
HV-12-034B	RHR SERVICE WATER SPRAY NOZZLE CROSS TIE VALVE	ESW	B	1015	123	1-RHRSW-B 2-RHRSW-A 1-RHRSW-A 0-ESW-A 2-RHRSW-B 0-ESW-B
HV-12-111	RHRSW TO COOLING TOWER INTERTIE SHUTOFF VALVE	RHRSW	A	YARD	YARD	2-RHRSW-A 1-RHRSW-A 0-ESW-R 0-ESW-A
HV-12-113	RHRSW TO COOLING TOWER INTERTIE SHUTOFF VALVE	RHRSW	C	YARD	YARD	0-ESW-A 0-ESW-R 1-RHRSW-A 2-RHRSW-A
HV-12-211	RHRSW TO COOLING TOWER INTERTIE SHUTOFF VALVE	RHRSW	B	YARD	YARD	0-ESW-B 1-RHRSW-B 2-RHRSW-B
HV-12-213	RHRSW TO COOLING TOWER INTERTIE SHUTOFF VALVE	RHRSW	D	YARD	YARD	0-ESW-B 1-RHRSW-B 2-RHRSW-B
HV-41-109A	REACTOR FEEDWATER BYPASS VALVE	HI/LOW	A	518	046	1-HI/LOW 1-HPCI

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-41-109B	REACTOR FEEDWATER BYPASS VALVE	HI/LOW	B	518	046	1-HI/LOW 1-RCIC
HV-41-110	RX FW STARTUP FLUSHING SHUTOFF	HI/LOW	C	407	046	1-HI/LOW
HV-41-140	BYPASS LEAKAGE BARRIER VENT MAIN STEAM LINE BLEED DRAIN	HI/LOW	C	407	046	1-HI/LOW
HV-41-141	BYPASS LEAKAGE BARRIER VENT MAIN STEAM LINE BLEED DRAIN	HI/LOW	D	407	046	1-HI/LOW
HV-41-1F001	NUCLEAR BOILER SYS HEAD VENT VALVE	HI/LOW	0	400	030	1-HI/LOW
HV-41-1F002	NUCLEAR BOILER SYS HEAD VENT VALVE	HI/LOW	0	400	030	1-HI/LOW
HV-41-1F011A	FEEDWATER LINE "A" INBD MAINT ISO VALVE	HPCI	A	400	030	1-HPCI
HV-41-1F011B	FEEDWATER LINE "B" INBD MAINT ISO VALVE	RCIC	C	400	030	1-RCIC
HV-41-1F016	MAIN STEAM LINE DRAIN INBD PCIV	HI/LOW	A	400	030	1-HI/LOW
HV-41-1F019	MAIN STEAM LINE DRAIN OUTBD PCIV	HI/LOW	B	407	046	1-HI/LOW
HV-41-1F021	NUCLEAR BOILER SYSTEM MSL DRAIN TO COND.	HI/LOW	B	407	046	1-HI/LOW
HV-41-1F022A	A MAIN STEAM ISO VALVE INBD PCIV	HI/LOW	A,W	400	030	1-HI/LOW
HV-41-1F022B	B MAIN STEAM ISO VALVE INBD PCIV	HI/LOW	A,W	400	030	1-HI/LOW
HV-41-1F022C	C MAIN STEAM ISO VALVE INBD PCIV	HI/LOW	A,W	400	030	1-HI/LOW
HV-41-1F022D	D MAIN STEAM ISO VALVE INBD PCIV	HI/LOW	A,W	400	030	1-HI/LOW

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-41-1F028A	A MAIN STEAM ISO VALVE OUTBD PCIV	HI/LOW	B,X	407	046	1-HI/LOW
HV-41-1F028B	B MAIN STEAM ISO VALVE OUTBD PCIV	HI/LOW	B,X	407	046	1-HI/LOW
HV-41-1F028C	C MAIN STEAM ISO VALVE OUTBD PCIV	HI/LOW	B,X	407	046	1-HI/LOW
HV-41-1F028D	D MAIN STEAM ISO VALVE OUTBD PCIV	HI/LOW	B,X	407	046	1-HI/LOW
HV-41-1F084	MAIN STEAM LINE C INBD SAMPLE PCIV	HI/LOW	A	400	030	1-HI/LOW
HV-41-1F085	MAIN STEAM LINE C OUTBD SAMPLE PCIV	HI/LOW	B	510	047W	1-HI/LOW
HV-41-209A	REACTOR FEEDWATER BYPASS VALV	HI/LOW	A	587	069	2-HI/LOW 2-HPCI
HV-41-209B	REACTOR FEEDWATER BYPASS VALVE	HI/LOW	B	587	069	2-HI/LOW 2-RCIC
HV-41-210	RX FW STARTUP FLUSHING SHUTOFF	HI/LOW	C	480	069	2-HI/LOW
HV-41-240	BYPASS LEAKAGE BARRIER VENT MAIN STEAM LINE BLEED DRAIN	HI/LOW	C	480	069	2-HI/LOW
HV-41-241	BYPASS LEAKAGE BARRIER VENT MAIN STEAM LINE BLEED DRAIN	HI/LOW	D	480	069	2-HI/LOW
HV-41-2F001	NUCLEAR BOILER SYS HEAD VENT VALVE	HI/LOW	0	473	053	2-HI/LOW
HV-41-2F002	NUCLEAR BOILER SYS HEAD VENT VALVE	HI/LOW	0	473	053	2-HI/LOW
HV-41-2F011A	FEEDWATER LINE "A" INBD MAINT ISO VALVE	HPCI	A	473	053	2-HPCI
HV-41-2F011B	FEEDWATER LINE "B" INBD MAINT ISO VALVE	RCIC	C	473	053	2-RCIC
HV-41-2F016	MAIN STEAM LINE DRAIN INBD PCIV	HI/LOW	A	473	053	2-HI/LOW
HV-41-2F019	MAIN STEAM LINE DRAIN OUTBD PCIV	HI/LOW	B	480	069	2-HI/LOW

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-41-2F021	NUCLEAR BOILER SYSTEM MSL DRAIN TO COND.	HI/LOW	B	480	069	2-HI/LOW
HV-41-2F022A	A MAIN STEAM ISO VALVE INBD PCIV	HI/LOW	A,W	473	053	2-HI/LOW
HV-41-2F022B	B MAIN STEAM ISO VALVE INBD PCIV	HI/LOW	A,W	473	053	2-HI/LOW
HV-41-2F022C	C MAIN STEAM ISO VALVE INBD PCIV	HI/LOW	A,W	473	053	2-HI/LOW
HV-41-2F022D	D MAIN STEAM ISO VALVE INBD PCIV	HI/LOW	A,W	473	053	2-HI/LOW
HV-41-2F028A	A MAIN STEAM ISO VALVE OUTBD PCIV	HI/LOW	B,X	480	069	2-HI/LOW
HV-41-2F028B	B MAIN STEAM ISO VALVE OUTBD PCIV	HI/LOW	B,X	480	069	2-HI/LOW
HV-41-2F028C	C MAIN STEAM ISO VALVE OUTBD PCIV	HI/LOW	B,X	480	069	2-HI/LOW
HV-41-2F028D	D MAIN STEAM ISO VALVE OUTBD PCIV	HI/LOW	B,X	480	069	2-HI/LOW
HV-41-2F084	MAIN STEAM LINE C INBD SAMPLE PCIV	HI/LOW	A	473	053	2-HI/LOW
HV-41-2F085	MAIN STEAM LINE C OUTBD SAMPLE PCIV	HI/LOW	B	584	070E	2-HI/LOW
HV-43-1F019	RECIRC LOOP SAMPLE INBD PCIV	HI/LOW	A	400	030	1-HI/LOW
HV-43-1F020	RECIRC LOOP SAMPLE OUTBD PCIV	HI/LOW	B	501	047E	1-HI/LOW
HV-43-2F019	RECIRC LOOP SAMPLE INBD PCIV	HI/LOW	A	473	053	2-HI/LOW
HV-43-2F020	RECIRC LOOP SAMPLE OUTBD PCIV	HI/LOW	B	575	070W	2-HI/LOW
HV-44-1F031	RWCU RESTRICTED ORFICE BYPASS VALVE	HI/LOW	0	510	047W	1-HI/LOW
HV-44-1F034	RWCU DISCHARGE TO MAIN CONDENSER	HI/LOW	0	510	047W	1-HI/LOW
HV-44-1F035	RWCU DISCHARGE TO EQUIP DRAIN COLLECTION TANK	HI/LOW	0	510	047W	1-HI/LOW
HV-44-2F031	RWCU RESTRICTED ORFICE BYPASS VALVE	HI/LOW	0	584	070E	2-HI/LOW

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-44-2F034	RWCU DISCHARGE TO MAIN CONDENSER	HI/LOW	0	584	070E	2-HI/LOW
HV-44-2F035	RWCU DISCHARGE TO EQUIP DRAIN COLLECTION TANK	HI/LOW	0	584	070E	2-HI/LOW
HV-49-1F007	STEAM SUPPLY LINE INBD CTMT ISO VALVE	RCIC	C	400	030	1-RCIC 1-RCICTRIP
HV-49-1F008	STEAM SUPPLY LINE OUTBD CTMT ISO VALVE	RCIC	A	309E	043E	1-RCIC 1-RCICTRIP
HV-49-1F010	PUMP SUCTION VALVE FROM CONDENSATE STORAGE TANK	RCIC	A	108	033	1-RCIC
HV-49-1F012	RCIC PUMP DISCHARGE VALVE	RCIC	A	200	042	1-RCIC
HV-49-1F013	INJECTION VALVE TO FEEDWATER LINE	RCIC	A	518	046	1-RCIC
HV-49-1F019	MINIMUM FLOW BYPASS LINE CTMT ISO VALVE	RCIC	A	108	033	1-RCIC
HV-49-1F022	SHUTOFF VALVE IN DISCHARGE LINE TO CONDENSATE STORAGE TANK	RCIC	A	200	042	1-RCIC
HV-49-1F029	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER	RCIC	A	108	033	1-RCIC
HV-49-1F031	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER CTMT ISO VALVE	RCIC	A	108	033	1-RCIC
HV-49-1F060	TURBINE EXHAUST LINE CTMT ISO VALVE	RCIC	A	289	033	1-RCIC
HV-49-1F080	TURBINE EXHAUST LINE VACUUM BREAKER VALVE	RCIC	A	203	032	1-RCIC
HV-49-1F084	TURBINE EXHAUST LINE VACUUM BREAKER VALVE	RCIC	C	203	032	1-RCIC
HV-49-2F007	STEAM SUPPLY LINE INBD CTMT ISO VALVE	RCIC	C	473	053	2-RCIC 2-RCICTRIP
HV-49-2F008	STEAM SUPPLY LINE OUTBD CTMT ISO VALVE	RCIC	A	376E	066E	2-RCIC 2-RCICTRIP
HV-49-2F010	PUMP SUCTION VALVE FROM CONDENSATE STORAGE TANK	RCIC	A	179	056	2-RCIC

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-49-2F012	RCIC PUMP DISCHARGE VALVE	RCIC	A	279	065	2-RCIC
HV-49-2F013	INJECTION VALVE TO FEEDWATER LINE	RCIC	A	587	069	2-RCIC
HV-49-2F019	MINIMUM FLOW BYPASS LINE CTMT ISO VALVE	RCIC	A	281	055	2-RCIC
HV-49-2F022	SHUTOFF VALVE IN DISCHARGE LINE TO CONDENSATE STORAGE TANK	RCIC	A	279	065	2-RCIC
HV-49-2F029	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER	RCIC	A	179	056	2-RCIC
HV-49-2F031	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER CTMT ISO VALVE	RCIC	A	179	056	2-RCIC
HV-49-2F060	TURBINE EXHAUST LINE CTMT ISO VALVE	RCIC	A	285	056	2-RCIC
HV-49-2F080	TURBINE EXHAUST LINE VACUUM BREAKER VALVE	RCIC	A	281	055	2-RCIC
HV-49-2F084	TURBINE EXHAUST LINE VACUUM BREAKER VALVE	RCIC	C	281	055	2-RCIC
HV-50-112	TURBINE STOP VALVE	RCIC	A	108	033	1-RCIC 1-RCICTRIP
HV-50-1F045	STEAM SUPPLY LINE INLET VALVE TO TURBINE	RCIC	A	108	033	1-RCIC 1-RCICTRIP
HV-50-1F046	COOLING WATER LINE SHUTOFF VALVE	RCIC	A	108	033	1-RCIC
HV-50-212	TURBINE STOP VALVE	RCIC	A	179	056	2-RCIC 2-RCICTRIP
HV-50-2F045	STEAM SUPPLY LINE INLET VALVE TO TURBINE	RCIC	A	179	056	2-RCIC 2-RCICTRIP
HV-50-2F046	COOLING WATER LINE SHUTOFF VALVE	RCIC	A	179	056	2-RCIC
HV-51-105A	MINIMUM FLOW BYPASS LINE CTMT ISO VALVE	RHR	C	203	032	1-RHRASC-C 1-RHRLPCI-C 1-RHRSC-C 1-RHRSPC-C

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-51-105B	MINIMUM FLOW BYPASS LINE CTMT ISO VALVE	RHR	D	204	031	1-RHRLPCI-D 1-RHRSC-D 1-RHRASC-D 1-RHRSPC-D
HV-51-125A	SUPPRESSION POOL COOLING LINE CTMT ISO VALVE	RHR	A	304W	044W	1-RHRASC-A 1-RHRLPCI-A 1-RHRSPC-A 1-RHRSPC-C
HV-51-125B	SUPPRESSION POOL COOLING LINE CTMT ISO VALVE	RHR	B	304E	044E	1-RHRSC-B 1-RHRSPC-B 1-RHRASC-B 1-RHRLPCI-B 1-RHRSPC-D
HV-51-142A	1A LPCI INJECTION HEADER INBD PCIV	HI/LOW	A	400	030	1-HI/LOW
HV-51-142B	1B LPCI INJECTION HEADER INBD PCIV	HI/LOW	B	400	030	1-HI/LOW
HV-51-142C	1C LPCI INJECTION HEADER INBD PCIV	HI/LOW	C	400	030	1-HI/LOW
HV-51-142D	1D LPCI INJECTION HEADER INBD PCIV	HI/LOW	D	400	030	1-HI/LOW
HV-51-151A	1A RHR SHUTDOWN COOLING INJ HDR INLET PCIV	HI/LOW	A	400	030	1-HI/LOW
HV-51-151B	1B RHR SHUTDOWN COOLING INJ HDR INLET PCIV	HI/LOW	B	400	030	1-HI/LOW
HV-51-182A	RHR LOOP A/LOOP C INTERTIE ISO VALVE	RHR	A	309W	043W	1-RHRASC-A 1-RHRSPC-A 1-RHRSC-C 1-RHRSC-A 1-RHRLPCI-C 1-RHRASC-C 1-RHRSPC-C 1-RHRLPCI-A
HV-51-182B	RHR LOOP B/LOOP D INTERTIE ISO VALVE	RHR	B	309E	043E	1-RHRSC-B 1-RHRSPC-D 1-RHRSPC-B 1-RHRSC-D 1-RHRLPCI-D 1-RHRLPCI-B 1-RHRASC-B 1-RHRASC-D

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-51-1F003A	HEAT EXCHANGER SHELL SIDE DISCHARGE VALVE	RHR	A	203	032	1-RHRASC-A 1-RHRASC-C 1-RHRSC-A 1-RHRSC-C 1-RHRSPC-A 1-RHRSPC-C
HV-51-1F003B	HEAT EXCHANGER SHELL SIDE DISCHARGE VALVE	RHR	B	204	031	1-RHRASC-B 1-RHRSPC-D 1-RHRSPC-B 1-RHRASC-D 1-RHRSC-D 1-RHRSC-B
HV-51-1F004A	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER	RHR	A	102	032	1-RHRASC-A 1-RHRLPCI-A 1-RHRSC-A 1-RHRSPC-A
HV-51-1F004B	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER	RHR	B	103	031	1-RHRASC-B 1-RHRSPC-B 1-RHRLPCI-B 1-RHRSC-B
HV-51-1F004C	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER	RHR	C	102	032	1-RHRSPC-C 1-RHRASC-C 1-RHRLPCI-C 1-RHRSC-C
HV-51-1F004D	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER	RHR	D	103	031	1-RHRSPC-D 1-RHRSC-D 1-RHRASC-D 1-RHRLPCI-D
HV-51-1F006A	PUMP SUCTION VALVE FROM SHUTDOWN COOLING HEADER	RHR	A	102	032	1-RHRASC-A 1-RHRLPCI-A 1-RHRSC-A 1-RHRSC-B 1-RHRSC-C 1-RHRSC-D 1-RHRSPC-A
HV-51-1F006B	PUMP SUCTION VALVE FROM SHUTDOWN COOLING HEADER	RHR	B	103	031	1-RHRSC-B 1-RHRASC-B 1-RHRLPCI-B 1-RHRSC-C 1-RHRSC-D 1-RHRSPC-B 1-RHRSC-A
HV-51-1F007A	PUMP DISCHARGE MINIMUM FLOW BYPASS VALVE	RHR	A	102	032	1-RHRASC-A 1-RHRLPCI-A 1-RHRSC-A 1-RHRSPC-A

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-51-1F007B	PUMP DISCHARGE MINIMUM FLOW BYPASS VALVE	RHR	B	103	031	1-RHRASC-B 1-RHRSPC-B 1-RHRLPCI-B 1-RHRSC-B
HV-51-1F007C	PUMP DISCHARGE MINIMUM FLOW BYPASS VALVE	RHR	C	102	032	1-RHRASC-C 1-RHRLPCI-C 1-RHRSC-C 1-RHRSPC-C
HV-51-1F007D	PUMP DISCHARGE MINIMUM FLOW BYPASS VALVE	RHR	D	103	031	1-RHRSC-D 1-RHRSPC-D 1-RHRASC-D 1-RHRLPCI-D
HV-51-1F008	SHUTDOWN COOLING SUCTION LINE OUTBD CTMT ISO VALVE	RHR/ HILOW	B	309E 309W	043E 043W	1-HI/LOW 1-RHRSC-A 1-RHRSC-B 1-RHRSC-C 1-RHRSC-D
HV-51-1F009	SHUTDOWN COOLING SUCTION LINE INBD CTMT ISO VALVE	RHR/ HILOW	A	400	030	1-HI/LOW 1-RHRSC-A 1-RHRSC-B 1-RHRSC-C 1-RHRSC-D
HV-51-1F010A	PUMP DISCHARGE FULL FLOW BYPASS VALVE	RHR	C	304W	044W	1-RHRSPC-A 1-RHRSC-C 1-RHRLPCI-C 1-RHRASC-C 1-RHRSPC-C
HV-51-1F010B	PUMP DISCHARGE FULL FLOW BYPASS VALVE	RHR	D	304E	044E	1-RHRSPC-D 1-RHRASC-D 1-RHRLPCI-D 1-RHRSC-D 1-RHRSPC-B
HV-51-1F011A	HEAT EXCHANGER DISCH LINE TO SUPPRESSION CHAMBER SHUTOFF VALVE	RHR	N/A	203	032	1-RHRSPC-C 1-RHRSPC-A 1-RHRSC-C 1-RHRLPCI-A 1-RHRSC-A
HV-51-1F011B	HEAT EXCHANGER DISCH LINE TO SUPPRESSION CHAMBER SHUTOFF VALVE	RHR	N/A	204	031	1-RHRSC-D 1-RHRSPC-D 1-RHRLPCI-B 1-RHRASC-D 1-RHRASC-B 1-RHRSPC-B

