B13 REACTOR SYSTEM

	B13D001	REACTOR ASSEMBLY
*	B13D002	REACTOR VESSEL & INTERNALS ASSEMBLY
	B13D004	SHROUD HEAD AND SEPARATOR
	B13D005	STEAM DRYER
*	B13N001	BOTTOM HEAD INSULATION & SUPPORT
	B13N002	RPV INSULATION
*	B13U005	CRD HOUSING SUPPORT

B21 NUCLEAR BOILER SYSTEM

	B21Z001	FEEDWATER CORROSION PRODUCT MONITOR

B33 REACTOR RECIRCULATION SYSTEM

	B33C001A	REACTOR RECIRCULATING PUMP
	B33C001B	REACTOR RECIRCULATING PUMP
	B33D003A	HYDRAULIC POWER UNIT
	B33D003B	HYDRAULIC POWER UNIT
	B33S001A	REACTOR RECIRCULATION PUMP LOW FREQUENCY MG SET
	B33S001B	REACTOR RECIRCULATION PUMP LOW FREQUENCY MG SET
	B33P001	LOW FREQUENCY MG SET AUXILIARY RELAY PANEL

C11 CONTROL ROD DRIVE HYDRAULIC CONTROL SYSTEM

	C11C001A	DRIVE WATER PUMP
	C11C001B	DRIVE WATER PUMP
	C11D001	HYDRAULIC CONTROL UNIT (177 UNITS)
	C11D003A	DRIVE WATER FILTER
	C11D003B	DRIVE WATER FILTER
	C11D010A	PUMP SUCTION FILTER
	C11D010B	PUMP SUCTION FILTER

C41 STAND BY LIQUID CONTROL SYSTEM

	C41A001	STORAGE TANK
	C41A002	TEST TANK
	C41A003	SLCS MIXING TANK
	C41C001	PUMP
	C41C002	SLCS TRANSFER PUMP

C51 NEUTRON MONITORING SYSTEM

*	C51E001	DISPOSAL CASK
*	C51E002	DISPOSAL EQUIPMENT
	C51J001A	DRIVE MECHANISM
	C51J001B	DRIVE MECHANISM
	C51J001C	DRIVE MECHANISM
	C51J001D	DRIVE MECHANISM
	C51J001E	DRIVE MECHANISM
	C51J002A	INDEXING MECHANISM
	C51J002B	INDEXING MECHANISM
	C51J002C	INDEXING MECHANISM
	C51J002D	INDEXING MECHANISM
	C51J002E	INDEXING MECHANISM
*	C51S001A	MOTOR MODULE
*	C51S001B	MOTOR MODULE
*	C51S001C	MOTOR MODULE
*	C51S001D	MOTOR MODULE
*	C51S001E	MOTOR MODULE
*	C51S001F	MOTOR MODULE
*	C51S001G	MOTOR MODULE
*	C51S001H	MOTOR MODULE
*	C51S001J	MOTOR MODULE
*	C51S001K	MOTOR MODULE
*	C51S001L	MOTOR MODULE
*	C51S001M	MOTOR MODULE

C61 REMOTE SHUTDOWN SYSTEM

	C61P001	REMOTE SHUTDOWN PANEL
	C61P002	REDUNDANT REMOTE SHUTDOWN PANEL

C71 REACTOR PROTECTION SYSTEM

	C71P001	RPS POWER DISTRIBUTION PANEL
	C71S001A	MOTOR GENERATOR SET
	C71S001B	MOTOR GENERATOR SET

C85 STEAM BYPASS & PRESSURE REGULATING SYSTEM

	C85D002	HYDRAULIC POWER UNIT
	C85F001	STEAM BYPASS VALVE
	C85F002	STEAM BYPASS VALVE
*	C85P800	PRESSURE REGULATOR CABINET

C91 PROCESS COMPUTER SYSTEM

*	C91P800	CSU PROCESSOR
*	C91P803	DRUM MEMORY CABINET
*	C91P805	DISC MEMORY CABINET
*	C91P813	NSS ANALOG CABINET
*	C91P814	BOP ANALOG CABINET
*	C91P820	DIGITAL INPUT/OUTPUT CABINET
*	C91P821	DIGITAL INPUT/OUTPUT CABINET
*	C91P838	LINE PRINTER
*	C91P839	CARD PUNCH
*	C91P840	OPERATOR'S CONSOLE TABLE
*	C91P841	OPERATOR'S CONSOLE TABLE
*	C91P842	ENGINEER'S INTERFACE CONSOLE
	C91P815	BOP ANALOG CABINET
	C91P816	BOP ANALOG CABINET
	C91P822	BOP DIGITAL CABINET

D17 PLANT RADIATION MONITORING SYSTEM

	D17J005	EMERGENCY SERVICE WATER LOOP A RADIATION MONITOR RACK
	D17J006	EMERGENCY SERVICE WATER LOOP B RADIATION MONITOR RACK
	D17J007	RADWASTE EFFLUENT TO EMERGENCY SVCE WTR RADIATION MONITOR RACK
	D17J008	NUCLEAR CLOSED COOLING SYSTEM RADIATION MONITOR RACK
	D17J009	ADHR HX SERVICE WTR RADIATION MONITOR RACK
	D17J013	OFF-GAS POST-TREATMENT SAMPLE PANEL
	D17J014	OFF-GAS POST-TREATMENT VIAL SAMPLER
*	D17J034	OFF-GAS PRETREATMENT SAMPLER PANEL
*	D17K001A	OFF-GAS POST-TREATMENT RADIATION MONITOR (D17J013)
*	D17K001B	OFF-GAS POST-TREATMENT RADIATION MONITOR (D17J014)

D17 PLANT RADIATION MONITORING SYSTEM (CONT.)