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-51-1F014A	RHR HEAT EXCHANGER TUBE SIDE INLET VALVE	RHRSW	A	203	032	1-RHRSW-A
HV-51-1F014B	RHR HEAT EXCHANGER TUBE SIDE INLET VALVE	RHRSW	B	204	031	1-RHRSW-B
HV-51-1F015A	SHUTDOWN COOLING RETURN LINE OUTBD CTMT ISO VALVE	RHR	B	309W	043W	1-RHRASC-C 1-RHRSPC-C 1-RHRSPC-A 1-RHRSC-C 1-RHRLPCI-A 1-RHRASC-A 1-HI/LOW 1-RHRSC-A
HV-51-1F015B	SHUTDOWN COOLING RETURN LINE OUTBD CTMT ISO VALVE	RHR	B	309E 309W	043E 043W	1-RHRASC-B 1-RHRSC-D 1-RHRSPC-D 1-RHRSPC-B 1-HI/LOW 1-RHRASC-D 1-RHRLPCI-B 1-RHRSC-B
HV-51-1F016A	DRYWELL SPRAY LINE OUTBD CTMT ISO VALVE	RHR	A	501	047E	1-RHRASC-A 1-RHRASC-C 1-RHRLPCI-A 1-RHRSC-A 1-RHRSC-C 1-RHRSPC-A 1-RHRSPC-C
HV-51-1F016B	DRYWELL SPRAY LINE OUTBD CTMT ISO VALVE	RHR	B	523	047W	1-RHRSC-B 1-RHRSPC-D 1-RHRSC-D 1-RHRLPCI-B 1-RHRASC-D 1-RHRASC-B 1-RHRSPC-B
HV-51-1F017A	LPCI INJECTION LINE OUTBD CTMT ISO VALVE	RHR	A	510	047W	1-RHRLPCI-A 1-RHRSPC-C 1-RHRSPC-A 1-RHRSC-A 1-RHRASC-C 1-RHRASC-A 1-HI/LOW 1-RHRSC-C

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-51-1F017B	LPCI INJECTION LINE OUTBD CTMT ISO VALVE	RHR	B	599	047E	1-RHRLPCI-B 1-RHRSPC-B 1-RHRSPC-D 1-RHRSC-B 1-RHRASC-B 1-HI/LOW 1-RHRSC-D 1-RHRASC-D
HV-51-1F017C	LPCI INJECTION LINE OUTBD CTMT ISO VALVE	RHR	C	510	047W	1-RHRSPC-C 1-HI/LOW 1-RHRASC-C 1-RHRLPCI-C 1-RHRSC-C
HV-51-1F017D	LPCI INJECTION LINE OUTBD CTMT ISO VALVE	RHR	D	599	047E	1-RHRSPC-D 1-RHRSC-D 1-RHRLPCI-D 1-HI/LOW 1-RHRASC-D
HV-51-1F021A	DRYWELL SPRAY LINE INBD CTMT ISO VALVE	RHR	A	400	030	1-RHRASC-A 1-RHRASC-C 1-RHRLPCI-A 1-RHRSC-A 1-RHRSC-C 1-RHRSPC-A 1RHRSPC-C
HV-51-1F021B	DRYWELL SPRAY LINE INBD CTMT ISO VALVE	RHR	B	400	030	1-RHRASC-B 1-RHRASC-D 1-RHRLPCI-B 1-RHRSC-B 1-RHRSC-D 1-RHRSPC-B 1-RHRSPC-D
HV-51-1F024A	SUPPRESSION POOL COOLING LINE SHUTOFF VALVE	RHR	A	304W	044W	1-RHRSC-C 1-RHRASC-A 1-RHRSPC-A 1-RHRSPC-C 1-RHRSC-A 1-RHRASC-C 1-RHRLPCI-A
HV-51-1F024B	SUPPRESSION POOL COOLING LINE SHUTOFF VALVE	RHR	B	304E	044E	1-RHRASC-B 1-RHRASC-D 1-RHRLPCI-B 1-RHRSC-B 1-RHRSC-D 1-RHRSPC-B 1-RHRSPC-D

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-51-1F026A	HEAT EXCHANGER DISCHARGE LINE TO RCIC SHUTOFF VALVE	RHR	N/A	102	032	1-RHRSC-C 1-RHRSPC-A 1-RHRSC-A 1-RHRLPCI-A 1-RHRSPC-C
HV-51-1F026B	HEAT EXCHANGER DISCHARGE LINE TO RCIC SHUTOFF VALVE	RHR	N/A	103	031	1-RHRSPC-B 1-RHRSPC-D 1-RHRSC-D 1-RHRLPCI-B 1-RHRASC-D 1-RHRASC-B
HV-51-1F027A	SUPPRESSION POOL SPRAY LINE CTMT ISO VALVE	RHR	A	304W	044W	1-RHRASC-C 1-RHRLPCI-A 1-RHRSC-A 1-RHRSC-C 1-RHRASC-A
HV-51-1F027B	SUPPRESSION POOL SPRAY LINE CTMT ISO VALVE	RHR	B	304E	044E	1-RHRLPCI-B 1-RHRSC-B 1-RHRASC-D 1-RHRASC-B 1-RHRSC-D
HV-51-1F040	HEAT EXCHANGER DISCHARGE LINE TO RADWASTE SHUTOFF VALVE	RHR	A	203	032	1-RHRSPC-A 1-RHRSPC-C 1-RHRSC-C 1-RHRSC-A 1-RHRLPCI-A 1-RHRASC-C 1-RHRASC-A
HV-51-1F047A	HEAT EXCHANGER INLET VALVE FROM PUMP DISCHARGE	RHR	A	309W	043W	1-RHRSPC-C 1-RHRASC-C 1-RHRSC-A 1-RHRSC-C 1-RHRSPC-A 1-RHRASC-A
HV-51-1F047B	HEAT EXCHANGER INLET VALVE FROM PUMP DISCHARGE	RHR	B	309E	043E	1-RHRSPC-D 1-RHRSPC-B 1-RHRSC-D 1-RHRASC-B 1-RHRSC-B 1-RHRASC-D
HV-51-1F049	HEAT EXCHANGER DISCHARGE LINE TO RADWASTE SHUTOFF VALVE	RHR	B	203	032	1-RHRSC-C 1-RHRSPC-A 1-RHRSC-A 1-RHRLPCI-A 1-RHRASC-C 1-RHRASC-A 1-RHRSPC-C

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-51-1F068A	RHR HEAT EXCHANGER TUBE SIDE OUTLET VALVE	RHRSW	C	203	032	1-RHRSW-A
HV-51-1F068B	RHR HEAT EXCHANGER TUBE SIDE OUTLET VALVE	RHRSW	D	204	031	1-RHRSW-B
HV-51-1F073	RHRSW TO RHR INTERTIE LINE SHUTOFF VALVE	RHR	B	204	031	1-RHRSW-B
HV-51-1F068A	RHR HEAT EXCHANGER	RHRSW	C	203	032	1-RHRSW-A
HV-51-1F074	RHR SW CROSSTIE DRAIN VALVE	RHR	B	103	031	1-RHRSW-B
HV-51-1F075	RHRSW TO RHR INTERTIE SHUTOFF VALVE	RHR	B	204	031	1-RHRSW-B

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-51-205A	MINIMUM FLOW BYPASS LINE CTMT ISO VALVE	RHR	C	280	054	2-RHRSPC-C
HV-51-205A	MINIMUM FLOW BYPASS	RHR	C	280	054	2-RHRSC-C 2-RHRASC-C 2-RHRLPCI-C
HV-51-205B	MINIMUM FLOW BYPASS LINE CTMT ISO VALVE	RHR	D	281	055	2-RHRASC-D 2-RHRLPCI-D 2-RHRSC-D 2-RHRSPC-D
HV-51-225A	SUPPRESSION POOL COOLING LINE CTMT ISO VALVE	RHR	A	370W	067W	2-RHRASC-A 2-RHRLPCI-A 2-RHRSPC-A
HV-51-225A	SUPPRESSION POOL	RHR	A	370W	067W	2-RHRSPC-C
HV-51-225B	SUPPRESSION POOL COOLING LINE CTMT ISO VALVE	RHR	B	370E	067E	2-RHRASC-B 2-RHRSPC-D 2-RHRSPC-B 2-RHRLPCI-B 2-RHRSC-B
HV-51-242A	2A LPCI INJECTION HEADER INBD PCIV	HI/LOW	A	473	053	2-HI/LOW
HV-51-242B	2B LPCI INJECTION HEADER INBD PCIV	HI/LOW	B	473	053	2-HI/LOW
HV-51-242C	2C LPCI INJECTION HEADER INBD PCIV	HI/LOW	C	473	053	2-HI/LOW
HV-51-242D	2D LPCI INJECTION HEADER INBD PCIV	HI/LOW	D	473	053	2-HI/LOW
HV-51-251A	2A RHR SHUTDOWN COOLING INJ HDR INLET PCIV	HI/LOW	A	473	053	2-HI/LOW
HV-51-251B	2B RHR SHUTDOWN COOLING INJ HDR INLET PCIV	HI/LOW	B	473	053	2-HI/LOW
HV-51-282A	RHR LOOP A/LOOP C INTERTIE ISO VALVE	RHR	A	376W	066W	2-RHRASC-C 2-RHRSPC-A 2-RHRSC-C 2-RHRSC-A 2-RHRLPCI-A 2-RHRSPC-C 2-RHRASC-A 2-RHRLPCI-C

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-51-282B	RHR LOOP B/LOOP D INTERTIE ISO VALVE	RHR	B	376E	066E	2-RHRSC-B 2-RHRSPC-D 2-RHRSPC-B 2-RHRSC-D 2-RHRLPCI-D 2-RHRLPCI-B 2-RHRASC-B 2-RHRASC-D
HV-51-2F003A	HEAT EXCHANGER SHELL SIDE DISCHARGE VALVE	RHR	A	280	054	2-RHRASC-A 2-RHRASC-C 2-RHRSC-A 2-RHRSC-C 2-RHRSPC-A 2-RHRSPC-C
HV-51-2F003B	HEAT EXCHANGER SHELL SIDE DISCHARGE VALVE	RHR	B	281	055	2-RHRASC-B 2-RHRSPC-D 2-RHRSPC-B 2-RHRASC-D 2-RHRSC-B 2-RHRSC-D
HV-51-2F004A	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER	RHR	A	173	054	2-RHRASC-A 2-RHRLPCI-A 2-RHRSC-A 2-RHRSPC-A
HV-51-2F004B	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER	RHR	B	174	055	2-RHRASC-B 2-RHRLPCI-B 2-RHRSC-B 2-RHRSPC-B
HV-51-2F004C	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER	RHR	C	173	054	2-RHRSC-C 2-RHRSPC-C 2-RHRASC-C 2-RHRLPCI-C
HV-51-2F004D	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER	RHR	D	174	055	2-RHRLPCI-D 2-RHRSC-D 2-RHRSPC-D 2-RHRASC-D
HV-51-2F006A	PUMP SUCTION VALVE FROM SHUTDOWN COOLING HEADER	RHR	A	173	054	2-RHRLPCI-A 2-RHRSPC-A 2-RHRSC-D 2-RHRSC-C 2-RHRSC-A 2-RHRASC-A 2-RHRSC-B

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-51-2F006B	PUMP SUCTION VALVE FROM SHUTDOWN COOLING HEADER	RHR	B	174	055	2-RHRSC-A 2-RHRSC-D 2-RHRSPC-B 2-RHRASC-B 2-RHRSC-C 2-RHRLPCI-B 2-RHRSC-B
HV-51-2F007A	PUMP DISCHARGE MINIMUM FLOW BYPASS VALVE	RHR	A	173	054	2-RHRASC-A 2-RHRLPCI-A 2-RHRSC-A 2-RHRSPC-A
HV-51-2F007B	PUMP DISCHARGE MINIMUM FLOW BYPASS VALVE	RHR	B	174	055	2-RHRASC-B 2-RHRSPC-B 2-RHRLPCI-B 2-RHRSC-B
HV-51-2F007C	PUMP DISCHARGE MINIMUM FLOW BYPASS VALVE	RHR	C	173	054	2-RHRASC-C 2-RHRLPCI-C 2-RHRSC-C 2-RHRSPC-C
HV-51-2F007D	PUMP DISCHARGE MINIMUM FLOW BYPASS VALVE	RHR	D	174	055	2-RHRSC-D 2-RHRSPC-D 2-RHRASC-D 2-RHRLPCI-D
HV-51-2F008	SHUTDOWN COOLING SUCTION LINE OUTBD CTMT ISO VALVE	RHR/ HILOW	B	376E 376W	066E 066W	2-HI/LOW 2-RHRSC-A 2-RHRSC-B 2-RHRSC-C 2-RHRSC-D
HV-51-2F009	SHUTDOWN COOLING SUCTION LINE INBD CTMT ISO VALVE	RHR/ HILOW	A	473	053	2-HI/LOW 2-RHRSC-A 2-RHRSC-B 2-RHRSC-C 2-RHRSC-D
HV-51-2F010A	PUMP DISCHARGE FULL FLOW BYPASS VALVE	RHR	C	370W	067W	2-RHRSPC-C 2-RHRLPCI-C 2-RHRASC-C 2-RHRSPC-A 2-RHRSC-C
HV-51-2F010B	PUMP DISCHARGE FULL FLOW BYPASS VALVE	RHR	D	370E	067E	2-RHRSPC-D 2-RHRASC-D 2-RHRLPCI-D 2-RHRSC-D 2-RHRSPC-B
HV-51-2F011A	HEAT EXCHANGER DISCH LINE TO SUPPRESSION CHAMBER SHUTOFF VALVE	RHR	N/A	280	054	2-RHRSPC-C 2-RHRSPC-A 2-RHRSC-C 2-RHRLPCI-A 2-RHRSC-A

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-51-2F011B	HEAT EXCHANGER DISCH LINE TO SUPPRESSION CHAMBER SHUTOFF VALVE	RHR	N/A	281	055	2-RHRLPCI-B 2-RHRSPC-D 2-RHRSC-D 2-RHRASC-B 2-RHRASC-D 2-RHRSPC-B
HV-51-2F014A	RHR HEAT EXCHANGER TUBE SIDE INLET VALVE	RHRSW	A	280	054	2-RHRSW-A
HV-51-2F014B	RHR HEAT EXCHANGER TUBE SIDE INLET VALVE	RHRSW	B	281	055	2-RHRSW-B
HV-51-2F015A	SHUTDOWN COOLING RETURN LINE OUTBD CTMT ISO VALVE	RHR	B	376W	066W	2-RHRASC-C 2-RHRSPC-C 2-RHRSPC-A 2-RHRSC-C 2-RHRLPCI-A 2-RHRASC-A 2-HI/LOW 2-RHRSC-A
HV-51-2F015B	SHUTDOWN COOLING RETURN LINE OUTBD CTMT ISO VALVE	RHR	B	376E	066E	2-HI/LOW 2-RHRSPC-D 2-RHRSPC-B 2-RHRSC-D 2-RHRLPCI-B 2-RHRASC-B 2-RHRASC-D 2-RHRSC-B
HV-51-2F016A	DRYWELL SPRAY LINE OUTBD CTMT ISO VALVE	RHR	A	575	070W	2-RHRASC-A 2-RHRASC-C 2-RHRLPCI-A 2-RHRSC-A 2-RHRSC-C 2-RHRSPC-A 2-RHRSPC-C
HV-51-2F016B	DRYWELL SPRAY LINE OUTBD CTMT ISO VALVE	RHR	B	593	070E	2-RHRSC-B 2-RHRSPC-D 2-RHRSC-D 2-RHRLPCI-B 2-RHRASC-D 2-RHRASC-B 2-RHRSPC-B

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-51-2F017A	LPCI INJECTION LINE OUTBD CTMT ISO VALVE	RHR	A	589	070W	2-RHRLPCI-A 2-RHRSPC-C 2-RHRSPC-A 2-RHRSC-A 2-RHRASC-C 2-RHRASC-A 2-HI/LOW 2-RHRSC-C
HV-51-2F017B	LPCI INJECTION LINE OUTBD CTMT ISO VALVE	RHR	B	584	070E	2-RHRLPCI-B 2-RHRSPC-B 2-RHRSPC-D 2-RHRSC-B 2-RHRASC-B 2-HI/LOW 2-RHRSC-D 2-RHRASC-D
HV-51-2F017C	LPCI INJECTION LINE OUTBD CTMT ISO VALVE	RHR	C	589	070W	2-RHRSPC-C 2-HI/LOW 2-RHRASC-C 2-RHRLPCI-C 2-RHRSC-C
HV-51-2F017D	LPCI INJECTION LINE OUTBD CTMT ISO VALVE	RHR	D	584	070E	2-RHRSPC-D 2-RHRSC-D 2-RHRLPCI-D 2-HI/LOW 2-RHRASC-D
HV-51-2F021A	DRYWELL SPRAY LINE INBD CTMT ISO VALVE	RHR	A	473	053	2-RHRASC-A 2-RHRASC-C 2-RHRLPCI-A 2-RHRSC-A 2-RHRSC-C 2-RHRSPC-A 2-RHRSPC-C
HV-51-2F021B	DRYWELL SPRAY LINE INBD CTMT ISO VALVE	RHR	B	473	053	2-RHRASC-B 2-RHRASC-D 2-RHRLPCI-B 2-RHRSC-B 2-RHRSC-D 2-RHRSPC-B 2-RHRSPC-D
HV-51-2F024A	SUPPRESSION POOL COOLING LINE SHUTOFF VALVE	RHR	A	370W	067W	2-RHRSC-C 2-RHRASC-A 2-RHRSPC-A 2-RHRSPC-C 2-RHRSC-A 2-RHRASC-C 2-RHRLPCI-A

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-51-2F024B	SUPPRESSION POOL COOLING LINE SHUTOFF VALVE	RHR	B	370E	067E	2-RHRASC-B 2-RHRASC-D 2-RHRLPCI-B 2-RHRSC-B 2-RHRSC-D 2-RHRSPC-B 2-RHRSPC-D
HV-51-2F026A	HEAT EXCHANGER DISCHARGE LINE TO RCIC SHUTOFF VALVE	RHR	N/A	173	054	2-RHRSC-C 2-RHRSPC-A 2-RHRLPCI-A 2-RHRSPC-C 2-RHRSC-A
HV-51-2F026B	HEAT EXCHANGER DISCHARGE LINE TO RCIC SHUTOFF VALVE	RHR	N/A	174	055	2-RHRSPC-B 2-RHRSPC-D 2-RHRSC-D 2-RHRLPCI-B 2-RHRASC-D 2-RHRASC-B
HV-51-2F027A	SUPPRESSION POOL SPRAY LINE CTMT ISO VALVE	RHR	A	370W	067W	2-RHRSC-C 2-RHRASC-C 2-RHRLPCI-A 2-RHRSC-A 2-RHRASC-A
HV-51-2F027B	SUPPRESSION POOL SPRAY LINE CTMT ISO VALVE	RHR	B	370E	067E	2-RHRSC-B 2-RHRSC-D 2-RHRLPCI-B 2-RHRASC-B 2-RHRASC-D
HV-51-2F040	HEAT EXCHANGER DISCHARGE LINE TO RADWASTE SHUTOFF VALVE	RHR	A	280	054	2-RHRASC-A 2-RHRASC-C 2-RHRLPCI-A 2-RHRSC-A 2-RHRSC-C 2-RHRSPC-A 2-RHRSPC-C
HV-51-2F047A	HEAT EXCHANGER INLET VALVE FROM PUMP DISCHARGE	RHR	A	376W	066W	2-RHRSC-C 2-RHRSPC-A 2-RHRSPC-C 2-RHRSC-A 2-RHRASC-C 2-RHRASC-A
HV-51-2F047B	HEAT EXCHANGER INLET VALVE FROM PUMP DISCHARGE	RHR	B	376E	066E	2-RHRSPC-B 2-RHRSPC-D 2-RHRSC-D 2-RHRSC-B 2-RHRASC-D 2-RHRASC-B

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-51-2F049	HEAT EXCHANGER DISCHARGE LINE TO RADWASTE SHUTOFF VALVE	RHR	B	280	054	2-RHRASC-C 2-RHRLPCI-A 2-RHRSC-A 2-RHRSC-C 2-RHRSPC-A 2-RHRSPC-C 2-RHRASC-A
HV-51-2F068A	RHR HEAT EXCHANGER TUBE SIDE OUTLET VALVE	RHRSW	C	280	054	2-RHRSW-A
HV-51-2F068B	RHR HEAT EXCHANGER TUBE SIDE OUTLET VALVE	RHRSW	D	281	055	2-RHRSW-B
HV-51-2F073	RHRSW TO RHR INTERTIE LINE SHUTOFF VALVE	RHR	A	280	054	2-RHRSW-A
HV-51-2F074	RHR SW CROSS TIE DRAIN VALVE	RHR	A	173	054	2-RHRSW-A
HV-51-2F075	RHRSW TO RHR INTERTIE SHUTOFF VALVE	RHR	A	280	054	2-RHRSW-A
HV-52-139	CTMT ISO VALVE FOR LEVEL SENSING LINES	SPI	B	118	039	
HV-52-1F005	CORE SPRAY INBD ISO VALVE "A" LOOP	CS/ HILOW	A	523	047W	1-HI/LOW
HV-52-1F037	CORE SPRAY INBD ISO VALVE "B" LOOP	CS/ HPCI	B	523	047W	1-HPCI
HV-52-1F039A	1A LOOP CHECK EQUALIZING PCIV	HI/LOW	A	400	030	1-HI/LOW
HV-52-239	CTMT ISO VALVE FOR LEVEL SENSING LINES	SPI	B	189	062	
HV-52-2F005	CORE SPRAY INBD ISO VALVE "A" LOOP	CS/ HILOW	A	593	070E	2-HI/LOW
HV-52-2F037	CORE SPRAY INBD ISO VALVE "B" LOOP	CS/ HPCI	B	593	070E	2-HPCI
HV-52-2F039A	2A LOOP CHECK EQUALIZING PCIV	HI/LOW	A	473	053	2-HI/LOW
HV-55-120	CTMT ISO VALVE FOR LEVEL SENSING LINES	SPI	B	204	031	
HV-55-121	CTMT ISO VALVE FOR LEVEL SENSING LINES	SPI	B	204	031	
HV-55-124	CST TO SAFEGUARD SYSTEM ISOLATING VALVE (OUTLET)	HPCI RCIC	A	CST DIKED AREA	YARD	1-HPCI 1-RCIC
HV-55-125	CST TO SAFEGUARD SYSTEM ISOLATING VALVE (OUTLET)	HPCI RCIC	B	CST DIKED	YARD	1-HPCI 1-RCIC

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-55-126	CTMT ISO VALVE FOR LEVEL SENSING LINES	SPI	A	204	031	
HV-55-1F001	STEAM SUPPLY LINE INLET VALVE TO TURBINE	HPCI	B	109	034	1-HPCITRIP 1-HPCI
HV-55-1F002	STEAM SUPPLY LINE INBD CTMT ISO VALVE	HPCI	D	400	030	1-HPCITRIP 1-HPCI
HV-55-1F003	STEAM SUPPLY LINE OUTBD CTMT ISO VALVE	HPCI	B	309W	043W	1-HPCI 1-HPCITRIP
HV-55-1F004	PUMP SUCTION VALVE FROM CONDENSATE STORAGE TANK	HPCI	B	109	034	1-HPCI
HV-55-1F006	INJECTION VALVE TO CORE SPRAY LINE	HPCI	B	500	047E	1-HPCI
HV-55-1F007	PUMP DISCHARGE VALVE	HPCI	B	200	042	1-HPCI
HV-55-1F008	FULL FLOW TEST THROTTLE VALVE	HPCI	B	200	042	1-HPCI
HV-55-1F012	MINIMUM FLOW BYPASS LINE CTMT ISO VALVE	HPCI	B	288	034	1-HPCI
HV-55-1F041	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER	HPCI	B	109	034	1-HPCI
HV-55-1F042	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER CTMT ISO VALVE	HPCI	B	109	034	1-HPCI
HV-55-1F072	TURBINE EXHAUST LINE CTMT ISO VALVE	HPCI	B	288	034	1-HPCI
HV-55-1F093	TURBINE EXHAUST LINE VACUUM BREAKER VALVE	HPCI	B	200	042	1-HPCI
HV-55-1F095	TURBINE EXHAUST LINE VACUUM BREAKER VALVE	HPCI	D	288	034	1-HPCI
HV-55-1F105	HPCI PUMP DISCHARGE VALVE TO FEEDWATER	HPCI	B	518	046	1-HPCI
HV-55-220	CTMT ISO VALVE FOR LEVEL SENSING LINES	SPI	B	280	054	
HV-55-221	CTMT ISO VALVE FOR LEVEL SENSING LINES	SPI	B	280	054	
HV-55-224	CST TO SAFEGUARD SYSTEM ISOLATING VALVE (OUTLET)	HPCI RCIC	A	CST DIKED AREA	YARD	2-HPCI 2-RCIC
HV-55-225	CST TO SAFEGUARD SYSTEM ISOLATING VALVE (OUTLET)	HPCI RCIC	B	CST DIKED AREA	YARD	2-HPCI 2-RCIC

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-55-2F001	STEAM SUPPLY LINE INLET VALVE TO TURBINE	HPCI	B	180	057	2-HPCI 2-RCICTRIP
HV-55-2F002	STEAM SUPPLY LINE INBD CTMT ISO VALVE	HPCI	D	473	053	2-HPCI 2-HPCITRIP
HV-55-2F003	STEAM SUPPLY LINE OUTBD CTMT ISO VALVE	HPCI	B	376W	066W	2-HPCI 2-HPCITRIP
HV-55-2F004	PUMP SUCTION VALVE FROM CONDENSATE STORAGE TANK	HPCI	B	180	057	2-HPCI
HV-55-2F006	INJECTION VALVE TO CORE SPRAY LINE	HPCI	B	580E	070E	2-HPCI
HV-55-2F007	PUMP DISCHARGE VALVE	HPCI	B	279	065	2-HPCI
HV-55-2F008	FULL FLOW TEST THROTTLE VALVE	HPCI	B	279	065	2-HPCI
HV-55-2F012	MINIMUM FLOW BYPASS LINE CTMT ISO VALVE	HPCI	B	283	057	2-HPCI
HV-55-2F041	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER	HPCI	B	180	057	2-HPCI
HV-55-2F042	PUMP SUCTION VALVE FROM SUPPRESSION CHAMBER CTMT ISO VALVE	HPCI	B	180	057	2-HPCI
HV-55-2F072	TURBINE EXHAUST LINE CTMT ISO VALVE	HPCI	B	283	057	2-HPCI
HV-55-2F093	TURBINE EXHAUST LINE VACUUM BREAKER VALVE	HPCI	B	279	065	2-HPCI
HV-55-2F095	TURBINE EXHAUST LINE VACUUM BREAKER VALVE	HPCI	D	283	057	2-HPCI
HV-55-2F105	HPCI PUMP DISCHARGE VALVE TO FEEDWATER	HPCI	B	587	069	2-HPCI
HV-56-1F059	COOLING WATER LINE SHUTOFF VALVE	HPCI	B	109	034	1-HPCI
HV-56-2F059	COOLING WATER LINE SHUTOFF VALVE	HPCI	B	180	057	2-HPCI
HV-59-129B	INST GAS OUTBD PCIV	PCIG	B	306	043W	1-MSRV
HV-59-151A	CTMT ISO VALVE	PCIG	C	306	043W	1-RHRASC-C 1-RHRASC-D 1-RHRASC-B 1-RHRASC-A
HV-59-151B	CTMT ISO VALVE	PCIG	D	307	043E	1-RHRASC-B 1-RHRASC-C 1-RHRASC-D 1-RHRASC-A

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
HV-59-229B	INST GAS OUTBD PCIV	PCIG	B	375	066W	2-MSRV
HV-59-251A	CTMT ISO VALVE	PCIG	C	375	066W	2-RHRASC-D 2-RHRASC-C 2-RHRASC-A 2-RHRASC-B
HV-59-251B	CTMT ISO VALVE	PCIG	D	374	066E	2-RHRASC-A 2-RHRASC-B 2-RHRASC-C 2-RHRASC-D
HV-C41-1F020	MAIN STEAM LINE PRESSURE EQUALIZING VALVE	HI/LOW	A	407	046	1-HI/LOW
HV-C41-2F020	MAIN STEAM LINE PRESSURE EQUALIZING VALVE	HI/LOW	A	480	069	2-HI/LOW
HV-C44-1F033	RWCU DUMP FLOW CONTROL VALVE	HI/LOW	0	510	047W	1-HI/LOW
HV-C44-2F033	RWCU DUMP FLOW CONTROL VALVE	HI/LOW	0	584	070E	2-HI/LOW
HV-C51-1F048A	HEAT EXCHANGER BYPASS VALVE FROM PUMP DISCHARGE	RHR	A	309W	043W	1-RHRASC-A 1-RHRSPC-C 1-RHRSPC-A 1-RHRSC-C 1-RHRASC-C 1-RHRLPCI-A 1-RHRSC-A
HV-C51-1F048B	HEAT EXCHANGER BYPASS VALVE FROM PUMP DISCHARGE	RHR	B	309E	043E	1-RHRASC-B 1-RHRASC-D 1-RHRLPCI-B 1-RHRSC-B 1-RHRSC-D 1-RHRSPC-B 1-RHRSPC-D
HV-C51-2F048A	HEAT EXCHANGER BYPASS VALVE FROM PUMP DISCHARGE	RHR	A	376W	066W	2-RHRSC-C 2-RHRSPC-A 2-RHRSC-A 2-RHRSPC-C 2-RHRASC-C 2-RHRASC-A 2-RHRLPCI-A
HV-C51-2F048B	HEAT EXCHANGER BYPASS VALVE FROM PUMP DISCHARGE	RHR	B	376E	066E	2-RHRSC-D 2-RHRSPC-B 2-RHRSC-B 2-RHRLPCI-B 2-RHRASC-D 2-RHRASC-B 2-RHRSPC-D

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
KS-81-101A	CELL "A" TIMER	DGEV	A	311A	079	
KS-81-101B	CELL "B" TIMER	DGEV	B	311B	081	
KS-81-101C	CELL "C" TIMER	DGEV	C	311C	080	
KS-81-101D	CELL "D" TIMER	DGEV	D	311D	082	
KS-81-101E	CELL "A" TIMER	DGEV	A	311A	079	
KS-81-101F	CELL "B" TIMER	DGEV	B	311B	081	
KS-81-101G	CELL "C" TIMER	DGEV	C	311C	080	
KS-81-101H	CELL "D" TIMER	DGEV	D	311D	082	
KS-81-201A	CELL "A" TIMER	DGEV	A	315A	083	
KS-81-201B	CELL "B" TIMER	DGEV	B	315B	085	
KS-81-201C	CELL "C" TIMER	DGEV	C	315C	084	
KS-81-201D	CELL "D" TIMER	DGEV	D	315D	086	
KS-81-201E	CELL "A" TIMER	DGEV	A	315A	083	
KS-81-201F	CELL "B" TIMER	DGEV	B	315B	085	
KS-81-201G	CELL "C" TIMER	DGEV	C	315C	084	
KS-81-201H	CELL "D" TIMER	DGEV	D	315D	086	
LI-42-1R010	REACTOR VESSEL WATER LEVEL INDICATOR	RVI	A	540	026	1-RVI
LI-42-2R010	REACTOR VESSEL WATER LEVEL INDICATOR	RVI	A	540	026	2-RVI
LI-52-140A	SUPPRESSION POOL LEVEL INDICATOR	SPI	A	533	024	1-SPI
LI-52-140B	SUPPRESSION POOL LEVEL INDICATOR	SPI	B	533	024	1-SPI
LI-52-240A	SUPPRESSION POOL LEVEL INDICATOR	SPI	A	533	024	2-SPI
LI-52-240B	SUPPRESSION POOL LEVEL INDICATOR	SPI	B	533	024	2-SPI
LI-52-241	SUPPRESSION POOL LEVEL INDICATOR	SPI	A	540	026	2-SPI
LI-55-115-1	SUPPRESSION POOL LEVEL INDICATOR	SPI	0(A)	533	024	1-SPI
LI-55-115-2	SUPPRESSION POOL LEVEL INDICATOR	SPI	0(A)	540	026	1-SPI
LI-55-141	SUPPRESSION POOL LEVEL INDICATOR	SPI	A	540	026	1-SPI
LI-55-215-2	SUPPRESSION POOL LEVEL INDICATOR	SPI	0(A)	540	026	2-SPI
LI-55-217	SUPPRESSION POOL LEVEL INDICATOR	SPI	B	533	024	2-SPI