	D17K604	EMERGENCY SERVICE WATER LOOP "A" RADIATION MONITOR (D17J005)
	D17K605	EMERGENCY SERVICE WATER LOOP "B" RADIATION MONITOR (D17J006)
	D17K606	RADWASTE DISCHARGE RADIATION MONITOR - ESW DISCHARGE (D17J007)
	D17K607	NUCLEAR CLOSED COOLING RADIATION MONITOR (D17J008)
*	D17K608	ADHR HX SERVICE WTR RADIATION MONITOR RACK (D17J009)
*	D17K609A	CONTAINMENT VENTILATION EXHAUST RADIATION MONITOR
*	D17K609B	CONTAINMENT VENTILATION EXHAUST RADIATION MONITOR
*	D17K609C	CONTAINMENT VENTILATION EXHAUST RADIATION MONITOR
*	D17K609D	CONTAINMENT VENTILATION EXHAUST RADIATION MONITOR
*	D17K610A	MAIN STEAM LINE RADIATION MONITOR
*	D17K610B	MAIN STEAM LINE RADIATION MONITOR
*	D17K610C	MAIN STEAM LINE RADIATION MONITOR
*	D17K610D	MAIN STEAM LINE RADIATION MONITOR
*	D17K611A	CARBON BED VAULT RADIATION MONITOR
*	D17K611B	CARBON BED VAULT RADIATION MONITOR
*	D17K612	OFF-GAS PRETREATMENT RADIATION MONITOR (D17J034)
	D17K660	CONTAINMENT VESSEL AND DRYWELL PURGE EXHAUST RADIATION MONITOR (H51P070)
	D17K670	DRYWELL ATMOSPHERE RADIATION MONITOR (H51P071)
	D17K680	CONTAINMENT ATMOSPHERE RADIATION MONITOR (H51P072)
	D17K690A	ANNULUS EXHAUST - TRAIN "A" - RADIATION MONITOR (H51P073)
	D17K690B	ANNULUS EXHAUST - TRAIN "B" - RADIATION MONITOR (H51P074)
	D17K700	AUXILIARY BUILDING VENTILATION EXHAUST RADIATION MONITOR (H51P075)
	D17K710	FUEL HANDLING VENTILATION EXHAUST RADIATION MONITOR (H51P086)
	D17K720	RADWASTE BUILDING VENTILATION EXHAUST RADIATION MONITOR (H51P084)
	D17K730	INTERMEDIATE BUILDING VENTILATION EXHAUST RADIATION MONITOR (H51P085)
	D17K760	OFF-GAS BUILDING VENTILATION EXHAUST RADIATION MONITOR (H51P085)
	D17K770	CONTROL ROOM AIRBORNE RADIATION MONITOR (H51P089)
	D17K780	UNIT 1 VENT RADIATION MONITOR (H51P088)
*	D17K820A	UNDERDRAIN SYSTEM RADIATION MONITOR
*	D17K820B	UNDERDRAIN SYSTEM RADIATION MONITOR
*	D17K830	OFF-GAS VENT PIPE RADIATION MONITOR
*	D17K840	STEAM PACKING EXHAUSTER EFFLUENT RADIATION MONITOR
	D17K850	TURBINE BUILDING AND HEATER BAY VENT RADIATION MONITOR (H51P780)

D19 POST ACCIDENT RADIATION MONITORING SYSTEM

	D19P300	MAIN PLANT VENT GAS RADIATION MONITOR
	D19P400	OFF-GAS VENT GAS RADIATION MONITOR
	D19P500	TURBINE BUILDING/HEATER BAY VENT GAS RADIATION MONITOR

D21 AREA RADIATION MONITORING SYSTEM (DETECTOR NUMBERS)

	D21N010	RADIATION MONITOR REACTOR BUILDING	
	D21N020	RADIATION MONITOR REACTOR BUILDING	
	D21N030	PERSONNEL AIR LOCK	ARM
	D21N040	CRD HCU WEST	ARM
	D21N050	RWCU F/D RECEIVING TANK AREA	ARM
	D21N060	TIP DRIVE AREA	ARM
	D21N070	RWCU F/D AREA	ARM
	D21N080	UPPER POOL AREA	ARM
	D21N110	AUXILIARY BUILDING EAST	ARM
	D21N120	AUXILIARY BUILDING WEST	ARM
	D21N130	TURBINE ROOM EAST	ARM
	D21N140	CRD HCU EAST	ARM
	D21N160	TURBINE ROOM WEST	ARM
	D21N170	TURBINE ROOM	ARM
	D21N180	HOTWELL PUMP AREA	ARM
	D21N190	TURBINE BUILDING SUMP AREA	ARM
	D21N200	OFF-GAS BUILDING	ARM
	D21N210	CONDENSATE FILTER PUMP AREA	ARM
	D21N220	OFF-GAS AFTER FILTER AREA	ARM
	D21N230	H P. FEEDWATER HEATER AREA	ARM
	D21N240	FEED PUMP AREA	ARM
	D21N250	RADWASTE BUILDING WEST	ARM
	D21N260	RADWASTE BUILDING EAST	ARM
	D21N270	RADWASTE BUILDING	ARM
	D21N280	PROCESS SAMPLE ROOM	ARM
	D21N290	RADWASTE EVAPORATOR AREA	ARM
	D21N310	FUEL POOL CLEANUP F/D AREA	ARM
	D21N320	FUEL PREPARATION POOL	ARM
	D21N330	SPENT FUEL STORAGE POOL	ARM
	D21N340	DRYWELL	ARM
	D21N370	SOLID RADWASTE DRUMMING AREA	ARM
	D21N380	WASTE COMPACTOR AREA	ARM
*	D21N400	CONTROL ROOM	ARM
*	D21N410	OFF-GAS HOLDUP AREA	ARM
*	D21N420	FUEL POOL COOLING CRCLTN PUMP AREA	ARM