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
LIS-42-1N691A	LEVEL INDICATING SWITCH	CS	A	542	025	
LIS-42-1N691B	LEVEL INDICATING SWITCH	CS	B	542	025	
LIS-42-1N691C	LEVEL INDICATING SWITCH	CS	C	542	025	
LIS-42-1N691D	LEVEL INDICATING SWITCH	CS	D	542	025	
LIS-42-1N691E	LEVEL INDICATING SWITCH	CS	A	542	025	
LIS-42-1N691F	LEVEL INDICATING SWITCH	CS	B	542	025	
LIS-42-1N691G	LEVEL INDICATING SWITCH	CS	C	542	025	
LIS-42-1N691H	LEVEL INDICATING SWITCH	CS	D	542	025	
LIS-42-1N695A	LEVEL INDICATING SWITCH	ADS	A	542	025	
LIS-42-1N695C	LEVEL INDICATING SWITCH	ADS	C	542	025	
LIS-42-1N697A	LEVEL INDICATING SWITCH	RCIC	A	542	025	
LIS-42-1N697E	LEVEL INDICATING SWITCH	RCIC	A	542	025	
LIS-42-2N691A	LEVEL INDICATING SWITCH	CS	A	542	025	
LIS-42-2N691B	LEVEL INDICATING SWITCH	CS	B	542	025	
LIS-42-2N691C	LEVEL INDICATING SWITCH	CS	C	542	025	
LIS-42-2N691D	LEVEL INDICATING SWITCH	CS	D	542	025	
LIS-42-2N691E	LEVEL INDICATING SWITCH	CS	A	542	025	
LIS-42-2N691F	LEVEL INDICATING SWITCH	CS	B	542	025	
LIS-42-2N691G	LEVEL INDICATING SWITCH	CS	C	542	025	
LIS-42-2N691H	LEVEL INDICATING SWITCH	CS	D	542	025	
LIS-42-2N695A	LEVEL INDICATING SWITCH	ADS	A	542	025	
LIS-42-2N695C	LEVEL INDICATING SWITCH	ADS	C	542	025	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
LIS-42-2N697A	LEVEL INDICATING SWITCH	RCIC	A	542	025	
LIS-42-2N697E	LEVEL INDICATING SWITCH	RCIC	A	542	025	
LIS-49-1N635A	LEVEL INDICATING SWITCH	RCIC	A	542	025	
LIS-49-1N635E	LEVEL INDICATING SWITCH	RCIC	A	542	025	
LIS-49-2N635A	LEVEL INDICATING SWITCH	RCIC	A	542	025	
LIS-49-2N635E	LEVEL INDICATING SWITCH	RCIC	A	542	025	
LIS-55-1N661B	LEVEL INDICATING SWITCH	HPCI	B	542	025	
LIS-55-1N661F	LEVEL INDICATING SWITCH	HPCI	B	542	025	
LIS-55-1N662B	LEVEL INDICATING SWITCH	HPCI	B	542	025	
LIS-55-1N662F	LEVEL INDICATING SWITCH	HPCI	B	542	025	
LIS-55-2N661B	LEVEL INDICATING SWITCH	HPCI	B	542	025	
LIS-55-2N661F	LEVEL INDICATING SWITCH	HPCI	B	542	025	
LIS-55-2N662B	LEVEL INDICATING SWITCH	HPCI	B	542	025	
LIS-55-2N662F	LEVEL INDICATING SWITCH	HPCI	B	542	025	
LS-42-1N692A	LEVEL SWITCH	RCIC	A	542	025	
LS-42-1N692B	LEVEL SWITCH	HPCI	B	542	025	
LS-42-1N692D	LEVEL SWITCH	HPCI	D	542	025	
LS-42-1N692E	LEVEL SWITCH	RCIC	A	542	025	
LS-42-1N692F	LEVEL SWITCH	HPCI	B	542	025	
LS-42-1N692H	LEVEL SWITCH	HPCI	D	542	025	
LS-42-1N693A	LEVEL SWITCH	RCIC	A	542	025	
LS-42-1N693B	LEVEL SWITCH	HPCI	B	542	025	
LS-42-1N693D	LEVEL SWITCH	HPCI	D	542	025	
LS-42-1N693E	LEVEL SWITCH	RCIC	A	542	025	
LS-42-1N693F	LEVEL SWITCH	HPCI	B	542	025	
LS-42-1N693H	LEVEL SWITCH	HPCI	D	542	025	
LS-42-1N698A	LEVEL SWITCH	RCIC	A	542	025	
LS-42-1N698E	LEVEL SWITCH	RCIC	A	542	025	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
LS-42-2N692A	LEVEL SWITCH	RCIC	A	542	025	
LS-42-2N692B	LEVEL SWITCH	HPCI	B	542	025	
LS-42-2N692D	LEVEL SWITCH	HPCI	D	542	025	
LS-42-2N692E	LEVEL SWITCH	RCIC	A	542	025	
LS-42-2N692F	LEVEL SWITCH	HPCI	B	542	025	
LS-42-2N692H	LEVEL SWITCH	HPCI	D	542	025	
LS-42-2N693A	LEVEL SWITCH	RCIC	A	542	025	
LS-42-2N693B	LEVEL SWITCH	HPCI	B	542	025	
LS-42-2N693D	LEVEL SWITCH	HPCI	D	542	025	
LS-42-2N693E	LEVEL SWITCH	RCIC	A	542	025	
LS-42-2N693F	LEVEL SWITCH	HPCI	B	542	025	
LS-42-2N693H	LEVEL SWITCH	HPCI	D	542	025	
LS-42-2N698A	LEVEL SWITCH	RCIC	A	542	025	
LS-42-2N698E	LEVEL SWITCH	RCIC	A	542	025	
LSHL-20-121A	LEVEL SWITCH	SDG	A	312A	079	
LSHL-20-121B	LEVEL SWITCH	SDG	B	312B	081	
LSHL-20-121C	LEVEL SWITCH	SDG	C	312C	080	
LSHL-20-121D	LEVEL SWITCH	SDG	D	312D	082	
LSHL-20-122A	LEVEL SWITCH	SDG	A	312A	079	
LSHL-20-122B	LEVEL SWITCH	SDG	B	312B	081	
LSHL-20-122C	LEVEL SWITCH	SDG	C	312C	080	
LSHL-20-122D	LEVEL SWITCH	SDG	D	312D	082	
LSHL-20-221A	LEVEL SWITCH	SDG	A	316A	083	
LSHL-20-221B	LEVEL SWITCH	SDG	B	316B	085	
LSHL-20-221C	LEVEL SWITCH	SDG	C	316C	084	
LSHL-20-221D	LEVEL SWITCH	SDG	D	316D	086	
LSHL-20-222A	LEVEL SWITCH	SDG	A	316A	083	
LSHL-20-222B	LEVEL SWITCH	SDG	B	316B	085	
LSHL-20-222C	LEVEL SWITCH	SDG	C	316C	084	
LSHL-20-222D	LEVEL SWITCH	SDG	D	316D	086	
LSL-20-127A	LEVEL SWITCH	SDG	A	311A	079	
LSL-20-127B	LEVEL SWITCH	SDG	B	311B	081	
LSL-20-127C	LEVEL SWITCH	SDG	C	311C	080	
LSL-20-127D	LEVEL SWITCH	SDG	D	311D	082	
LSL-20-227A	LEVEL SWITCH	SDG	A	315A	083	
LSL-20-227B	LEVEL SWITCH	SDG	B	315B	085	
LSL-20-227C	LEVEL SWITCH	SDG	C	315C	084	
LSL-20-227D	LEVEL SWITCH	SDG	D	315D	086	
LT-42-115A	LEVEL TRANSMITTER	RVI	A	402W	045W	
LT-42-115B	LEVEL TRANSMITTER	RVI	B	402E	045E	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
LT-42-1N010	LEVEL TRANSMITTER	RVI	A	402W	045W	
LT-42-1N091A	LEVEL TRANSMITTER	CS	A	402W	045W	
LT-42-1N091B	LEVEL TRANSMITTER	HPCI	B	402E	045E	
LT-42-1N091C	LEVEL TRANSMITTER 402W	CS 045W	C	402E	045E	
LT-42-1N091D	LEVEL TRANSMITTER 402W	CS 045W	D	402E	045E	
LT-42-1N091E	LEVEL TRANSMITTER	CS	A	402W	045W	
LT-42-1N091F	LEVEL TRANSMITTER	HPCI	B	402E	045E	
LT-42-1N091G	LEVEL TRANSMITTER 402W	CS 045W	C	402E	045E	
LT-42-1N091H	LEVEL TRANSMITTER 402W	CS 045W	D	402E	045E	
LT-42-1N095A	LEVEL TRANSMITTER	ADS	A	402W	045W	
LT-42-1N095C	LEVEL TRANSMITTER 402W	ADS 045W	C	402E	045E	
LT-42-1N097A	LEVEL TRANSMITTER	RCIC	A	402W	045W	
LT-42-1N097E	LEVEL TRANSMITTER	RCIC	A	402W	045W	
LT-42-215A	LEVEL TRANSMITTER	RVI	A	475W	068W	
LT-42-215B	LEVEL TRANSMITTER	RVI	B	475E	068E	
LT-42-2N010	LEVEL TRANSMITTER	RVI	A	475W	068W	
LT-42-2N091A	LEVEL TRANSMITTER	CS	A	475W	068W	
LT-42-2N091B	LEVEL TRANSMITTER	CS	B	475E	068E	
LT-42-2N091C	LEVEL TRANSMITTER 475W	CS 068W	C	475E	068E	
LT-42-2N091D	LEVEL TRANSMITTER 475W	CS 068W	D	475E	068E	
LT-42-2N091E	LEVEL TRANSMITTER	CS	A	475W	068W	
LT-42-2N091F	LEVEL TRANSMITTER	CS	B	475E	068E	
LT-42-2N091G	LEVEL TRANSMITTER 475W	CS 068W	C	475E	068E	
LT-42-2N091H	LEVEL TRANSMITTER 475W	CS 068W	D	475E	068E	
LT-42-2N095A	LEVEL TRANSMITTER	ADS	A	475W	068W	
LT-42-2N095C	LEVEL TRANSMITTER 475W	ADS 068W	C	475E	068E	
LT-42-2N097A	LEVEL TRANSMITTER	RCIC	A	475W	068W	
LT-42-2N097E	LEVEL TRANSMITTER	RCIC	A	475W	068W	
LT-49-1N035A	LEVEL TRANSMITTER	RCIC	A	200	042	
LT-49-1N035E	LEVEL TRANSMITTER	RCIC	A	200	042	
LT-49-2N035A	LEVEL TRANSMITTER	RCIC	A	279	065	
LT-49-2N035E	LEVEL TRANSMITTER	RCIC	A	279	065	
LT-52-140A	LEVEL TRANSMITTER	SPI	A	118	039	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
LT-52-140B	LEVEL TRASNMITTER	SPI	B	118	039	
LT-52-240A	LEVEL TRANSMITTER	SPI	A	189	062	
LT-52-240B	LEVEL TRANSMITTER	SPI	B	189	062	
LT-52-241	LEVEL TRANSMITTER	SPI	A	189	062	
LT-55-115	LEVEL TRANSMITTER	SPI	0(A)	204	031	
LT-55-141	LEVEL TRANSMITTER	SPI	A	203	032	
LT-55-1N061B	LEVEL TRANSMITTER	HPCI	B	200	042	
LT-55-1N061F	LEVEL TRANSMITTER	HPCI	B	200	042	
LT-55-1N062B	LEVEL TRANSMITTER	HPCI	B	204	031	
LT-55-1N062F	LEVEL TRANSMITTER	HPCI	B	204	031	
LT-55-215	LEVEL TRANSMITTER	SPI	0(A)	280	054	
LT-55-217	LEVEL TRANSMITTER	SPI	B	174	055	
LT-55-2N061B	LEVEL TRANSMITTER	HPCI	B	279	065	
LT-55-2N061F	LEVEL TRANSMITTER	HPCI	B	279	065	
LT-55-2N062B	LEVEL TRANSMITTER	HPCI	B	280	054	
LT-55-2N062F	LEVEL TRANSMITTER	HPCI	B	280	054	
PCV-59-152A-1	PRESSURE CONTROL VALVE	PCIG	N/A	304W	044W	1-RHRASC-A 1-RHRASC-B 1-RHRASC-C 1-RHRASC-D
PCV-59-152A-2	PRESSURE CONTROL VALVE	PCIG	N/A	304W	044W	1-RHRASC-A 1-RHRASC-B 1-RHRASC-C 1-RHRASC-D
PCV-59-152A-3	PRESSURE CONTROL VALVE	PCIG	N/A	304W	044W	1-RHRASC-B 1-RHRASC-C 1-RHRASC-A 1-RHRASC-D
PCV-59-152B-1	PRESSURE CONTROL VALVE	PCIG	N/A	304E	044E	1-RHRASC-A 1-RHRASC-B 1-RHRASC-C 1-RHRASC-D
PCV-59-152B-2	PRESSURE CONTROL VALVE	PCIG	N/A	304E	044E	1-RHRASC-B 1-RHRASC-C 1-RHRASC-A 1-RHRASC-D
PCV-59-152B-3	PRESSURE CONTROL VALVE	PCIG	N/A	304E	044E	1-RHRASC-A 1-RHRASC-B 1-RHRASC-C 1-RHRASC-D
PCV-59-252A-1	PRESSURE CONTROL VALVE	PCIG	N/A	370E	067E	2-RHRASC-B 2-RHRASC-C 2-RHRASC-A 2-RHRASC-D

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PCV-59-252A-2	PRESSURE CONTROL VALVE	PCIG	N/A	370E	067E	2-RHRASC-A 2-RHRASC-B 2-RHRASC-C 2-RHRASC-D
PCV-59-252A-3	PRESSURE CONTROL VALVE	PCIG	N/A	370E	067E	2-RHRASC-B 2-RHRASC-C 2-RHRASC-A 2-RHRASC-D
PCV-59-252B-1	PRESSURE CONTROL VALVE	PCIG	N/A	370E	067E	2-RHRASC-A 2-RHRASC-B 2-RHRASC-C 2-RHRASC-D
PCV-59-252B-2	PRESSURE CONTROL VALVE	PCIG	N/A	370E	067E	2-RHRASC-A 2-RHRASC-D 2-RHRASC-B 2-RHRASC-C
PCV-59-252B-3	PRESSURE CONTROL VALVE	PCIG	N/A	370E	067E	2-RHRASC-A 2-RHRASC-B 2-RHRASC-C 2-RHRASC-D
PDIS-49-1N657A	PRESSURE DIFFERENTIAL INDICATING SWITCH	RCIC	A	542	025	
PDIS-49-1N657C	PRESSURE DIFFERENTIAL INDICATING SWITCH	RCIC	C	542	025	
PDIS-49-2N657A	PRESSURE DIFFERENTIAL INDICATING SWITCH	RCIC	A	542	025	
PDIS-49-2N657C	PRESSURE DIFFERENTIAL INDICATING SWITCH	RCIC	C	542	025	
PDIS-55-1N657B	STEAM SUPPLY LINE DIFFERENTIAL PRESURE INDICATING SWITCH	HPCI	B	542	025	
PDIS-55-1N657D	STEAM SUPPLY LINE DIFFERENTIAL PRESURE INDICATING SWITCH	HPCI	D	542	025	
PDIS-55-2N657B	STEAM SUPPLY LINE DIFFERENTIAL PRESURE INDICATING SWITCH	HPCI	B	533	024	
PDIS-55-2N657D	STEAM SUPPLY LINE DIFFERENTIAL PRESURE INDICATING SWITCH	HPCI	D	533	024	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PDISH-51-1N660A	PRESSURE DIFFERENTIAL INDICATING SWITCH	RHR	A	542	025	
PDISH-51-1N660B	PRESSURE DIFFERENTIAL INDICATING SWITCH	RHR	B	542	025	
PDISH-51-2N660A	PRESSURE DIFFERENTIAL INDICATING SWITCH	RHR	A	542	025	
PDISH-51-2N660B	PRESSURE DIFFERENTIAL INDICATING SWITCH	RHR	B	542	025	
PDISL-51-1N658A	PRESSURE DIFFERENTIAL INDICATING SWITCH	RHR	A	542	025	
PDISL-51-1N658B	PRESSURE DIFFERENTIAL INDICATING SWITCH	RHR	B	542	025	
PDISL-51-1N658C	PRESSURE DIFFERENTIAL INDICATING SWITCH	RHR	C	542	025	
PDISL-51-1N658D	PRESSURE DIFFERENTIAL INDICATING SWITCH	RHR	D	542	025	
PDISL-51-2N658A	PRESSURE DIFFERENTIAL INDICATING SWITCH	RHR	A	542	025	
PDISL-51-2N658B	PRESSURE DIFFERENTIAL INDICATING SWITCH	RHR	B	542	025	
PDISL-51-2N658C	PRESSURE DIFFERENTIAL INDICATING SWITCH	RHR	C	542	025	
PDISL-51-2N658D	PRESSURE DIFFERENTIAL INDICATING SWITCH	RHR	D	542	025	
PDS-49-1N660A	PRESSURE DIFFERENTIAL SWITCH	RCIC	A	542	025	
PDS-49-1N660C	PRESSURE DIFFERENTIAL SWITCH	RCIC	C	542	025	
PDS-49-2N660A	PRESSURE DIFFERENTIAL SWITCH	RCIC	A	542	025	
PDS-49-2N660C	PRESSURE DIFFERENTIAL SWITCH	RCIC	C	542	025	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PDS-55-1N660B	DIFFERENTIAL PRESSURE SWITCH	HPCI	B	542	025	
PDS-55-1N660D	DIFFERENTIAL PRESSURE SWITCH	HPCI	D	542	025	
PDS-55-2N660B	DIFFERENTIAL PRESSURE SWITCH	HPCI	B	542	025	
PDS-55-2N660D	PRESSURE DIFFERENTIAL SWITCH	HPCI	D	542	025	
PDS-59-106A	PRESSURE DIFFERENTIAL SWITCH	PCIG	C	402W	045W	
PDS-59-106B	PRESSURE DIFFERENTIAL SWITCH	PCIG	D	402E	045E	
PDS-59-206A	PRESSURE DIFFERENTIAL SWITCH	PCIG	C	475W	068W	
PDS-59-206B	PRESSURE DIFFERENTIAL SWITCH	PCIG	D	475E	068E	
PDSH-20-122A	PRESSURE DIFFERENTIAL SWITCH	SDG	A	311A	079	
PDSH-20-122B	PRESSURE DIFFERENTIAL SWITCH	SDG	B	311B	081	
PDSH-20-122C	PRESSURE DIFFERENTIAL SWITCH	SDG	C	311C	080	
PDSH-20-122D	PRESSURE DIFFERENTIAL SWITCH	SDG	D	311D	082	
PDSH-20-222A	PRESSURE DIFFERENTIAL SWITCH	SDG	A	315A	083	
PDSH-20-222B	PRESSURE DIFFERENTIAL SWITCH	SDG	B	315B	085	
PDSH-20-222C	PRESSURE DIFFERENTIAL SWITCH	SDG	C	315C	084	
PDSH-20-222D	PRESSURE DIFFERENTIAL SWITCH	SDG	D	315D	086	
PDSH-50-101	PRESSURE DIFFERENTIAL SWITCH	RCIC	A	108	033	
PDSH-50-201	PRESSURE DIFFERENTIAL SWITCH	RCIC	A	179	056	
PDSL-51-1N661A	PRESSURE DIFFERENTIAL SWITCH	RHR	A	542	025	
PDSL-51-1N661B	PRESSURE DIFFERENTIAL SWITCH	RHR	B	542	025	
PDSL-51-2N661A	PRESSURE DIFFERENTIAL SWITCH	RHR	A	542	025	
PDSL-51-2N661B	PRESSURE DIFFERENTIAL SWITCH	RHR	B	542	025	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PDT-49-1N057A	DIFFERENTIAL PRESSURE TRANSMITTER	RCIC	A	304E	044E	
PDT-49-1N057C	DIFFERENTIAL PRESSURE TRANSMITTER	RCIC	C	304E	044E	
PDT-49-2N057A	DIFFERENTIAL PRESSURE TRANSMITTER	RCIC	A	370E	067E	
PDT-49-2N057C	DIFFERENTIAL PRESSURE TRANSMITTER	RCIC	C	370E	067E	
PDT-51-1N058A	DIFFERENTIAL PRESSURE TRANSMITTER	RHR	A	402W	045W	
PDT-51-1N058B	DIFFERENTIAL PRESSURE TRANSMITTER	RHR	B	402E	045E	
PDT-51-1N058C	DIFFERENTIAL PRESSURE TRANSMITTER	RHR 402W	C 045W	402E	045E	
PDT-51-1N058D	DIFFERENTIAL PRESSURE TRANSMITTER	RHR 402W	D 045W	402E	045E	
PDT-51-1N060A	DIFFERENTIAL PRESSURE TRANSMITTER	RHR	A	506E	047E	
PDT-51-1N060B	DIFFERENTIAL PRESSURE TRANSMITTER	RHR	B	402E	045E	
PDT-51-2N058A	DIFFERENTIAL PRESSURE TRANSMITTER	RHR	A	475W	068W	
PDT-51-2N058B	DIFFERENTIAL PRESSURE TRANSMITTER	RHR	B	475E	068E	
PDT-51-2N058C	DIFFERENTIAL PRESSURE TRANSMITTER	RHR 475W	C 068W	475E	068E	
PDT-51-2N058D	DIFFERENTIAL PRESSURE TRANSMITTER	RHR 475W	D 068W	475E	068E	
PDT-51-2N060A	DIFFERENTIAL PRESSURE TRANSMITTER	RHR	A	580W	070W	
PDT-51-2N060B	DIFFERENTIAL PRESSURE TRANSMITTER	RHR	B	475E	068E	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PDT-55-1N057B	DIFFERENTIAL PRESSURE TRANSMITTER	HPCI	B	304W	044W	
PDT-55-1N057D	DIFFERENTIAL PRESSURE TRANSMITTER	HPCI	D	304W	044W	
PDT-55-2N057B	DIFFERENTIAL PRESSURE TRANSMITTER	HPCI	B	370W	067W	
PDT-55-2N057D	DIFFERENTIAL PRESSURE TRANSMITTER	HPCI	D	370W	067W	
PI-11-003A-1	ESW PUMP A DISCHARGE HEADER	ESW	A	533	024	0-ESW-A
PI-11-003A-2	ESW PUMP A DISCHARGE HEADER	ESW	A	540	026	0-ESW-R
PI-11-003B	ESW PUMP B DISCHARGE HEADER	ESW	B	533	024	0-ESW-B
PI-12-001A-1	RHRSW LOOP A HEADER PRESSURE	RHRSW	A	533	024	2-RHRSW-A 1-RHRSW-A
PI-12-001A-2	RHRSW LOOP A HEADER PRESSURE	RHRSW	A	540	026	1-RHRSW-A
PI-12-001A-3	RHRSW LOOP A HEADER PRESSURE	RHRSW	A	540	026	2-RHRSW-A
PI-12-001B	RHRSW LOOP B HEADER PRESSURE	RHRSW	B	533	024	1-RHRSW-B 2-RHRSW-B
PI-42-1R011	REACTOR VESSEL PRESSURE INDICATOR	RVI	A	540	026	1-RVI
PI-42-2R011	REACTOR VESSEL PRESSURE INDICATOR	RVI	A	540	026	2-RVI
PI-51-105A-1	RHR HEAT EXCHANGER 1AE205 SERVICE WATER DISCHARGE	RHRSW	A	533	024	1-RHRSW-A
PI-51-105A-2	RHR HEAT EXCHANGER 1AE205 SERVICE WATER DISCHARGE	RHRSW	A	540	026	1-RHRSW-A
PI-51-105B	RHR HEAT EXCHANGER 1BE205 SERVICE WATER DISCHARGE	RHRSW	B	533	024	1-RHRSW-B
PI-51-1R003A	RHR PUMP A DISCHARGE PRESSURE (LOCAL)	RHR	N/A	200	042	1-RHRSC-A 1-RHRSPC-A

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PI-51-205A-1	RHR HEAT EXCHANGER 2AE205 SERVICE WATER DISCHARGE	RHRSW	A	533	024	2-RHRSW-A
PI-51-205A-2	RHR HEAT EXCHANGER 2AE205 SERVICE WATER DISCHARGE	RHRSW	A	540	026	2-RHRSW-A
PI-51-205B	RHR HEAT EXCHANGER 2BE205 SERVICE WATER DISCHARGE	RHRSW	B	533	024	2-RHRSW-B
PI-55-1R601	PUMP DISCHARGE LINE PRESSURE INDICATOR	HPCI	B	533	024	1-HPCI
PI-55-2R601	PUMP DISCHARGE LINE PRESSURE INDICATOR	HPCI	B	533	024	2-HPCI
PIS-42-1N690A	PRESSURE INDICATING SWITCH	CS	A	542	025	
PIS-42-1N690B	PRESSURE INDICATING SWITCH	CS	B	542	025	
PIS-42-1N690C	PRESSURE INDICATING SWITCH	CS	C	542	025	
PIS-42-1N690D	PRESSURE INDICATING SWITCH	CS	D	542	025	
PIS-42-1N690E	PRESSURE INDICATING SWITCH	CS	A	542	025	
PIS-42-1N690F	PRESSURE INDICATING SWITCH	CS	B	542	025	
PIS-42-1N690G	PRESSURE INDICATING SWITCH	CS	C	542	025	
PIS-42-1N690H	PRESSURE INDICATING SWITCH	CS	D	542	025	
PIS-42-1N694A	PRESSURE INDICATING SWITCH	CS	A	542	025	
PIS-42-1N694B	PRESSURE INDICATING SWITCH	CS	B	542	025	
PIS-42-1N694C	PRESSURE INDICATING SWITCH	CS	C	542	025	
PIS-42-1N694D	PRESSURE INDICATING SWITCH	CS	D	542	025	
PIS-42-1N694E	PRESSURE INDICATING SWITCH	CS	A	542	025	
PIS-42-1N694F	PRESSURE INDICATING SWITCH	CS	B	542	025	
PIS-42-1N694G	PRESSURE INDICATING SWITCH	CS	C	542	025	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PIS-42-1N694H	PRESSURE INDICATING SWITCH	CS	D	542	025	
PIS-42-2N690A	PRESSURE INDICATING SWITCH	CS	A	542	025	
PIS-42-2N690B	PRESSURE INDICATING SWITCH	CS	B	542	025	
PIS-42-2N690C	PRESSURE INDICATING SWITCH	CS	C	542	025	
PIS-42-2N690D	PRESSURE INDICATING SWITCH	CS	D	542	025	
PIS-42-2N690E	PRESSURE INDICATING SWITCH	CS	A	542	025	
PIS-42-2N690F	PRESSURE INDICATING SWITCH	CS	B	542	025	
PIS-42-2N690G	PRESSURE INDICATING SWITCH	CS	C	542	025	
PIS-42-2N690H	PRESSURE INDICATING SWITCH	CS	D	542	025	
PIS-42-2N694A	PRESSURE INDICATING SWITCH	CS	A	542	025	
PIS-42-2N694B	PRESSURE INDICATING SWITCH	CS	B	542	025	
PIS-42-2N694C	PRESSURE INDICATING SWITCH	CS	C	542	025	
PIS-42-2N694D	PRESSURE INDICATING SWITCH	CS	D	542	025	
PIS-42-2N694E	PRESSURE INDICATING SWITCH	CS	A	542	025	
PIS-42-2N694F	PRESSURE INDICATING SWITCH	CS	B	542	025	
PIS-42-2N694G	PRESSURE INDICATING SWITCH	CS	C	542	025	
PIS-42-2N694H	PRESSURE INDICATING SWITCH	CS	D	542	025	
PIS-49-1N650	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-49-1N658A	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-49-1N658C	PRESSURE INDICATING SWITCH	RCIC	C	542	025	
PIS-49-1N658E	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-49-1N658G	PRESSURE INDICATING SWITCH	RCIC	C	542	025	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PIS-49-2N650	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-49-2N658A	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-49-2N658C	PRESSURE INDICATING SWITCH	RCIC	C	542	025	
PIS-49-2N658E	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-49-2N658G	PRESSURE INDICATING SWITCH	RCIC	C	542	025	
PIS-50-1N652	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-50-1N653	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-50-1N655A	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-50-1N655C	PRESSURE INDICATING SWITCH	RCIC	C	542	025	
PIS-50-1N655E	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-50-1N655G	PRESSURE INDICATING SWITCH	RCIC	C	542	025	
PIS-50-1N656A	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-50-1N656E	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-50-2N652	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-50-2N653	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-50-2N655A	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-50-2N655C	PRESSURE INDICATING SWITCH	RCIC	C	542	025	
PIS-50-2N655E	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-50-2N655G	PRESSURE INDICATING SWITCH	RCIC	C	542	025	
PIS-50-2N656A	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-50-2N656E	PRESSURE INDICATING SWITCH	RCIC	A	542	025	
PIS-51-1N655A	PRESSURE INDICATING SWITCH	ADS	A	542	025	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PIS-51-1N655C	PRESSURE INDICATING SWITCH	ADS	C	542	025	
PIS-51-1N655E	PRESSURE INDICATING SWITCH	ADS	A	542	025	
PIS-51-1N655G	PRESSURE INDICATING SWITCH	ADS	C	542	025	
PIS-51-1N656A	PRESSURE INDICATING SWITCH	ADS	A	542	025	
PIS-51-1N656C	PRESSURE INDICATING SWITCH	ADS	C	542	025	
PIS-51-1N656E	PRESSURE INDICATING SWITCH	ADS	A	542	025	
PIS-51-1N656G	PRESSURE INDICATING SWITCH	ADS	C	542	025	
PIS-51-2N655A	PRESSURE INDICATING SWITCH	ADS	A	542	025	
PIS-51-2N655C	PRESSURE INDICATING SWITCH	ADS	C	542	025	
PIS-51-2N655E	PRESSURE INDICATING SWITCH	ADS	A	542	025	
PIS-51-2N655G	PRESSURE INDICATING SWITCH	ADS	C	542	025	
PIS-51-2N656A	PRESSURE INDICATING SWITCH	ADS	A	542	025	
PIS-51-2N656C	PRESSURE INDICATING SWITCH	ADS	C	542	025	
PIS-51-2N656E	PRESSURE INDICATING SWITCH	ADS	A	542	025	
PIS-51-2N656G	PRESSURE INDICATING SWITCH	ADS	C	542	025	
PIS-52-1N655A	PRESSURE INDICATING SWITCH	ADS	A	542	025	
PIS-52-1N655C	PRESSURE INDICATING SWITCH	ADS	C	542	025	
PIS-52-1N655E	PRESSURE INDICATING SWITCH	ADS	A	542	025	
PIS-52-1N655G	PRESSURE INDICATING SWITCH	ADS	C	542	025	
PIS-52-2N655A	PRESSURE INDICATING SWITCH	ADS	A	542	025	
PIS-52-2N655C	PRESSURE INDICATING SWITCH	ADS	C	542	025	
PIS-52-2N655E	PRESSURE INDICATING SWITCH	ADS	A	542	025	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PIS-52-2N655G	PRESSURE INDICATING SWITCH	ADS	C	542	025	
PIS-55-1N650	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-55-1N658B	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-55-1N658D	PRESSURE DIFFERENTIAL INDICATING SWITCH	HPCI	D	542	025	
PIS-55-1N658F	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-55-1N658H	PRESSURE DIFFERENTIAL INDICATING SWITCH	HPCI	D	542	025	
PIS-55-2N650	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-55-2N658B	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-55-2N658D	PRESSURE INDICATING SWITCH	HPCI	D	542	025	
PIS-55-2N658F	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-55-2N658H	PRESSURE INDICATING SWITCH	HPCI	D	542	025	
PIS-56-1N652	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-56-1N653	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-56-1N655B	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-56-1N655D	PRESSURE INDICATING SWITCH	HPCI	D	542	025	
PIS-56-1N655F	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-56-1N655H	PRESSURE INDICATING SWITCH	HPCI	D	542	025	
PIS-56-1N656B	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-56-1N656F	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-56-2N652	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-56-2N653	PRESSURE INDICATING SWITCH	HPCI	B	542	025	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PIS-56-2N655B	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-56-2N655D	PRESSURE INDICATING SWITCH	HPCI	D	542	025	
PIS-56-2N655F	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-56-2N655H	PRESSURE INDICATING SWITCH	HPCI	D	542	025	
PIS-56-2N656B	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PIS-56-2N656F	PRESSURE INDICATING SWITCH	HPCI	B	542	025	
PISH-51-1N653A	PRESSURE INDICATING SWITCH	RHR	A	542	025	
PISH-51-1N653B	PRESSURE INDICATING SWITCH	RHR	B	542	025	
PISH-51-1N653C	PRESSURE INDICATING SWITCH	RHR	C	542	025	
PISH-51-1N653D	PRESSURE SWITCH INDICATING	RHR	D	542	025	
PISH-51-1N657	PRESSURE INDICATING SWITCH	RHR	B	542	025	
PISH-51-2N653A	PRESSURE INDICATING SWITCH	RHR	A	542	025	
PISH-51-2N653B	PRESSURE INDICATING SWITCH	RHR	B	542	025	
PISH-51-2N653C	PRESSURE INDICATING SWITCH	RHR	C	542	025	
PISH-51-2N657	PRESSURE INDICATING SWITCH	RHR	B	542	025	
PIT-51-105A	RHR HEAT EXCHANGER 1AE205 SERVICE WATER DISCHARGE	RHRSW	A	200	042	
PIT-51-105B	RHR HEAT EXCHANGER 1BE205 SERVICE WATER DISCHARGE	RHRSW	B	207	041	
PIT-51-205A	RHR HEAT EXCHANGER 2AE205 SERVICE WATER DISCHARGE	RHRSW	A	284	064	
PIT-51-205B	RHR HEAT EXCHANGER 2BE205 SERVICE WATER DISCHARGE	RHRSW	B	179	056	
PSH-12-004A	PRESSURE SWITCH - HIGH	RHRSW	A	1000	122	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PSH-12-004B	PRESSURE SWITCH - HIGH	RHRSW	B	1005	123	
PSH-12-004C	PRESSURE SWITCH - HIGH	RHRSW	A	1000	122	
PSH-12-004D	PRESSURE SWITCH - HIGH	RHRSW	B	1005	123	
PSL-11-002A	PRESSURE SWITCH - LOW	ESW	A	1000	122	
PSL-11-002B	PRESSURE SWITCH - LOW	ESW	B	1005	123	
PSL-11-002C	PRESSURE SWITCH - LOW	ESW	C	1000	122	
PSL-11-002D	PRESSURE SWITCH - LOW	ESW	D	1005	123	
PSL-12-001A	PRESSURE SWITCH - LOW	RHRSW	A	1000	122	
PSL-12-001B	PRESSURE SWITCH - LOW	RHRSW	B	1005	123	
PSL-12-001C	PRESSURE SWITCH - LOW	RHRSW	A	1000	122	
PSL-12-001D	PRESSURE SWITCH - LOW	RHRSW	B	1005	123	
PSL-12-102A	PRESSURE SWITCH - LOW	RHRSW	A	202	075	
PSL-12-102B	PRESSURE SWITCH - LOW	RHRSW	B	202	075	
PSL-12-202A	PRESSURE SWITCH - LOW	RHRSW	A	202	075	
PSL-12-202B	PRESSURE SWITCH - LOW	RHRSW	B	202	075	
PSL-42-101	PRESSURE SWITCH - LOW	RHR/ HILOW	B	402E	045E	
PSL-42-201	PRESSURE SWITCH - LOW	RHR/ HILOW	B	475E	068E	
PSL-50-101	PRESSURE SWITCH - LOW	RCIC	A	108	033	
PSL-50-201	PRESSURE SWITCH - LOW	RCIC	A	179	056	
PSL-51-1N654A	PRESSURE SWITCH - LOW	RHR	A	542	025	
PSL-51-1N654B	PRESSURE SWITCH - LOW	RHR	B	542	025	
PSL-51-1N654C	PRESSURE SWITCH - LOW	RHR	C	542	025	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PSL-51-1N654D	PRESSURE SWITCH - LOW	RHR	D	542	025	
PSL-51-2N653D	PRESSURE SWITCH - LOW	RHR	D	542	025	
PSL-51-2N654A	PRESSURE SWITCH - LOW	RHR	A	542	025	
PSL-51-2N654B	PRESSURE SWITCH - LOW	RHR	B	542	025	
PSL-51-2N654C	PRESSURE SWITCH - LOW	RHR	C	542	025	
PSL-51-2N654D	PRESSURE SWITCH - LOW	RHR	D	542	025	
PSV-41-1F013A	MAIN STEAM RELIEF VALVE "A"	MSRV	A	400	030	1-MSRV
PSV-41-1F013C	MAIN STEAM RELIEF VALVE "C"	MSRV	A	400	030	1-MSRV
PSV-41-1F013E	MAIN STEAM RELIEF VALVE "E" (ADS)	ADS	A,C	400	030	1-ADS
PSV-41-1F013H	MAIN STEAM RELIEF VALVE "H" (ADS)	ADS	A,C	400	030	1-ADS
PSV-41-1F013K	MAIN STEAM RELIEF VALVE "K" (ADS)	ADS	A,C	400	030	1-ADS
PSV-41-1F013M	MAIN STEAM RELIEF VALVE "M" (ADS)	ADS	A,C	400	030	1-ADS
PSV-41-1F013N	MAIN STEAM RELIEF VALVE "N"	MSRV	A	400	030	1-MSRV
PSV-41-1F013S	MAIN STEAM RELIEF VALVE "S" (ADS)	ADS	A,C	400	030	1-ADS
PSV-41-2F013A	MAIN STEAM RELIEF VALVE "A"	MSRV	A	473	053	2-MSRV
PSV-41-2F013C	MAIN STEAM RELIEF VALVE "C"	MSRV	A	473	053	2-MSRV
PSV-41-2F013E	MAIN STEAM RELIEF VALVE "E" (ADS)	ADS	A,C	473	053	2-ADS
PSV-41-2F013H	MAIN STEAM RELIEF VALVE "H" (ADS)	ADS	A,C	473	053	2-ADS
PSV-41-2F013K	MAIN STEAM RELIEF VALVE "K" (ADS)	ADS	A,C	473	053	2-ADS
PSV-41-2F013M	MAIN STEAM RELIEF VALVE "M" (ADS)	ADS	A,C	473	053	2-ADS
PSV-41-2F013N	MAIN STEAM RELIEF VALVE "N"	MSRV	A	473	053	2-MSRV
PSV-41-2F013S	MAIN STEAM RELIEF VALVE "S" (ADS)	ADS	A,C	473	053	2-ADS