D51 ENVIRONS MONITORING SYSTEM

	D51N100	CONTAINMENT FOUNDATION INSIDE ANNULUS	VS
	D51N101	CONTAINMENT FOUNDATION INSIDE ANNULUS	VE
	D51N110	CONTAINMENT FOUNDATION INSIDE ANNULUS	VS
*	D51N111	ON CONTAINMENT INSIDE ANNULUS	VE
*	D51N120	REACTOR EQUIPMENT INSIDE DRYWELL	VR
*	D51N130	REACTOR CORE COOLING PIPING	VR
	D51N140	HPCS PUMP BASE MAT	VR
	D51N150	CONTAINMENT FOUNDATION INSIDE ANNULUS ON E/W LINE	VS
	D51N160	CONTAINMENT FOUNDATION INSIDE ANNULUS	VR
	D51N170	REACTOR EQUIPMENT INSIDE DRYWELL	VR
*	D51N180	HPCS PUMP BASE MAT	VR
*	D51N190	AUXILIARY BUILDING FOUNDATION MAT 0° CENTER LINE	VR

E12 RESIDUAL HEAT REMOVAL SYSTEM

	E12B001A	HEAT EXCHANGER
	E12B001B	HEAT EXCHANGER
	E12B001C	HEAT EXCHANGER
	E12B001D	HEAT EXCHANGER
	E12C002A	PUMP
	E12C002B	PUMP
	E12C002C	PUMP
	E12C003	WATER LEG PUMP

E21 LOW PRESSURE CORE SPRAY SYSTEM

	E21C001	PUMP
	E21C002	WATER LEG PUMP

E22 HIGH PRESSURE CORE SPRAY SYSTEM

	E22C001	PUMP
	E22C003	WATER LEG PUMP
	E22C004A	DIESEL DRIVEN STARTING AIR COMPRESSOR
	E22C004B	ELECTRICAL DRIVEN STARTING AIR COMPRESSOR
	E22D008	AIR INTAKE FILTER AND SILENCER
	E22D009	EXHAUST SILENCER
	E22P001	HPCS DIESEL GENERATOR CONTROL PANEL
	E22P002	HPCS DIESEL GENERATOR CT AND PT CUBICLE PANEL
	E22S001	DIESEL GENERATOR
	E22S004A	AIR RECEIVER
	E22S004B	AIR RECEIVER
	E22S005	BATTERY RACK

E32 MSIV LEAKAGE CONTROL SYSTEM

	E32C001	BLOWER
	E32C002A	BLOWER
	E32C002B	BLOWER

E51 REACTOR CORE ISOLATION COOLING SYSTEM

	E51C001	PUMP
	E51C002	PUMP TURBINE DRIVE
	E51C003	WATER LEG PUMP
	E51C004	GLAND SEAL COMPRESSOR

F11 FUEL SERVICING EQUIPMENT SYSTEM

*	F11E001A	FUEL PREPARATION MACHINE
*	F11E001B	FUEL PREPARATION MACHINE
*	F11E001C	FUEL PREPARATION MACHINE
*	F11E001D	FUEL PREPARATION MACHINE
	F11E002	NEW FUEL INSPECTION STAND
*	F11E003	CHANNEL BOLT WRENCH
*	F11E010	CHANNEL GAGING FIXTURE
*	F11E014	FUEL HANDLING PLATFORM
*	F11E019A	CHANNEL HANDLING BOOM
	F11E019B	CHANNEL HANDLING BOOM

F13 REACTOR VESSEL SERVICING SYSTEM

	F13E005A	HEAD HOLDING PEDESTAL
	F13E005B	HEAD HOLDING PEDESTAL
	F13E005C	HEAD HOLDING PEDESTAL

F15 REFUELING EQUIPMENT SYSTEM

	F15E003	REFUELING PLATFORM
*	F15E005	AUXILIARY PLATFORM
*	F15E006	REFUELING PLATFORM
*	F15E009	REFUELING BELLOWS

F16 STORAGE EQUIPMENT SYSTEM

	F16E002	FUEL STORAGE RACKS
*	F16E003A	CHANNEL STORAGE RACKS
*	F16E003B	CHANNEL STORAGE RACKS
	F16E013	4-BUNDLE FUEL RACK
	F16E018	FUEL STORAGE RACKS
	F16E019	FUEL STORAGE RACKS

F17 UNDER REACTOR VESSEL SERVICING EQUIPMENT SYSTEM

	F17E005	EQUIPMENT HANDLING PLATFORM

F42 FUEL TRANSFER SYSTEM

	F42D001	INCLINED FUEL TRANSFER TUBE
	F42D002	HYDRAULIC POWER SUPPLY (UPPER POOL)
	F42D003	HYDRAULIC POWER SUPPLY (LOWER POOL)
*	F42E001	WINCH
*	F42P001	REACTOR BUILDING OPERATING PANEL
	F42P003	RELAY PANEL MASTER
	F42P004	FUEL BUILDING OPERATING PANEL

G33 REACTOR WATER CLEANUP SYSTEM

	G33B001A	HEAT EXCHANGER (REGENERATIVE)
	G33B001B	HEAT EXCHANGER (REGENERATIVE)
	G33B001C	HEAT EXCHANGER (REGENERATIVE)
	G33B002A	HEAT EXCHANGER (NON-REGENERATIVE)
	G33B002B	HEAT EXCHANGER (NON-REGENERATIVE)
	G33C001A	PUMP
	G33C001B	PUMP
	G33Z020	REACTOR SAMPLE STATION

G36 RWCU FILTER/DEMINERALIZER SYSTEM

	G36A001	PRECOAT TANK
	G36A002	RESIN FEED TANK
	G36A003	BACKWASH RECEIVING TANK
	G36C001A	HOLDING PUMP
	G36C001B	HOLDING PUMP
	G36C002	PRECOAT PUMP
	G36C003	RESIN METERING PUMP
	G36D001	FILTER/DEMINERALIZER
	G36D002	FILTER/DEMINERALIZER
	G36P001	INSTRUMENT PANEL
	G36P002	CONTROL PANEL

G40 ALTERNATE DECAY HEAT REMOVAL SYSTEM

	G40B0005	HEAT EXCHANGER
	G40C0005	PUMP

G41 FUEL POOL COOLING AND CLEANUP SYSTEM

	G41A001	PRECOAT TANK
	G41A002A	SURGE TANK
	G41A002B	SURGE TANK
	G41A003	FUEL TRANSFER TUBE DRAIN TANK
	G41B001A	HEAT EXCHANGER
	G41B001B	HEAT EXCHANGER
	G41C001A	HOLDING PUMP
	G41C001B	HOLDING PUMP
	G41C002	PRECOAT PUMP
	G41C003A	CIRCULATING PUMP

G41 FUEL POOL COOLING AND CLEANUP SYSTEM (CONT)

	G41C003B	CIRCULATING PUMP
	G41C004	CASK POOL DRAIN PUMP
	G41C005A	FUEL TRANSFER TUBE DRAIN PUMP
	G41C005B	FUEL TRANSFER TUBE DRAIN PUMP
*	G41C006A	BODY FEED PUMP
*	G41C006B	BODY FEED PUMP
*	G41C007	PRECOAT DUST COLLECTOR
*	G41C008	BODY FEED DUST COLLECTOR
	G41D001A	FILTER DEMINERALIZER
	G41D001B	FILTER DEMINERALIZER
	G41D001C	FILTER DEMINERALIZER
	G41D001D	FILTER DEMINERALIZER
*	G41D002A	POST FILTER
*	G41D002B	POST FILTER
	G41D004	BODY FEED TANK

G42 REACTOR RECIRCULATION VALVE FLOW CONTROL

	G42C001	SUPPRESSION POOL CLEANUP PUMP
	G42D002	SUPPRESSION POOL CLEANUP DEMINERALIZER

G50 LIQUID RADWASTE SYSTEM

	G50A001A	WASTE COLLECTOR TANK
	G50A001B	WASTE COLLECTOR TANK
	G50A002A	WASTE SAMPLE TANK
	G50A002B	WASTE SAMPLE TANK
	G50A003A	FLOOR DRAIN COLLECTOR TANK
	G50A003B	FLOOR DRAIN COLLECTOR TANK
	G50A004A	FLOOR DRAIN SAMPLE TANK
	G50A004B	FLOOR DRAIN SAMPLE TANK
	G50A005A	CHEMICAL WASTE TANK
	G50A005B	CHEMICAL WASTE TANK
	G50A006A	CONCENTRATED WASTE TANK
	G50A006B	CONCENTRATED WASTE TANK
	G50A007A	CHEMICAL WASTE DISTILLATE TANK
	G50A007B	CHEMICAL WASTE DISTILLATE TANK
	G50A008A	DETERGENT DRAIN TANK
	G50A008B	DETERGENT DRAIN TANK
	G50A009A	SPENT RESIN TANK
	G50A009B	SPENT RESIN TANK
	G50A010	CONDENSATE FILTER BACKWASH RECEIVING TANK
	G50A011A	CONDENSATE FILTER BACKWASH SETTLING TANK
	G50A011B	CONDENSATE FILTER BACKWASH SETTLING TANK
	G50A013A	RWCU F/D BACKWASH SETTLING TANK
	G50A013B	RWCU F/D BACKWASH SETTLING TANK
	G50A014A	FUEL POOL F/D BACKWASH SETTLING TANK
	G50A014B	FUEL POOL F/D BACKWASH SETTLING TANK
	G50A015	PRECOAT TANK
	G50A016	RESIN FEED TANK
	G50A017	FILTER AID TANK
*	G50A018	HEATING HOT WATER TANK
*	G50A019	FLUSHING HOT WATER TANK
	G50A022	FUEL POOL F/D BACKWASH RECEIVING TANK
	G50A023	PHOSPHATE TANK
	G50A024	WASTE COLLECTOR FILTRATE TANK
	G50A025	FLOOR DRAINS FILTRATE TANK
	G50A026	WASTE COLLECTION FILTER AIR RECEIVER TANK
	G50A027	FLOOR DRAINS FILTER AIR RECEIVER TANK
	G50C001A	WASTE COLLECTOR TRANSFER PUMP
	G50C001B	WASTE COLLECTOR TRANSFER PUMP
	G50C002A	WASTE SAMPLE PUMP
	G50C002B	WASTE SAMPLE PUMP
	G50C003A	FLOOR DRAIN COLLECTOR TRANSFER PUMP
	G50C003B	FLOOR DRAIN COLLECTOR TRANSFER PUMP
	G50C004A	FLOOR DRAIN SAMPLE PUMP
	G50C004B	FLOOR DRAIN SAMPLE PUMP
	G50C005A	CHEMICAL WASTE PUMP
	G50C005B	CHEMICAL WASTE PUMP
	G50C006A	CHEMICAL WASTE DISTILLATE PUMP
	G50C006B	CHEMICAL WASTE DISTILLATE PUMP
	G50C007A	DETERGENT DRAIN PUMP
	G50C007B	DETERGENT DRAIN PUMP
	G50C008A	SPENT RESIN PUMP
	G50C008B	SPENT RESIN PUMP
	G50C009A	CONDENSATE BACKWASH TRANSFER PUMP
	G50C009B	CONDENSATE BACKWASH TRANSFER PUMP
	G50C010A	CONDENSATE SLUDGE DISCHARGE MIXING PUMP
	G50C010B	CONDENSATE SLUDGE DISCHARGE MIXING PUMP
	G50C011A	CONDENSATE SLUDGE DECANT PUMP
	G50C011B	CONDENSATE SLUDGE DECANT PUMP
	G50C012	RWCU BACKWASH TRANSFER PUMP
	G50C013A	RWCU SLUDGE DISCHARGE MIXING PUMP
	G50C013B	RWCU SLUDGE DISCHARGE MIXING PUMP
	G50C014A	RWCU SLUDGE DECANT PUMP
	G50C014B	RWCU SLUDGE DECANT PUMP
	G50C015A	FUEL POOL SLUDGE DISCHARGE MIXING PUMP
	G50C015B	FUEL POOL SLUDGE DISCHARGE MIXING PUMP
	G50C016A	FUEL POOL SLUDGE DECANT PUMP
	G50C016B	FUEL POOL SLUDGE DECANT PUMP
	G50C017	WASTE COLLECTOR FILTRATE PUMP
	G50C018	FLOOR DRAIN FILTRATE PUMP
	G50C019	WASTE COLLECTION FILTER AID PUMP
	G50C020	FLOOR DRAIN FILTER AID PUMP
	G50C021A	PRECOAT PUMP
	G50C021B	PRECOAT PUMP
	G50C022	SPENT RESIN TRANSFER PUMP
	G50C026A	CONCENTRATED WASTE TRANSFER PUMP
	G50C026B	CONCENTRATED WASTE TRANSFER PUMP
	G50C027	FUEL POOL FILTER BACKWASH TRANSFER PUMP
	G50D001	WASTE COLLECTOR FILTER
	G50D002	FLOOR DRAIN FILTER
	G50D003	WASTE DEMINERALIZER
	G50D004	FLOOR DRAIN DEMINERALIZER
	G50D006A	DETERGENT DRAIN FILTER
	G50D006B	DETERGENT DRAIN FILTER
*	G50D011	PRECOAT FEEDER
	G50Z001A	WASTE EVAPORATOR/CONDENSER - SKID "A" ASSEMBLY
	G50Z001B	WASTE EVAPORATOR/CONDENSER - SKID "A" ASSEMBLY
	G50Z002A	WASTE EVAPORATOR/CONDENSER - SKID "B" ASSEMBLY
	G50Z002B	WASTE EVAPORATOR/CONDENSER - SKID "B" ASSEMBLY
	G51B003	HOT WATER HEATER