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PT-11-003A	ESW PUMP A DISCHARGE HEADER	ESW	A	1011	122	
PT-11-003B	ESW PUMP B DISCHARGE HEADER	ESW	B	1016	123	
PT-12-001A	RHRSW LOOP A HEADER PRESSURE	RHRSW	A	1011	122	
PT-12-001B	RHRSW LOOP B HEADER PRESSURE	RHRSW	B	1016	123	
PT-42-103A	PRESSURE TRANSMITTER	RVI	A	402W	045W	
PT-42-103B	PRESSURE TRANSMITTER	RVI	B	402E	045E	
PT-42-1N006	PRESSURE TRANSMITTER	RVI	A	402W	045W	
PT-42-1N090A	PRESSURE TRANSMITTER	CS	A	402W	045W	
PT-42-1N090B	PRESSURE TRANSMITTER	CS	B	402E	045E	
PT-42-1N090C	PRESSURE TRANSMITTER	CS	C	402E 402W	045E 045W	
PT-42-1N090D	PRESSURE TRANSMITTER	CS	D	402E 402W	045E 045W	
PT-42-1N090E	PRESSURE TRANSMITTER	CS	A	402W	045W	
PT-42-1N090F	PRESSURE TRANSMITTER	CS	B	402E	045E	
PT-42-1N090G	PRESSURE TRANSMITTER	CS	C	402E 402W	045E 045W	
PT-42-1N090H	PRESSURE TRANSMITTER	CS	D	402E 402W	045E 045W	
PT-42-1N094A	PRESSURE TRANSMITTER	CS	A	402W	045W	
PT-42-1N094B	PRESSURE TRANSMITTER	CS	B	402E	045E	
PT-42-1N094C	PRESSURE TRANSMITTER	CS	C	402E 402W	045E 045W	
PT-42-1N094D	PRESSURE TRANSMITTER	CS	D	402E 402W	045E 045W	
PT-42-1N094E	PRESSURE TRANSMITTER	CS	A	402W	045W	
PT-42-1N094F	PRESSURE TRANSMITTER	CS	B	402E	045E	
PT-42-1N094G	PRESSURE TRANSMITTER	CS	C	402E 402W	045E 045W	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PT-42-1N094H	PRESSURE TRANSMITTER	CS	D	402E 402W	045E 045W	
PT-42-203A	PRESSURE TRANSMITTER	RVI	A	475W	068W	
PT-42-203B	PRESSURE TRANSMITTER	RVI	B	475E	068E	
PT-42-2N006	PRESSURE TRANSMITTER	RVI	A	475W	068W	
PT-42-2N090A	PRESSURE TRANSMITTER	CS	A	475W	068W	
PT-42-2N090B	PRESSURE TRANSMITTER	CS	B	475E	068E	
PT-42-2N090C	PRESSURE TRANSMITTER	CS	C	475E 475W	068E 068W	
PT-42-2N090D	PRESSURE TRANSMITTER	CS	D	475E 475W	068E 068W	
PT-42-2N090E	PRESSURE TRANSMITTER	CS	A	475W	068W	
PT-42-2N090F	PRESSURE TRANSMITTER	CS	B	475E	068E	
PT-42-2N090G	PRESSURE TRANSMITTER	CS	C	475E 475W	068E 068W	
PT-42-2N090H	PRESSURE TRANSMITTER	CS	D	475E 475W	068E 068W	
PT-42-2N094A	PRESSURE TRANSMITTER	CS	A	475W	068W	
PT-42-2N094B	PRESSURE TRANSMITTER	CS	B	475E	068E	
PT-42-2N094C	PRESSURE TRANSMITTER	CS	C	475E 475W	068E 068W	
PT-42-2N094D	PRESSURE TRANSMITTER	CS	D	475E 475W	068E 068W	
PT-42-2N094E	PRESSURE TRANSMITTER	CS	A	475W	068W	
PT-42-2N094F	PRESSURE TRANSMITTER	CS	B	475E	068E	
PT-42-2N094G	PRESSURE TRANSMITTER	CS	C	475E 475W	068E 068W	
PT-42-2N094H	PRESSURE TRANSMITTER	CS	D	475E 475W	068E 068W	
PT-49-1N050	PRESSURE TRANSMITTER	RCIC	A	200	042	
PT-49-1N058A	PRESSURE TRANSMITTER	RCIC	A	304E	044E	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PT-49-1N058C	PRESSURE TRANSMITTER	RCIC	C	304E	044E	
PT-49-1N058E	PRESSURE TRANSMITTER	RCIC	A	304E	044E	
PT-49-1N058G	PRESSURE TRANSMITTER	RCIC	C	304E	044E	
PT-49-2N050	PRESSURE TRANSMITTER	RCIC	A	279	065	
PT-49-2N058A	PRESSURE TRANSMITTER	RCIC	A	370E	067E	
PT-49-2N058C	PRESSURE TRANSMITTER	RCIC	C	370E	067E	
PT-49-2N058E	PRESSURE TRANSMITTER	RCIC	A	370E	067E	
PT-49-2N058G	PRESSURE TRANSMITTER	RCIC	C	370E	067E	
PT-50-1N052	PRESSURE TRANSMITTER	RCIC	A	108	033	
PT-50-1N053	PRESSURE TRANSMITTER	RCIC	A	108	033	
PT-50-1N055A	PRESSURE TRANSMITTER	RCIC	A	200	042	
PT-50-1N055C	PRESSURE TRANSMITTER	RCIC	C	108	033	
PT-50-1N055E	PRESSURE TRANSMITTER	RCIC	A	200	042	
PT-50-1N055G	PRESSURE TRANSMITTER	RCIC	C	108	033	
PT-50-1N056A	PRESSURE TRANSMITTER	RCIC	A	200	042	
PT-50-1N056E	PRESSURE TRANSMITTER	RCIC	A	200	042	
PT-50-2N052	PRESSURE TRANSMITTER	RCIC	A	179	056	
PT-50-2N053	PRESSURE TRANSMITTER	RCIC	A	179	056	
PT-50-2N055A	PRESSURE TRANSMITTER	RCIC	A	279	065	
PT-50-2N055C	PRESSURE TRANSMITTER	RCIC	C	179	056	
PT-50-2N055E	PRESSURE TRANSMITTER	RCIC	A	279	065	
PT-50-2N055G	PRESSURE TRANSMITTER	RCIC	C	179	056	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PT-50-2N056A	PRESSURE TRANSMITTER	RCIC	A	279	065	
PT-50-2N056E	PRESSURE TRANSMITTER	RCIC	A	279	065	
PT-51-1N053A	PRESSURE TRANSMITTER	RHR	A	200	042	
PT-51-1N053B	PRESSURE TRANSMITTER	RHR	B	118	039	
PT-51-1N053C	PRESSURE TRANSMITTER	RHR	C	200	042	
PT-51-1N053D	PRESSURE TRANSMITTER	RHR	D	118	039	
PT-51-1N055A	PRESSURE TRANSMITTER	ADS	A	200	042	
PT-51-1N055C	PRESSURE TRANSMITTER	ADS	C	118	039	
PT-51-1N055E	PRESSURE TRANSMITTER	ADS	A	200	042	
PT-51-1N055G	PRESSURE TRANSMITTER	ADS	C	118	039	
PT-51-1N056A	PRESSURE TRANSMITTER	ADS	A	200	042	
PT-51-1N056C	PRESSURE TRANSMITTER	ADS	C	118	039	
PT-51-1N056E	PRESSURE TRANSMITTER	ADS	A	200	042	
PT-51-1N056G	PRESSURE TRANSMITTER	ADS	C	118	039	
PT-51-1N057	PRESSURE TRANSMITTER	RHR	B	304E	044E	
PT-51-2N053A	PRESSURE TRANSMITTER	RHR	A	189	062	
PT-51-2N053B	PRESSURE TRANSMITTER	RHR	B	279	065	
PT-51-2N053C	PRESSURE TRANSMITTER	RHR	C	189	062	
PT-51-2N053D	PRESSURE TRANSMITTER	RHR	D	279	065	
PT-51-2N055A	PRESSURE TRANSMITTER	ADS	A	189	062	
PT-51-2N055C	PRESSURE TRANSMITTER	ADS	C	279	065	
PT-51-2N055E	PRESSURE TRANSMITTER	ADS	A	189	062	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PT-51-2N055G	PRESSURE TRANSMITTER	ADS	C	279	065	
PT-51-2N056A	PRESSURE TRANSMITTER	ADS	A	189	062	
PT-51-2N056C	PRESSURE TRANSMITTER	ADS	C	279	065	
PT-51-2N056E	PRESSURE TRANSMITTER	ADS	A	189	062	
PT-51-2N056G	PRESSURE TRANSMITTER	ADS	C	279	065	
PT-51-2N057	PRESSURE TRANSMITTER	RHR	B	370W	067W	
PT-52-1N055A	PRESSURE TRANSMITTER	ADS	A	110	035	
PT-52-1N055C	PRESSURE TRANSMITTER	ADS	C	117	038	
PT-52-1N055E	PRESSURE TRANSMITTER	ADS	A	113	036	
PT-52-1N055G	PRESSURE TRANSMITTER	ADS	C	114	037	
PT-52-2N055A	PRESSURE TRANSMITTER	ADS	A	188	061	
PT-52-2N055C	PRESSURE TRANSMITTER	ADS	C	181	058	
PT-52-2N055E	PRESSURE TRANSMITTER	ADS	A	185	060	
PT-52-2N055G	PRESSURE TRANSMITTER	ADS	C	184	059	
PT-55-1N050	PRESSURE TRANSMITTER	HPCI	B	109	034	
PT-55-1N058B	PRESSURE TRANSMITTER	HPCI	B	304W	044W	
PT-55-1N058D	PRESSURE TRANSMITTER	HPCI	D	304W	044W	
PT-55-1N058F	PRESSURE TRANSMITTER	HPCI	B	304W	044W	
PT-55-1N058H	PRESSURE TRANSMITTER	HPCI	D	304W	044W	
PT-55-2N050	PRESSURE TRANSMITTER	HPCI	B	180	057	
PT-55-2N058B	PRESSURE TRANSMITTER	HPCI	B	370W	067W	
PT-55-2N058D	PRESSURE TRANSMITTER	HPCI	D	370W	067W	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
PT-55-2N058F	PRESSURE TRANSMITTER	HPCI	B	370W	067W	
PT-55-2N058H	PRESSURE TRANSMITTER	HPCI	D	370W	067W	
PT-56-1N052	PRESSURE TRANSMITTER	HPCI	B	109	034	
PT-56-1N053	PRESSURE TRANSMITTER	HPCI	B	109	034	
PT-56-1N055B	PRESSURE TRANSMITTER	HPCI	B	109	034	
PT-56-1N055D	PRESSURE TRANSMITTER	HPCI	D	200	042	
PT-56-1N055F	PRESSURE TRANSMITTER	HPCI	B	109	034	
PT-56-1N055H	PRESSURE TRANSMITTER	HPCI	D	200	042	
PT-56-1N056B	PRESSURE TRANSMITTER	HPCI	B	109	034	
PT-56-1N056F	PRESSURE TRANSMITTER	HPCI	B	109	034	
PT-56-2N052	PRESSURE TRANSMITTER	HPCI	B	180	057	
PT-56-2N053	PRESSURE TRANSMITTER	HPCI	B	180	057	
PT-56-2N055B	PRESSURE TRANSMITTER	HPCI	B	180	057	
PT-56-2N055D	PRESSURE TRANSMITTER	HPCI	D	279	065	
PT-56-2N055F	PRESSURE TRANSMITTER	HPCI	B	180	057	
PT-56-2N055H	PRESSURE TRANSMITTER	HPCI	D	279	065	
PT-56-2N056B	PRESSURE TRANSMITTER	HPCI	B	180	057	
PT-56-2N056F	PRESSURE TRANSMITTER	HPCI	B	180	057	
SI-50-101	SPEED INDICATOR	RCIC	A	533	024	
SI-50-1R003	SPEED INDICATOR	RCIC	A	540	026	
SI-50-201	SPEED INDICATOR	RCIC	A	533	024	
SI-50-2R003	SPEED INDICATOR	RCIC	A	540	026	
SI-56-161	SPEED INDICATOR	HPCI	B	533	024	
SI-56-261	SPEED INDICATOR	HPCI	B	533	024	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
SV-52-139	CTMT ISO VALVE FOR LEVEL SENSING LINES	SPI	A	118	039	
SV-52-239	CTMT ISO VALVE FOR LEVEL SENSING LINES	SPI	A	189	062	
SV-57-101	CTMT ISO VALVE FOR LEVEL SENSING LINES	SPI	A	207	041	
SV-57-183	CTMT ISO VALVE FOR LEVEL SENSING LINES	SPI	A	309W	043W	
SV-57-201	CTMT ISO VALVE FOR LEVEL SENSING LINES	SPI	A	284	064	
SV-59-150A	COMPRESSED GAS SUPPLY SELECT VALVE	PCIG	C	304W	044W	1-RHRASC-A 1-RHRASC-B 1-RHRASC-C 1-RHRASC-D
SV-59-150B	COMPRESSED GAS SUPPLY SELECT VALVE	PCIG	D	304E	044E	1-RHRASC-B 1-RHRASC-A 1-RHRASC-D 1-RHRASC-C
SV-59-152A	COMPRESSED GAS SUPPLY SELECT VALVE	PCIG	C	304W	044W	1-RHRASC-A 1-RHRASC-B 1-RHRASC-C 1-RHRASC-D 1-MSRV
SV-59-152B	COMPRESSED GAS SUPPLY SELECT VALVE	PCIG	D	304E	044E	1-RHRASC-B 1-RHRASC-C 1-RHRASC-A 1-RHRASC-D
SV-59-250A	COMPRESSED GAS SUPPLY SELECT VALVE	PCIG	C	370E	067E	2-RHRASC-A 2-RHRASC-B 2-RHRASC-C 2-RHRASC-D
SV-59-250B	COMPRESSED GAS SUPPLY SELECT VALVE	PCIG	D	370E	067E	2-RHRASC-B 2-RHRASC-A 2-RHRASC-D 2-RHRASC-C
SV-59-252A	COMPRESSED GAS SUPPLY SELECT VALVE	PCIG	C	370E	067E	2-RHRASC-A 2-RHRASC-B 2-RHRASC-C 2-RHRASC-D 2-MSRV

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
SV-59-252B	COMPRESSED GAS SUPPLY SELECT VALVE	PCIG	D	370E	067E	2-RHRASC-B 2-RHRASC-C 2-RHRASC-A 2-RHRASC-D
TD-81-102A	CELL "A" AIR EXHAUST DAMPER	DGEV	A	311A	079	
TD-81-102B	CELL "B" AIR EXHAUST DAMPER	DGEV	B	311B	081	
TD-81-102C	CELL "C" AIR EXHAUST DAMPER	DGEV	C	311C	080	
TD-81-102D	CELL "D" AIR EXHAUST DAMPER	DGEV	D	311D	082	
TD-81-102E	CELL "A" AIR EXHAUST DAMPER	DGEV	A	311A	079	
TD-81-102F	CELL "B" AIR EXHAUST DAMPER	DGEV	B	311B	081	
TD-81-102G	CELL "C" AIR EXHAUST DAMPER	DGEV	C	311C	080	
TD-81-102H	CELL "D" AIR EXHAUST DAMPER	DGEV	D	311D	082	
TD-81-202A	CELL "A" AIR EXHAUST DAMPER	DGEV	A	315A	083	
TD-81-202B	CELL "B" AIR EXHAUST DAMPER	DGEV	B	315B	085	
TD-81-202C	CELL "C" AIR EXHAUST DAMPER	DGEV	C	315C	084	
TD-81-202D	CELL "D" AIR EXHAUST DAMPER	DGEV	D	315D	086	
TD-81-202E	CELL "A" AIR EXHAUST DAMPER	DGEV	A	315A	083	
TD-81-202F	CELL "B" AIR EXHAUST DAMPER	DGEV	B	315B	085	
TD-81-202G	CELL "C" AIR EXHAUST DAMPER	DGEV	C	315C	084	
TD-81-202H	CELL "D" AIR EXHAUST DAMPER	DGEV	D	315D	086	
TE-41-101A	TEMPERATURE ELEMENT	SPI	A	101	029	
TE-41-101B	TEMPERATURE ELEMENT	SPI	A	101	029	
TE-41-101C	TEMPERATURE ELEMENT	SPI	A	101	029	
TE-41-101D	TEMPERATURE ELEMENT	SPI	A	101	029	
TE-41-101E	TEMPERATURE ELEMENT	SPI	A	101	029	
TE-41-101F	TEMPERATURE ELEMENT	SPI	A	101	029	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
TE-41-101G	TEMPERATURE ELEMENT	SPI	A	101	029	
TE-41-101H	TEMPERATURE ELEMENT	SPI	A	101	029	
TE-41-103A	TEMPERATURE ELEMENT	SPI	B	101	029	
TE-41-103B	TEMPERATURE ELEMENT	SPI	B	101	029	
TE-41-103C	TEMPERATURE ELEMENT	SPI	B	101	029	
TE-41-103D	TEMPERATURE ELEMENT	SPI	B	101	029	
TE-41-103E	TEMPERATURE ELEMENT	SPI	B	101	029	
TE-41-103F	TEMPERATURE ELEMENT	SPI	B	101	029	
TE-41-103G	TEMPERATURE ELEMENT	SPI	B	101	029	
TE-41-103H	TEMPERATURE ELEMENT	SPI	B	101	029	
TE-41-201A	TEMPERATURE ELEMENT	SPI	A	172	052	
TE-41-201B	TEMPERATURE ELEMENT	SPI	A	172	052	
TE-41-201C	TEMPERATURE ELEMENT	SPI	A	172	052	
TE-41-201D	TEMPERATURE ELEMENT	SPI	A	172	052	
TE-41-201E	TEMPERATURE ELEMENT	SPI	A	172	052	
TE-41-201F	TEMPERATURE ELEMENT	SPI	A	172	052	
TE-41-201G	TEMPERATURE ELEMENT	SPI	A	172	052	
TE-41-201H	TEMPERATURE ELEMENT	SPI	A	172	052	
TE-41-203A	TEMPERATURE ELEMENT	SPI	B	172	052	
TE-41-203B	TEMPERATURE ELEMENT	SPI	B	172	052	
TE-41-203C	TEMPERATURE ELEMENT	SPI	B	172	052	
TE-41-203D	TEMPERATURE ELEMENT	SPI	B	172	052	
TE-41-203E	TEMPERATURE ELEMENT	SPI	B	172	052	
TE-41-203F	TEMPERATURE ELEMENT	SPI	B	172	052	
TE-41-203G	TEMPERATURE ELEMENT	SPI	B	172	052	
TE-41-203H	TEMPERATURE ELEMENT	SPI	B	172	052	
TE-76-121A	TEMPERATURE ELEMENT	REV	A	108	033	
TE-76-121B	TEMPERATURE ELEMENT	REV	A	108	033	
TE-76-122A	TEMPERATURE ELEMENT	REV	B	109	034	
TE-76-122B	TEMPERATURE ELEMENT	REV	B	109	034	
TE-76-123A	TEMPERATURE ELEMENT	REV	A	102	032	
TE-76-123B	TEMPERATURE ELEMENT	REV	B	103	031	
TE-76-123C	TEMPERATURE ELEMENT	REV	C	102	032	
TE-76-123D	TEMPERATURE ELEMENT	REV	D	103	031	
TE-76-123E	TEMPERATURE ELEMENT	REV	A	102	032	
TE-76-123F	TEMPERATURE ELEMENT	REV	B	103	031	
TE-76-123G	TEMPERATURE ELEMENT	REV	C	102	032	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
TE-76-123H	TEMPERATURE ELEMENT	REV	D	103	031	
TE-76-221A	TEMPERATURE ELEMENT	REV	A	179	056	
TE-76-221B	TEMPERATURE ELEMENT	REV	A	179	056	
TE-76-222A	TEMPERATURE ELEMENT	REV	B	180	057	
TE-76-222B	TEMPERATURE ELEMENT	REV	B	180	057	
TE-76-223A	TEMPERATURE ELEMENT	REV	A	173	054	
TE-76-223B	TEMPERATURE ELEMENT	REV	B	174	055	
TE-76-223C	TEMPERATURE ELEMENT	REV	C	173	054	
TE-76-223D	TEMPERATURE ELEMENT	REV	D	174	055	
TE-76-223E	TEMPERATURE ELEMENT	REV	A	173	054	
TE-76-223F	TEMPERATURE ELEMENT	REV	B	174	055	
TE-76-223G	TEMPERATURE ELEMENT	REV	C	173	054	
TE-76-223H	TEMPERATURE ELEMENT	REV	D	174	055	
TE-81-040A	TEMPERATURE ELEMENT	SPPV	A	1000	122	
TE-81-040B	TEMPERATURE ELEMENT	SPPV	B	1005	123	
TE-81-040C	TEMPERATURE ELEMENT	SPPV	C	1000	122	
TE-81-040D	TEMPERATURE ELEMENT	SPPV	D	1005	123	
TE-81-041A	TEMPERATURE ELEMENT	SPPV	A	1000	122	
TE-81-041B	TEMPERATURE ELEMENT	SPPV	B	1005	123	
TE-81-041C	TEMPERATURE ELEMENT	SPPV	C	1000	122	
TE-81-041D	TEMPERATURE ELEMENT	SPPV	D	1005	123	
TE-81-101A	TEMPERATURE ELEMENT	DGEV	A	311A	079	
TE-81-101B	TEMPERATURE ELEMENT	DGEV	B	311B	081	
TE-81-101C	TEMPERATURE ELEMENT	DGEV	C	311C	080	
TE-81-101D	TEMPERATURE ELEMENT	DGEV	D	311D	082	
TE-81-101E	TEMPERATURE ELEMENT	DGEV	A	311A	079	
TE-81-101F	TEMPERATURE ELEMENT	DGEV	B	311B	081	
TE-81-101G	TEMPERATURE ELEMENT	DGEV	C	311C	080	
TE-81-101H	TEMPERATURE ELEMENT	DGEV	D	311D	082	
TE-81-201A	TEMPERATURE ELEMENT	DGEV	A	315A	083	
TE-81-201B	TEMPERATURE ELEMENT	DGEV	B	315B	085	
TE-81-201C	TEMPERATURE ELEMENT	DGEV	C	315C	084	
TE-81-201D	TEMPERATURE ELEMENT	DGEV	D	315D	086	
TE-81-201E	TEMPERATURE ELEMENT	DGEV	A	315A	083	
TE-81-201F	TEMPERATURE ELEMENT	DGEV	B	315B	085	
TE-81-201G	TEMPERATURE ELEMENT	DGEV	C	315C	084	
TE-81-201H	TEMPERATURE ELEMENT	DGEV	D	315D	086	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
TI-41-101	SUPPRESSION POOL TEMPERATURE INDICATOR	SPI	A	533	024	1-SPI
TI-41-102	SUPPRESSION POOL TEMPERATURE INDICATOR	SPI	A	540	026	1-SPI
TI-41-103	SUPPRESSION POOL TEMPERATURE INDICATOR	SPI	B	533	024	1-SPI
TI-41-201	SUPPRESSION POOL TEMPERATURE INDICATOR	SPI	A	533	024	2-SPI
TI-41-202	SUPPRESSION POOL TEMPERATURE INDICATOR	SPI	A	540	026	2-SPI
TI-41-203	SUPPRESSION POOL TEMPERATURE INDICATOR	SPI	B	533	024	2-SPI
TI-50-140B	TEMPERATURE INDICATOR	RCIC	A	108	033	
TI-50-240B	TEMPERATURE INDICATOR	RCIC	A	179	056	
TISH-20-121A	TEMPERATURE INDICATING SWITCH	SDG	A	312A	079	
TISH-20-121B	TEMPERATURE INDICATING SWITCH	SDG	B	312B	081	
TISH-20-121C	TEMPERATURE INDICATING SWITCH	SDG	C	312C	080	
TISH-20-121D	TEMPERATURE INDICATING SWITCH	SDG	D	312D	082	
TISH-20-221A	TEMPERATURE INDICATING SWITCH	SDG	A	316A	083	
TISH-20-221B	TEMPERATURE INDICATING SWITCH	SDG	B	316B	085	
TISH-20-221C	TEMPERATURE INDICATING SWITCH	SDG	C	316C	084	
TISH-20-221D	TEMPERATURE INDICATING SWITCH	SDG	D	316D	086	
TISL-81-040A	TEMPERATURE INDICATING SWITCH	SPPV	A	1000	122	
TISL-81-040B	TEMPERATURE INDICATING SWITCH	SPPV	B	1005	123	
TISL-81-040C	TEMPERATURE INDICATING SWITCH	SPPV	C	1000	122	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
TISL-81-040D	TEMPERATURE INDICATING SWITCH	SPPV	D	1005	123	
TIT-76-121A	RCIC COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	A	200	042	
TIT-76-121B	RCIC COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	A	200	042	
TIT-76-122A	HPCI COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	B	207	041	
TIT-76-122B	HPCI COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	B	207	041	
TIT-76-123A	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	A	200	042	
TIT-76-123B	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	B	207	041	
TIT-76-123C	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	C	200	042	
TIT-76-123D	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	D	207	041	
TIT-76-123E	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	A	200	042	
TIT-76-123F	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	B	207	041	
TIT-76-123G	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	C	200	042	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
TIT-76-123H	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	D	207	041	
TIT-76-221A	RCIC COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	A	284	064	
TIT-76-221B	RCIC COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	A	284	064	
TIT-76-222A	HPCI COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	B	279	065	
TIT-76-222B	HPCI COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	B	279	065	
TIT-76-223A	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	A	284	064	
TIT-76-223B	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	B	279	065	
TIT-76-223C	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	C	284	064	
TIT-76-223D	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	D	279	065	
TIT-76-223E	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	A	284	064	
TIT-76-223F	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	B	279	065	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
TIT-76-223G	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	C	284	064	
TIT-76-223H	RHR COMPARTMENT TEMPERATURE INDICATING TRANSMITTER	REV	D	279	065	
TRS-41-101	DIV. I SUPPRESSION POOL TEMPERATURE MONITORING SYSTEM	SPI	A	533	024	
TRS-41-103	DIV. II SUPPRESSION POOL TEMPERATURE MONITORING SYSTEM	SPI	B	533	024	
TRS-41-201	DIV. I SUPPRESSION POOL TEMPERATURE MONITORING SYSTEM	SPI	A	533	024	
TRS-41-203	DIV. II SUPPRESSION POOL TEMPERATURE MONITORING SYSTEM	SPI	B	533	024	
TSH-HH76-121A	TEMPERATURE SWITCH	REV	A	200	042	
TSH-HH76-121B	TEMPERATURE SWITCH	REV	B	200	042	
TSH-HH76-122A	TEMPERATURE SWITCH	REV	A	207	041	
TSH-HH76-122B	TEMPERATURE SWITCH	REV	B	207	041	
TSH-HH76-123A	TEMPERATURE SWITCH	REV	A	200	042	
TSH-HH76-123B	TEMPERATURE SWITCH	REV	B	207	041	
TSH-HH76-123C	TEMPERATURE SWITCH	REV	C	200	042	
TSH-HH76-123D	TEMPERATURE SWITCH	REV	D	207	041	
TSH-HH76-123E	TEMPERATURE SWITCH	REV	A	200	042	
TSH-HH76-123F	TEMPERATURE SWITCH	REV	B	207	041	
TSH-HH76-123G	TEMPERATURE SWITCH	REV	C	200	042	
TSH-HH76-123H	TEMPERATURE SWITCH	REV	D	207	041	
TSH-HH76-221A	TEMPERATURE SWITCH	REV	A	284	064	
TSH-HH76-221B	TEMPERATURE SWITCH	REV	B	284	064	
TSH-HH76-222A	TEMPERATURE SWITCH	REV	A	279	065	
TSH-HH76-222B	TEMPERATURE SWITCH	REV	B	279	065	
TSH-HH76-223A	TEMPERATURE SWITCH	REV	A	284	064	
TSH-HH76-223B	TEMPERATURE SWITCH	REV	B	279	065	
TSH-HH76-223C	TEMPERATURE SWITCH	REV	C	284	064	
TSH-HH76-223D	TEMPERATURE SWITCH	REV	D	279	065	
TSH-HH76-223E	TEMPERATURE SWITCH	REV	A	284	064	
TSH-HH76-223F	TEMPERATURE SWITCH	REV	B	279	065	
TSH-HH76-223G	TEMPERATURE SWITCH	REV	C	284	064	
TSH-HH76-223H	TEMPERATURE SWITCH	REV	D	279	065	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
TSH-HH81-101A	TEMPERATURE SWITCH	DGEV	A	311A	079	
TSH-HH81-101B	TEMPERATURE SWITCH	DGEV	B	311B	081	
TSH-HH81-101C	TEMPERATURE SWITCH	DGEV	C	311C	080	
TSH-HH81-101D	TEMPERATURE SWITCH	DGEV	D	311D	082	
TSH-HH81-101E	TEMPERATURE SWITCH	DGEV	A	311A	079	
TSH-HH81-101F	TEMPERATURE SWITCH	DGEV	B	311B	081	
TSH-HH81-101G	TEMPERATURE SWITCH	DGEV	C	311C	080	
TSH-HH81-101H	TEMPERATURE SWITCH	DGEV	D	311D	082	
TSH-HH81-201A	TEMPERATURE SWITCH	DGEV	A	315A	083	
TSH-HH81-201B	TEMPERATURE SWITCH	DGEV	B	315B	085	
TSH-HH81-201C	TEMPERATURE SWITCH	DGEV	C	315C	084	
TSH-HH81-201D	TEMPERATURE SWITCH	DGEV	D	315D	086	
TSH-HH81-201E	TEMPERATURE SWITCH	DGEV	A	315A	083	
TSH-HH81-201F	TEMPERATURE SWITCH	DGEV	B	315B	085	
TSH-HH81-201G	TEMPERATURE SWITCH	DGEV	C	315C	084	
TSH-HH81-201H	TEMPERATURE SWITCH	DGEV	D	315D	086	
TSHL-76-121A	TEMPERATURE SWITCH	REV	A	200	042	
TSHL-76-121B	TEMPERATURE SWITCH	REV	B	200	042	
TSHL-76-122A	TEMPERATURE SWITCH	REV	A	207	041	
TSHL-76-122B	TEMPERATURE SWITCH	REV	B	207	041	
TSHL-76-123A	TEMPERATURE SWITCH	REV	A	200	042	
TSHL-76-123B	TEMPERATURE SWITCH	REV	B	207	041	
TSHL-76-123C	TEMPERATURE SWITCH	REV	C	200	042	
TSHL-76-123D	TEMPERATURE SWITCH	REV	D	207	041	
TSHL-76-123E	TEMPERATURE SWITCH	REV	A	200	042	
TSHL-76-123F	TEMPERATURE SWITCH	REV	B	207	041	
TSHL-76-123G	TEMPERATURE SWITCH	REV	C	200	042	
TSHL-76-123H	TEMPERATURE SWITCH	REV	D	207	041	
TSHL-76-221A	TEMPERATURE SWITCH	REV	A	284	064	
TSHL-76-221B	TEMPERATURE SWITCH	REV	B	284	064	
TSHL-76-222A	TEMPERATURE SWITCH	REV	A	279	065	
TSHL-76-222B	TEMPERATURE SWITCH	REV	B	279	065	
TSHL-76-223A	TEMPERATURE SWITCH	REV	A	284	064	
TSHL-76-223B	TEMPERATURE SWITCH	REV	B	279	065	
TSHL-76-223C	TEMPERATURE SWITCH	REV	C	284	064	
TSHL-76-223D	TEMPERATURE SWITCH	REV	D	279	065	
TSHL-76-223E	TEMPERATURE SWITCH	REV	A	284	064	
TSHL-76-223F	TEMPERATURE SWITCH	REV	B	279	065	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
TSHL-76-223G	TEMPERATURE SWITCH	REV	C	284	064	
TSHL-76-223H	TEMPERATURE SWITCH	REV	D	279	065	
TSHL-81-341A	TEMPERATURE SWITCH	SPPV	A	1000	122	
TSHL-81-341B	TEMPERATURE SWITCH	SPPV	B	1005	123	
TSHL-81-341C	TEMPERATURE SWITCH	SPPV	C	1000	122	
TSHL-81-341D	TEMPERATURE SWITCH	SPPV	D	1005	123	
TTICSL-81-041A	SYSTEM "A" FAN CABINET TEMPERATURE INDICATING CONTROLLER	SPPV	A	1000	122	
TTICSL-81-041B	SYSTEM "B" FAN CABINET TEMPERATURE INDICATING CONTROLLER	SPPV	B	1005	123	
TTICSL-81-041C	SYSTEM "C" FAN CABINET TEMPERATURE INDICATING CONTROLLER	SPPV	C	1000	122	
TTICSL-81-041D	SYSTEM "D" FAN CABINET TEMPERATURE INDICATING CONTROLLER	SPPV	D	1005	123	
TTICSHL-81-101A	CELL "A" EXHAUST FAN CONTROLLER	DGEV	A	311A	079	
TTICSHL-81-101B	CELL "B" EXHAUST FAN CONTROLLER	DGEV	B	311B	081	
TTICSHL-81-101C	CELL "C" EXHAUST FAN CONTROLLER	DGEV	C	311C	080	
TTICSHL-81-101D	CELL "D" EXHAUST FAN CONTROLLER	DGEV	D	311D	082	
TTICSHL-81-101E	CELL "A" EXHAUST FAN CONTROLLER	DGEV	A	311A	079	
TTICSHL-81-101F	CELL "B" EXHAUST FAN CONTROLLER	DGEV	B	311B	081	
TTICSHL-81-101G	CELL "C" EXHAUST FAN CONTROLLER	DGEV	C	311C	080	
TTICSHL-81-101H	CELL "D" EXHAUST FAN CONTROLLER	DGEV	D	311D	082	
TTICSHL-81-201A	CELL "A" EXHAUST FAN CONTROLLER	DGEV	A	315A	083	
TTICSHL-81-201B	CELL "B" EXHAUST FAN CONTROLLER	DGEV	B	315B	085	

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
TTICSHL-81-201C	CELL "C" EXHAUST FAN CONTROLLER	DGEV	C	315C	084	
TTICSHL-81-201D	CELL "D" EXHAUST FAN CONTROLLER	DGEV	D	315D	086	
TTICSHL-81-201E	CELL "A" EXHAUST FAN CONTROLLER	DGEV	A	315A	083	
TTICSHL-81-201F	CELL "B" EXHAUST FAN CONTROLLER	DGEV	B	315B	085	
TTICSHL-81-201G	CELL "C" EXHAUST FAN CONTROLLER	DGEV	C	315C	084	
TTICSHL-81-201H	CELL "D" EXHAUST FAN CONTROLLER	DGEV	D	315D	086	
TY-41-102	TEMPERATURE CONVERTER	SPI	A	540	026	
TY-41-202	TEMPERATURE CONVERTER	SPI	A	540	026	
TY-81-101A	TEMPERATURE SIGNAL SELECTOR	DGEV	A	311A	079	
TY-81-101B	TEMPERATURE SIGNAL SELECTOR	DGEV	B	311B	081	
TY-81-101C	TEMPERATURE SIGNAL SELECTOR	DGEV	C	311C	080	
TY-81-101D	TEMPERATURE SIGNAL SELECTOR	DGEV	D	311D	082	
TY-81-201A	TEMPERATURE SIGNAL SELECTOR	DGEV	A	315A	083	
TY-81-201B	TEMPERATURE SIGNAL SELECTOR	DGEV	B	315B	085	
TY-81-201C	TEMPERATURE SIGNAL SELECTOR	DGEV	C	315C	084	
TY-81-201D	TEMPERATURE SIGNAL SELECTOR	DGEV	D	315D	086	
XR-42-1R623A	REACTOR VESSEL PRESSURE AND WATER LEVEL RECORDER	RVI	A	533	024	1-RVI
XR-42-1R623B	REACTOR VESSEL PRESSURE AND WATER LEVEL RECORDER	RVI	B	533	024	1-RVI
XR-42-2R623A	REACTOR VESSEL PRESSURE AND WATER LEVEL RECORDER	RVI	A	533	024	2-RVI
XR-42-2R623B	REACTOR VESSEL PRESSURE AND WATER LEVEL RECORDER	RVI	B	533	024	2-RVI

Table 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Component	Description	Plant Sys.	Sfgd. Chan.	Room	Fire Area	FSSD Sys. Design.
ZC-81-102A	POSITION CONTROLLER	DGEV	A	311A	079	
ZC-81-102B	POSITION CONTROLLER	DGEV	B	311B	081	
ZC-81-102C	POSITION CONTROLLER	DGEV	C	311C	080	
ZC-81-102D	POSITION CONTROLLER	DGEV	D	311D	082	
ZC-81-102E	POSITION CONTROLLER	DGEV	A	311A	079	
ZC-81-102F	POSITION CONTROLLER	DGEV	B	311B	081	
ZC-81-102G	POSITION CONTROLLER	DGEV	C	311C	080	
ZC-81-102H	POSITION CONTROLLER	DGEV	D	311D	082	
ZC-81-202A	POSITION CONTROLLER	DGEV	A	315A	083	
ZC-81-202B	POSITION CONTROLLER	DGEV	B	315B	085	
ZC-81-202C	POSITION CONTROLLER	DGEV	C	315C	084	
ZC-81-202D	POSITION CONTROLLER	DGEV	D	315D	086	
ZC-81-202E	POSITION CONTROLLER	DGEV	A	315A	083	
ZC-81-202F	POSITION CONTROLLER	DGEV	B	315B	085	
ZC-81-202G	POSITION CONTROLLER	DGEV	C	315C	084	
ZC-81-202H	POSITION CONTROLLER	DGEV	D	315D	086	

LEGEND FOR TABLE 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

The information presented in each column of Table 9A-4 is explained as follows.