G51 SOLID RADWASTE DISPOSAL SYSTEM

	G51A001	WASTE MIXING AND DEWATERING TANK
	G51A002	CEMENT SILO
	G51A003	SODIUM SILICATE STORAGE TANK
	G51A004	CEMENT DAY TANK
	G51C001	WASTE FEED PUMP
	G51C003	WASTE/CEMENT MIXING PUMP
	G51D001	WASTE COMPACTOR
	G51E002	TRANSFER CART

G60 FLOOR DRAIN SUMP SYSTEM

*	G60C001A	CIRCULATING WATER PUMP HOUSE SUMP PUMP
*	G60C001B	CIRCULATING WATER PUMP HOUSE SUMP PUMP

G61 LIQUID RADWASTE SUMP SYSTEM

	G61B001	DRYWELL EQUIPMENT DRAIN SUMP COOLER
	G61B002	CONTAINMENT EQUIPMENT DRAIN SUMP COOLER
	G61C001A	DRYWELL EQUIPMENT DRAIN SUMP PUMP
	G61C001B	DRYWELL EQUIPMENT DRAIN SUMP PUMP
	G61C002A	CONTAINMENT EQUIPMENT DRAIN SUMP PUMP
	G61C002B	CONTAINMENT EQUIPMENT DRAIN SUMP PUMP
	G61C003A	RADWASTE BUILDING EQUIPMENT DRAIN SUMP PUMP
	G61C003B	RADWASTE BUILDING EQUIPMENT DRAIN SUMP PUMP
	G61C004A	INTERMEDIATE BUILDING EQUIPMENT DRAIN SUMP PUMP
	G61C004B	INTERMEDIATE BUILDING EQUIPMENT DRAIN SUMP PUMP
	G61C006A	TURBINE LUBE OIL AREA FLOOR DRAIN SUMP PUMP
	G61C006B	TURBINE LUBE OIL AREA FLOOR DRAIN SUMP PUMP
	G61C007A	TURBINE BUILDING COMPLEX EQUIPMENT DRAIN SUMP PUMP
	G61C007B	TURBINE BUILDING COMPLEX EQUIPMENT DRAIN SUMP PUMP
	G61C008A	DRYWELL FLOOR DRAIN SUMP PUMP
	G61C008B	DRYWELL FLOOR DRAIN SUMP PUMP
	G61C009A	CONTAINMENT FLOOR DRAIN SUMP PUMP
	G61C009B	CONTAINMENT FLOOR DRAIN SUMP PUMP
	G61C010	ANNULUS FLOOR DRAIN SUMP PUMP
	G61C011A	INTERMEDIATE BUILDING FLOOR DRAIN SUMP PUMP
	G61C011B	INTERMEDIATE BUILDING FLOOR DRAIN SUMP PUMP
	G61C012A	AUXILIARY BUILDING FLOOR DRAIN SUMP PUMP
	G61C012B	AUXILIARY BUILDING FLOOR DRAIN SUMP PUMP
	G61C013A	CONTROL COMPLEX EQUIPMENT DRAIN SUMP PUMP
	G61C013B	CONTROL COMPLEX EQUIPMENT DRAIN SUMP PUMP
	G61C014A	TURBINE BUILDING COMPLEX FLOOR DRAIN SUMP PUMP
	G61C014B	TURBINE BUILDING COMPLEX FLOOR DRAIN SUMP PUMP
	G61C014C	TURBINE BUILDING COMPLEX FLOOR DRAIN SUMP PUMP
	G61C015A	TURBINE LAYDOWN AREA FLOOR DRAIN SUMP PUMP
	G61C015B	TURBINE LAYDOWN AREA FLOOR DRAIN SUMP PUMP
	G61C016A	RADWASTE BUILDING FLOOR DRAIN SUMP PUMP
	G61C016B	RADWASTE BUILDING FLOOR DRAIN SUMP PUMP
	G61C017A	TURBINE BUILDING COMPLEX CHEMICAL DRAIN SUMP PUMP
	G61C017B	TURBINE BUILDING COMPLEX CHEMICAL DRAIN SUMP PUMP
	G61C018A	CONTROL COMPLEX LAUNDRY & FLOOR DRAIN SUMP PUMP
	G61C018B	CONTROL COMPLEX LAUNDRY & FLOOR DRAIN SUMP PUMP
	G61C019A	FEEDWATER BOOSTER PUMP PIT FLOOR DRAIN SUMP PUMP
	G61C019B	FEEDWATER BOOSTER PUMP PIT FLOOR DRAIN SUMP PUMP
	G61C020A	AUXILIARY BUILDING EQUIPMENT DRAIN SUMP PUMP
	G61C020B	AUXILIARY BUILDING EQUIPMENT DRAIN SUMP PUMP

H13 CONTROL PANEL SYSTEM

*	H13P600	RADIATION MONITORING RECORDER PANEL
*	H13P601	EMERGENCY CORE COOLING SYSTEMS BENCHBOARD
*	H13P604	PROCESS RADIATION MONITORING PANEL
*	H13P610	CONTROL ROD TEST PANEL
*	H13P612	FEEDWATER INSTRUMENTATION PANEL
*	H13P613	PROCESS INSTRUMENTATION PANEL
*	H13P614	NSSS RECORDER PANEL
*	H13P618	DIVISION 2 AUXILIARY RELAY PANEL (RHR "B" & "C")
*	H13P619	JET PUMP MONITORING PANEL
*	H13P621	DIVISION 1 AUXILIARY RELAY PANEL (RCIC)
*	H13P622	DIVISION 2 AUXILIARY RELAY PANEL (INBOARD VALVES)
*	H13P623	DIVISION 1 AUXILIARY RELAY PANEL (OUTBOARD VALVES)
*	H13P625	DIVISION 3 AUXILIARY RELAY PANEL (HPCS)
*	H13P628	DIVISION 1 AUXILIARY RELAY PANEL (ADS CHANNEL "A")
*	H13P629	DIVISION 1 AUXILIARY RELAY PANEL (LPCS & RHR "A")
*	H13P630	ANNUNCIATOR AND SEQUENCE OF EVENTS RECORDER LOGIC PANEL
*	H13P631	DIVISION 2 AUXILIARY RELAY PANEL (ADS CHANNEL "B")
*	H13P632	DIVISION 1 LEAK DETECTION MONITORING PANEL
*	H13P634	RECIRCULATION FLOW CONTROL INSTRUMENTATION PANEL
*	H13P637	PRESSURE REGULATING INSTRUMENTATION PANEL
*	H13P640	START-UP & TRANSIENT TEST PANEL
*	H13P642	DIVISION 2 LEAK DETECTION MONITORING PANEL
*	H13P651	CONTROL ROD POSITION PANEL
*	H13P652	CONTROL ROD POSITION PANEL
*	H13P653	CONTROL ROD DRIVE CONTROL INSTRUMENTATION PANEL
*	H13P654	DIVISION 2 AUXILIARY RELAY PANEL (MSIV LEAK CONTROL SYSTEM)
*	H13P655	DIVISION 1 AUXILIARY RELAY PANEL (MSIV LEAK CONTROL SYSTEM)
*	H13P669	DIVISION 1 NEUTRON POWER & RAD INSTRUMENTATION PANEL
*	H13P670	DIVISION 2 NEUTRON POWER & RAD INSTRUMENTATION PANEL
*	H13P671	DIVISION 3 NEUTRON POWER & RAD INSTRUMENTATION PANEL
*	H13P672	DIVISION 4 NEUTRON POWER & RAD INSTRUMENTATION PANEL
*	H13P680	UNIT CONTROL CONSOLE
*	H13P691	DIVISION 1 RPS INSTRUMENTATION & AUXILIARY RELAY PANEL
*	H13P692	DIVISION 2 RPS INSTRUMENTATION & AUXILIARY RELAY PANEL
*	H13P693	DIVISION 3 RPS INSTRUMENTATION & AUXILIARY RELAY PANEL
*	H13P694	DIVISION 4 RPS INSTRUMENTATION & AUXILIARY RELAY PANEL
*	H13P800	HEATING, VENTILATION, AND AIR CONDITIONING CONTROL PANEL
*	H13P802	FIRE AND SECURITY CONTROL CONSOLE
*	H13P803	AREA RADIATION MONITORING PANEL
*	H13P804	AIRBORNE RADIATION MONITORING PANEL
*	H13P807	MAIN TRANSFORMER RELAY PANEL
*	H13P808	GENERATOR RELAY PANEL
*	H13P809	START-UP TRANSFORMER RELAY PANEL
*	H13P810	UNIT AUXILIARY TRANSFORMER RELAY PANEL
*	H13P811	ELECTRICAL RECORDER PANEL
*	H13P821	EHC PANEL
*	H13P822	TSI PANEL
*	H13P823	TURBINE SUPERVISORY RECORDER PANEL
*	H13P842	BALANCE OF PLANT RECORDER PANEL
*	H13P845	OFF-GAS CONTROL PANEL
*	H13P864	ANALOG LOOP "B" INSTRUMENTATION PANEL
*	H13P865	ANALOG LOOP "A" INSTRUMENTATION PANEL
*	H13P866	"A" AUXILIARY RELAY PANEL
*	H13P867	"B" AUXILIARY RELAY PANEL
*	H13P868	ANALOG LOOP DIVISION 2 INSTRUMENTATION PANEL
*	H13P869	ANALOG LOOP DIVISION 1 INSTRUMENTATION PANEL
*	H13P870	LONG RESPONSE BENCHBOARD
*	H13P871	DIVISION 2 AUXILIARY RELAY PANEL
*	H13P872	DIVISION 1 AUXILIARY RELAY PANEL
*	H13P873	DIVISION 3 AUXILIARY RELAY PANEL
*	H13P874	TYPER CONSOLE
*	H13P875	TYPER CONSOLE
*	H13P877	DIESEL GENERATOR BENCHBOARD
*	H13P902	COMMON AIRBORNE RADIATION MONITORING PANEL
*	H13P903	COMMON AREA RADIATION MONITORING PANEL
*	H13P904	COMMON HVAC CONTROL PANEL
*	H13P905	POC TELETYPER
*	H13P906	COMMON PROCESS RADIATION MONITORING PANEL
*	H13P907	COMMON RADIATION MONITORING RECORDING PANEL
*	H13P908	DAC COMPUTER
*	H13P909	POC COMPUTER
*	H13P910	OSCILLOGRAPH
*	H13P911	SEISMIC MONITORING PANEL
*	H13P969	COMMON ANALOG LOOP INSTRUMENTATION AND AUXILIARY RELAY PANEL
*	H13P970	COMMON LONG RESPONSE CONTROL PANEL