Component	Major Safe Shutdown Components NOTE: Components identified with an asterix (*) designate associations of equipment and cables that perform common functions. These designations are used for analysis purposes only, and do not represent plant identification.
Description	Brief description of the component
Plant Sys.	General FSSD system designation for the component, based on the function the component provides

KEY:

ADS	Automatic Depressurization System
APS	13kV Power Supply to the 4kV Safeguard Busses
CS	Core Spray
DGEV	Diesel Generator Enclosure Ventilation
EPS	Class 1E Power Distribution System
ESW	Emergency Service Water System
HI/LOW	Selected Reactor Coolant Pressure Boundaries and High Low Pressure Interfaces
HPCI	High Pressure Coolant Injection System
MSRV	Main Steam Relief Valves
PCIG	Primary Containment Instrument Gas System
RCIC	Reactor Core Isolation Cooling System
REV	Reactor Enclosure Ventilation
RHR	Residual Heat Removal System
RHRSW	Residual Heat Removal Service Water System
RVI	Reactor Vessel Instrumentation
SDG	Standby Diesel Generators and Auxiliaries
SPI	Suppression Pool Instrumentation
SPPV	Spray Pond Pump Structure Ventilation

LEGEND FOR TABLE 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

Sfgd. Chan.	Safeguard Channel designation for electrical components NOTE: Components identified with a letter in parenthesis are not designated as safeguard, but are energized from the Safeguard Channel indicated.
Room	Room location for the component Components located in rooms which are subdivided by Combustible Free Zones have an East or West suffix provided to more precisely identify their location.
Fire Area	Fire Area location for the component Components located in Fire Areas which are subdivided by Combustible Free Zones have an East or West suffix provided to more precisely identify their location.
FSSD Sys. Desig.	Fire Safe Shutdown System/Train Designation Populated for components which directly support a Safe Shutdown Function. KEY: A-BBBBB-C A Unit (0, 1, 2) BBBBB System Function Designation (see table below) C Loop/Train (provided for multi-train systems)

LEGEND FOR TABLE 9A-4 (Cont'd)

MAJOR COMPONENTS ANALYZED FOR FIRE SAFE SHUTDOWN

System Function Designations:

ESW	Emergency Service Water
ADS	Automatic Depressurization System
HI/LOW	Selected Reactor Coolant Pressure Boundaries and High Low Pressure Interfaces
HPCI	High Pressure Coolant Injection System
HPCITRIP	HPCI shutdown capability
MSRV	Main Steam Relief Valves
RCIC	Reactor Core Isolation Cooling System
RCICTRIP	RCIC shutdown capability
RHRASC	RHR Alternate Shutdown Cooling Mode
RHRLPCI	RHR Low Pressure Coolant Injection Mode
RHRSC	RHR Shutdown Cooling Mode
RHRSPC	RHR Suppression Pool Cooling Mode
RHRSW	RHR Service Water
RVI	Reactor Vessel Instrumentation - Direct-reading indication of Reactor parameters
SPI	Suppression Pool Instrumentation - Direct-reading indication of Suppression Pool parameters

Tables 9A-5 through 9A-11

Tables 9A-5 through 9A-11
(Deleted)

Table 9A-12

RCPB VALVES SUSCEPTIBLE TO
FIRE INDUCED SPURIOUS OPERATION

P&ID NUMBER	INTERFACE VALVES[1,2]	REMARKS
M-41	(U) HV-41-1F001 (D) HV-41-1F002 (U) HV-41-2F001 (D) HV-41-2F002	Located in piping from the RPV head vent line to the drywell equipment drain tank. If both valves open due to fire damage, the steam released into the drain tank would be vented into the drywell via the 4 inch vent line. No equipment needed for safe shutdown would be damaged.
M-41	(S) PSV-41-1F013A (S) PSV-41-2F013A	Located in a branch line connected to the main steam piping inside primary containment. Typical for suffix "B", "C", "D", "E", "F", "G", "H", "J", "K", "L", "M", "N", and "S" valves. If this valve opens, steam will be discharged from the reactor vessel to the suppression pool. Released reactor coolant will be retained inside the primary containment, and no equipment needed for safe shutdown will be damaged.
M-41	(U) HV-41-1F016 (D) HV-41-1F019 (U) HV-41-2F016 (D) HV-41-2F019	Located in the main steam drain line. If both of these valves open due to fire damage, various leakage paths downstream of the valves could allow reactor coolant to be discharged to the main condenser or the main steam tunnel. For all of the potential flow paths, this condition is acceptable because (a) the reactor vessel inventory can be maintained by the coolant makeup pumps that are available for each of the shutdown methods, (b) the mass inventory expected to be released is less than that expected for a main steam line break outside primary containment, and (c) the release of reactor coolant will not cause damage to any equipment needed for safe shutdown
M-41	(U) HV-41-1F022A (D) HV-41-1F028A (U) HV-41-2F022A (D) HV-41-2F028A	Located in the main steam lines between the reactor vessel and the turbine-generator. Typical for suffix "B", "C", and "D" valves. If both of these valves open simultaneously due to fire damage, the main steam piping outside primary containment would be pressurized. Although the main steam piping leading to the main turbine is designed as high pressure piping, there are a number of potential leakage paths associated with branch lines from the main steam lines. Because of the high reliability of the MSIVs and because of the fail-safe features of their design, these valves are assumed to retain their capability to close and remain closed during a postulated fire.

Table 9A-12 (Cont'd)

P&ID NUMBER	INTERFACE VALVES[1,2]	REMARKS
M-41	(U) HV-41-1F084 (D) HV-41-1F085	Located in the sample line from main steam line C to sample station 10S292 (20S292). If both valves open due to fire damage, a closed manual valve at the sample station would prevent steam blowdown.
M-41	(U) HV-41-109A (U) HV-41-109B (D) HV-41-110 (U) HV-41-209A (U) HV-41-209B (D) HV-41-210	Located in the feedwater recirculation line between the main feedwater headers and the main condenser. Spurious opening of either of the upstream valves together with the downstream valve as a result of fire-caused damage would allow water from the RWCU return line to be discharged to the main condenser via the feedwater headers. Plant procedures require that the circuit breakers for the upstream valves be locked open at motor control centers 10B213 (20B213) and 10B214 (20B214), with the valves in the fully closed position, after warmup of the feedwater lines has been completed. By de-energizing the breakers, fires which effect the control circuits to the valves are prevented from causing the valves to spuriously open. This action prevents the interface from opening in fire areas where RCIC is relied upon for safe shutdown. For other postulated fires, this condition is acceptable because (a) the reactor vessel inventory can be maintained by the available coolant makeup pumps, (b) the mass inventory expected to be released is less than expected for a main steam line break outside containment, and (c) the release of reactor coolant will not cause damage to any equipment needed for safe shutdown.
M-43	(U) HV-43-1F019 (D) HV-43-1F020 (U) HV-43-2F019 (D) HV-43-2F020	Located in the sample line from recirculation loop B to sample station 10S292 (20S292). This spurious operation or loss of capability to close these valves due to fire damage, will allow the sample line to blowdown to clean radwaste system (CRWS). The leakage is acceptable because the inventory loss is within the RCIC pump make-up capability, the blowdown is limited by the 1/4 inch sample line and the release of reactor coolant will not cause damage to any equipment needed for safe shutdown.

Table 9A-12 (Cont'd)

P&ID NUMBER	INTERFACE VALVES[1,2]	REMARKS
M-44	(U) HV-44-1F031 (U) HV-C44-1F033 (D) HV-44-1F034 (D) HV-44-1F035 (U) HV-44-2F031 (U) HV-C44-2F033 (D) HV-44-2F034 (D) HV-44-2F035	Located in the blowdown line from the RWCU system. If only valve HV-C44-1(2)F033 opens spuriously together with either HV-44-1(2)F034 or HV-44-1(2)F035 valve water from the RWCU system would be discharged to either the main condenser or the equipment drain collection tank. No equipment needed for safe shutdown would be damaged by the discharge of reactor coolant and the reactor vessel inventory can be maintained by the coolant makeup pumps that are available for each of the shutdown methods. To ensure that HV-44-1(2)F031 does not open and the blowdown flow rate is limited to an acceptable value, the power circuit for valve HV- 44-1F031 (2F031) will be isolated (with the valve in the fully closed position) when reactor pressure exceeds 75 psig.
M-44	(S) SV-45-101A (S) SV-45-201A	Located in the RWCU filter/demineralizer sample line. Typical for the suffix "B" valve. The loss of capability to close these valves due to fire damage, will allow the sample line to blowdown to clean radwaste system (CRWS). The leakage is acceptable because the inventory loss is within the RICI pump make-up capability, the blowdaown is limited by the 1/4 inch sample line and the release of reactor coolant will not cause damage to any equipment needed for safe shutdown.
M-47	(U) XV-47-1F010 (D) XV-47-1F180 (U) XV-47-2F010 (D) XV-47-2F180	Located in the vent line from the scram discharge volume to an open floor drain. The SDV would be at high pressure only during the period following a scram and prior to reset of the scram signal. The discharge of water from the SDV into a floor drain during this period would not cause damage to any equipment needed for safe shutdown, and the flow rate would be low enough so that reactor vessel inventory could be maintained by the coolant makeup pumps that are available for each shutdown method.
M-47	(U) XV-47-1F011 (D) XV-47-1F181 (U) XV-47-2F011 (D) XV-47-2F181	Located in the drain line from the scram discharge volume to the equipment drain collection tank (via 8" HBC-133/233). The SDV would be at high pressure only during the period following a scram and prior to reset of the scram signal. The discharge of water from the SDV to the equipment drain collection tank during this period would not cause damage to any equipment needed for safe shutdown, and the flow rate would be low enough so that reactor vessel inventory could be maintained by the coolant makeup pumps that are available for each shutdown method.

Table 9A-12 (Cont'd)

P&ID NUMBER	INTERFACE VALVES[1,2]	REMARKS
M-49	(S) LV-49-1F054 (S) LV-49-2F054	Located in the drain line from the drain pot in the RCIC steam supply line. If this valve opens due to fire damage, main steam would be discharged to the main condenser. This condition is acceptable because (a) the reactor vessel inventory can be maintained by the coolant makeup pumps that are available for each of the shutdown methods, (b) the mass inventory expected to be released is less than that expected for a main steam line break outside primary containment, and (c) the release of reactor coolant will not cause damage to any equipment needed for safe shutdown.
M-50	(S) LV-50-110 (S) LV-50-210	Located in the drain line from the drain pot in the RCIC turbine exhaust line. If this valve opens due to fire damage, at a time when RCIC steam supply line shutoff valve HV-50-1F045 (2F045) is open, main steam could bleed into the RCIC barometric condenser. This condition is acceptable because (a) the reactor vessel inventory can be maintained by the coolant makeup pumps that are available for each of the shutdown methods, (b) the mass inventory expected to be released is less than that expected for a main steam line break outside primary containment, and (c) the release of reactor coolant will not cause damage to any equipment needed for safe shutdown.
M-51	(U) HV-51-1F009 (D) HV-51-1F008 (U) HV-51-2F009 (D) HV-51-2F008	Located in the RHR shutdown cooling suction line. If both valves open due to fire damage, the RHR pump suction lines could be damaged. In order to prevent both the upstream and downstream valves from opening simultaneously, an additional interlock by means of a pressure switch, is added to monitor the reactor vessel pressure for the downstream valve. Whenever the reactor vessel pressure exceeds the design capabilities of the RHR low pressure piping the contacts of the pressure switch will open, thereby isolating the opening relay of the downstream valves and preventing the valve to open.

Table 9A-12 (Cont'd)

P&ID NUMBER	INTERFACE VALVES[1,2]	REMARKS
M-51	(U) HV-51-151A (U) HV-51-1F050A (D) HV-51-1F015A (U) 51-1200A (U) HV-51-251A (U) HV-51-2F050A (D) HV-51-2F015A (U) 51-2200A	Located in the RHR loop A shutdown cooling return line. HV-51-1F050A (2F050A) is a check valve that will close to prevent reverse flow if HV-51-1F015A (2F015A) fails in the open position. The pneumatic operator on HV-51-1F050A (2F050A) is for testing purposes only and cannot unseat the valve disk or hold it open when a differential pressure exists across the valve. However, if bypass valve HV-51-151A (251A) and the outboard containment isolation valve both open due to fire damage, the flow through the bypass line will pressurize the shutdown cooling return piping outside the drywell. The flow through the bypass line will be limited by ¼" flow restricting orifice F0-51-151A (251A) to a value that is less than the capacity of downstream relief valve PSV-51-1F025A (2F025A). The discharged reactor coolant will not overpressurize or overheat the low pressure piping and will not cause damage to any equipment required for safe shutdown. In addition, the reactor vessel inventory can be maintained by the coolant makeup pumps that are available for each of the shutdown methods. (Typical for the loop B shutdown cooling return line.) Outboard isolation valve HV-051-1F015A (2F015A) has an additional piping path from the reactor coolant pressure boundary to penetration X-13A. This small-bore piping path connects the equalizing line of valve HV-51-1F050A (2F050A) to the bonnet vent line of the recirculation pump suction block valve HV-043-1F023A (2F023A). Spring-assisted, check valve 51-1200A (2200A) in this flow path will acts as an inboard isolation valve to penetration X-13A from the recirculation system. Check valve 51-1200A (2200A) performs the same PCIV's/PIV's functions in penetration X-13A as valves HV-051-1F050A (2F050A) and HV-051-151A (251A). (Typical for the loop B shutdown cooling return line.)
M-51	(U) HV-51-142A (U) HV-51-1F041A (D) HV-51-1F017A (U) HV-51-242A (U) HV-51-2F041A (D) HV-51-2F017A	Located in the loop A LPCI injection line. HV-51-1F041A (2F041A) is a check valve that will close to prevent reverse flow if HV-51-1F017A (2F017A) fails in the open position. The pneumatic operator on HV-51-1F041A (2F041A) is for testing purposes only and cannot unseat the valve disk or hold it open when a differential pressure exists across the valve. However, if bypass valve HV-51-142A (242A) and the outboard containment isolation valve both open due to fire damage, the flow through the bypass line will pressurize the LPCI injection piping outside the drywell. The flow through the bypass line will be limited by ¼" flow restricting orifice F0-51- 142A(242A) to a value that is less than the capacity of downstream relief valve PSV-51-1F025A (2F025A). The discharged reactor coolant will not overpressurize or overheat the low pressure piping and will not cause damage to any equipment required for safe shutdown. In addition, the reactor vessel inventory can be maintained by the coolant makeup pumps that are available for each of the shutdown methods. (Typical for LPCI injection lines B, C, and D.)

Table 9A-12 (Cont'd)

P&ID NUMBER	INTERFACE VALVES(1,2)	REMARKS
M-52	(U) HV-52-1F039A (U) HV-52-1F006A (D) HV-52-1F005 (U) HV-52-2F039A (U) HV-52-2F006A (D) HV-52-2F005	Located in the loop A core spray injection line. HV-52-1F006A (2F006A) is a check valve that will close to prevent reverse flow if HV-52-1F005 (2F005) fails in the open position. The pneumatic operator on HV-52-1F006A (2F006A) is for testing purposes only and cannot unseat the valve disk or hold it open when a differential pressure exists across the valve. However, if bypass valve HV-52-1F039A (2F039A) and the outboard containment isolation valve both open due to fire damage, the flow through the bypass line will pressurize the core spray injection piping outside the drywell. The flow through the bypass line will be limited by ¼" flow restricting orifice F0-52-106A (206A) to a value that is less than the capacity of downstream relief valve PSV-52-1F012A (2F012A). The discharged reactor coolant will not overpressurize or overheat the low pressure piping and will not cause damage to any equipment required for safe shutdown. In addition, the reactor vessel inventory can be maintained by the coolant makeup pumps that are available for each of the shutdown methods.
M-52	(U) HV-52-1F039B (U) HV-52-1F006B (D) HV-52-108 (U) HV-52-2F039B (U) HV-52-2F006B (D) HV-52-208	Located in the loop B core spray injection line. The pneumatic operator on check valve HV-52-1F006B (2F006B) is for testing purposes only and cannot unseat the valve disk or hold it open when a differential pressure exists across the valve. If bypass valve HV-52-1F039B (2F039B) opens due to fire damage, reverse flow cannot occur because outboard containment isolation valve HV-52-108 (208) is a check valve.
M-55	(S) HV-55-1F054 (S) HV-55-1F054	Located in the drain line of the HPCI steam supply line drain pot. If this valve opens due to fire damage, main steam could be discharged to the main condenser. This condition is acceptable because (a) the reactor vessel inventory can be maintained by the coolant makeup pumps that are available for each of the shutdown methods, (b) the mass inventory expected to be released is less than expected for a main steam line break outside primary containment, and (c) the release of reactor coolant will not cause damage to any equipment needed for safe shutdown.

(1) Upstream valves are identified by the (U) designation. Downstream valves are identified by the (D) designation. Single valves are identified by the (S) designation. For the purposes of this study, upstream valves are defined as those valves that are closest to the RCPB.

(2) For each entry in this table, two groups of interface valves are listed. The first group consists of valves in Unit 1 and the second group consists of the corresponding valves in Unit 2.

Table 9A-13
has been DELETED.

Table 9A-14

Operations That May Be Required To Be Performed Outside The Control Room

Equipment ID	Action Description
10-A116	Operate Local Control Switches
10-A118	Trip B Control Room Chiller For MHIF
10-C601-X1	Position Valves Using Emergency Control Switches - HV-51-125B, 1F004B, 1F015B, 1F027B, HV-C-51-1F048B
10-C601-X2	Position Valve Using Emergency Control Switch - HV-51-1F017B
10TB-49-1F007	Operate Power Transfer Switch - HV-49-1F007
1A-C514	Start Diesel 1AG501 Generator Using Local Controls
1B-C514	Start Diesel 1BG501 Generator Using Local Controls
20-A116	Operate Local Control Switches
20-C601-X1	Position Valves Using Emergency Control Switches - HV-51-2F015B, 2F027B, HV-C-51-2F048B
20-C601-X2	Position Valve Using Emergency Control Switch - HV-51-2F017B
20TB-49-2F007	Operate Power Transfer Switch - HV-49-2F007
2A-C514	Start Diesel 2AG501 Generator Using Local Controls
2B-C514	Start Diesel 2BG501 Generator Using Local Controls

Table 9A-14 (Cont'd)

Operations That May Be Required To Be Performed Outside The Control Room

Equipment ID	Action Description
ADS Control at 289'	Operate ADS Valves At The PGCC
HS-51-282B	Open Valve Using Local Controls - HV-51-282B
HS-56-162	Operate Switch At 10C201 To Runback HPCI Turbine
HS-56-262	Operate Switch At 20C201 To Runback HPCI Turbine
HV-11-011B	Close Manually To Prevent Long Term ESW Flow Diversion
HV-11-015A	Close Manually To Prevent Long Term ESW Flow Diversion
HV-11-015B	Open Manually
HV-11-132A	Open Manually
HV-11-232A	Open Manually

Table 9A-14 (Cont'd)

Operations That May Be Required To Be Performed Outside The Control Room

Equipment ID	Action Description
HV-12-031B	Close Manually
HV-12-031C	Open Manually
HV-12-032B	Open Manually
HV-12-032C	Open Manually
HV-12-032D	Open / Close Manually
HV-49-1F084	Open Manually
HV-49-2F084	Open Manually
HV-51-1F003B	Open Manually
HV-51-1F006B	Close Manually
HV-51-1F008	Open Manually
HV-51-1F010A	Close Manually
HV-51-1F014B	Open Manually
HV-51-1F015A	Close Manually
HV-51-1F017B	Close Manually
HV-51-1F024B	Open Manually
HV-51-1F047B	Open Manually
HV-51-1F049	Close Manually

Table 9A-14 (Cont'd)

Operations That May Be Required To Be Performed Outside The Control Room

Equipment ID	Action Description
HV-51-1F068A	Open Manually
HV-51-1F068B	Open Manually
HV-51-2F006B	Close Manually
HV-51-2F008	Open Manually
HV-51-2F010A	Close Manually
HV-51-2F015A	Close Manually
HV-51-2F024B	Open Manually
HV-51-2F049	Close Manually
HV-51-2F068A	Open Manually
HV-51-2F068B	Open Manually
HV-51-2F073	Close Manually
HV-55-126	Open Manually
HV-C-51-1F048A	Close Manually
HV-C-51-2F048B	Close Manually
Remote Shutdown Panel (289)	Operate Equipment, Monitor Instruments