H22 LOCAL PANEL AND RACK SYSTEM (GE)

	H22P001	LPCS INSTRUMENT RACK
	H22P002	RWCU INSTRUMENT RACK
	H22P004A	RV LEVEL AND PRESSURE INSTRUMENT RACK A
	H22P004B	RV LEVEL AND PRESSURE INSTRUMENT RACK A
	H22P004C	RV LEVEL AND PRESSURE INSTRUMENT RACK A
	H22P005	RV LEVEL AND PRESSURE INSTRUMENT RACK C
	H22P006	RECIRCULATING PUMP INSTRUMENT RACK A
	H22P007	CRD AND RV TEMPERATURE RECEIVING PANEL
	H22P008	SRM & IRM DRIVE CONTROL CABINET
	H22P009	JET PUMP INSTRUMENT RACK B
	H22P010	JET PUMP INSTRUMENT RACK A
	H22P011	STANDBY LIQUID CONTROL INSTRUMENT RACK
	H22P015	MAIN STEAM FLOW INSTRUMENT RACK A
	H22P017	RCIC INSTRUMENT RACK
	H22P018	RHR INSTRUMENT RACK A
	H22P021	RHR INSTRUMENT RACK B
	H22P022	RECIRCULATION PUMP INSTRUMENT RACK B
	H22P024	HPCS INSTRUMENT RACK
	H22P025	MAIN STEAM FLOW INSTRUMENT RACK B
	H22P026	RV LEVEL AND PRESSURE INSTRUMENT RACK D
	H22P027	RV LEVEL AND PRESSURE INSTRUMENT RACK B
	H22P030	SRM & IRM PRE-AMP CABINET A
	H22P031	SRM & IRM PRE-AMP CABINET B
	H22P032	SRM & IRM PRE-AMP CABINET C
	H22P033	SRM & IRM PRE-AMP CABINET D
	H22P041	MAIN STEAM FLOW INSTRUMENT RACK D
	H22P042	MAIN STEAM FLOW INSTRUMENT RACK C
	H22P043	FEEDWATER TEMPERATURE MONITORING
	H22P069	RHR INSTRUMENT RACK C
	H22P071	ROD POSITION MULTIPLEXER CABINET A-1
	H22P072	ROD POSITION MULTIPLEXER CABINET B-1
	H22P073	MSIV LEAKAGE TRANSMITTER RACK (DIVISION 1)
	H22P074	MSIV LEAKAGE TRANSMITTER RACK (DIVISION 2)
	H22P080	SRV POSITION MONITOR PANEL
	H22P110A-1	ERIS CABINET DAS PANEL
	H22P110A-2	ERIS CABINET DAS PANEL
	H22P110B-1	ERIS CABINET DAS PANEL
	H22P110B-2	ERIS CABINET DAS PANEL
	H22P110C-1	ERIS CABINET DAS PANEL
	H22P110C-2	ERIS CABINET DAS PANEL
	H22P111A	ERIS CABINET DAS PANEL
	H22P111B	ERIS CABINET DAS PANEL
	H22P112A	ERIS CABINET DAS PANEL
	H22P113	ERIS CABINET DAS PANEL

D21 AREA RADIATION MONITORING SYSTEM (RADMONITOR NUMBERS)

	D21K031	PERSONNEL AIR LOCK
	D21K032	PERSONNEL AIR LOCK
	D21K041	CRD HCU WEST
	D21K051	RWCU F/D RECEIVING TANK AREA
	D21K061	TIP DRIVE AREA
	D21K071	RWCU F/D AREA
	D21K081	UPPER POOL AREA
	D21K082	UPPER POOL AREA PERSONNEL HATCH
	D21K091	REFUELING BRIDGE
	D21K111	AUXILIARY BUILDING EAST
	D21K121	AUXILIARY BUILDING WEST
	D21K131	TURBINE ROOM EAST
	D21K141	CRD HCU EAST
	D21K161	TURBINE ROOM WEST
	D21K171	TURBINE ROOM
	D21K181	HOTWELL PUMP AREA
	D21K191	TURBINE BUILDING SUMP AREA
	D21K201	OFF-GAS BUILDING
	D21K211	CONDENSATE FILTER PUMP AREA
	D21K221	OFF-GAS AFTER FILTER AREA
	D21K231	H P FEEDWATER HEATER AREA
	D21K241	FEEDWATER PUMP AREA
	D21K251	RADWASTE BUILDING WEST
	D21K261	RADWASTE BUILDING EAST
	D21K271	RADWASTE BUILDING
	D21K281	PROCESS SAMPLE ROOM
	D21K291	RADWASTE EVAPORATOR AREA
	D21K311	FUEL POOL CLEANUP F/D AREA
	D21K321	FUEL PREPARATION POOL
	D21K331	SPENT FUEL STORAGE POOL
	D21K341	DRYWELL
	D21K371	SOLID RADWASTE DRUMMING AREA
	D21K381	WASTE COMPACTOR AREA
	D21K391	FUEL SERVICE HANDLING PLATFORM
	D21K411	OFF-GAS HOLDUP AREA
	D21K421	FUEL POOL COOLING CIRCULATION PUMP AREA

NOTES -
1 FOR NOTES, SEE DWG. B-013-020.

(REV. 18 10/13)

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

EQUIPMENT LIST

FIGURE 1.2-1 SHEET 1 OF 3
(DWG. 013-0018-00000)

H51 LOCAL PANEL AND RACK SYSTEM (NON-GE)

*	H51P002	PERMANENT POTABLE WATER CONTROL PANEL
	H51P005	MAIN CONDENSER CLEAN CONTROL PANEL
*	H51P006	SERVICE WATER SCREEN WASH SYSTEM PANEL
	H51P007	AUXILIARY CONDENSER CLEAN CONTROL PANEL
	H51P009	TURBINE PLANT SAMPLING ANALYZER PANEL
*	H51P010A	EMERGENCY SERVICE WATER SCREEN CONTROL PANEL – A
*	H51P010B	EMERGENCY SERVICE WATER SCREEN CONTROL PANEL – B
	H51P012A	INSTRUMENT CABINET – MOVABLE
	H51P012B	INSTRUMENT CABINET – MOVABLE
	H51P012C	INSTRUMENT CABINET – MOVABLE
	H51P013	CONDENSATE DEMINERALIZER CONTROL PANEL
	H51P014	CONDENSATE FILTER CONTROL PANEL
	H51P015	CONDENSATE FILTER CONTROL PANEL
	H51P016	MAKEUP WATER PRETREATMENT CONTROL PANEL
	H51P017	MAKEUP WATER DEMINERALIZER CONTROL PANEL
	H51P022A	H_2 ANALYZER A VERTICAL PANEL
	H51P022B	H_2 ANALYZER B VERTICAL PANEL
*	H51P027	SERVICE WATER CHLORINATION PANEL
*	H51P028	EMERGENCY SERVICE WATER CHLORINATION PANEL
*	H51P031A	RADWASTE CONTROL PANEL
*	H51P031B	RADWASTE CONTROL PANEL
*	H51P032	BULK HYDROGEN STORAGE GAUGE PANEL
	H51P033	M21 SYSTEM HVAC PANEL
*	H51P034	SODIUM HYPOCHLORITE GENERATION CONTROL PANEL
*	H51P036	DECHLORINATION-CONTROL PANEL
	H51P037	PUMP ROOM COOLING HVAC CONTROL PANEL
	H51P038	EC COOLING SYSTEM AND ES M20 SYSTEM INSTRUMENT RACK
	H51P040	M33 SYSTEM HVAC PANEL
	H51P041	M42 SYSTEM HVAC PANEL
	H51P042	M35 SYSTEM HVAC PANEL
	H51P044	TURBINE BUILDING CHILLED WATER CONTROL PANEL
	H51P049	M37 SYSTEM VENTILATION FAN SC
	H51P051	SERVICE AIR COMPRESSOR CONTROL PANEL
	H51P052	COOLING TOWER CHLORINATION CONTROL PANEL
	H51P053	COOLING TOWER RESIDUAL CHLORINE ANALYZER PANEL
	H51P054A	STANDBY DIESEL – ENGINE CONTROL PANEL
	H51P054B	STANDBY DIESEL – ENGINE CONTROL PANEL
	H51P055A	STANDBY DIESEL – GENERATOR CONTROL PANEL
	H51P055B	STANDBY DIESEL – GENERATOR CONTROL PANEL
*	H51P057	INSTRUMENT AIR COMPRESSOR CONTROL PANEL
	H51P061	STEAM SEAL EVAPORATOR CONTROL PANEL
	H51P062	STEAM SEAL CONTROL PANEL
*	H51P063	COOLING TOWER ACID ADDITION CONTROL PANEL
	H51P064	RADWASTE BUILDING VENTILATION EXHAUST RADIATION MONITOR
	H51P065	INTERMEDIATE BUILDING VENTILATION EXHAUST RADIATION MONITOR
	H51P066	FUEL HANDLING BUILDING VENTILATION EXHAUST RADIATION MONITOR
	H51P068	CONTROL ROOM AIRBORNE RADIATION MONITOR
	H51P070	CONTAINMENT EXHAUST RADIATION MONITOR
	H51P071	DRYWELL ATMOSPHERE RADIATION MONITOR
	H51P072	CONTAINMENT ATMOSPHERE RADIATION MONITOR
	H51P073	ANNULUS EXHAUST TRAIN "A" RADIATION MONITOR
	H51P074	ANNULUS EXHAUST TRAIN "B" RADIATION MONITOR
	H51P076A	INTERBUS TRANSFORMER LH-1-A PROTECTION RELAY PANEL
	H51P076B	INTERBUS TRANSFORMER LH-1-A PROTECTION RELAY PANEL
	H51P076C	INTERBUS TRANSFORMER LH-1-A PROTECTION RELAY PANEL
	H51P077A	EMERGENCY SERVICE WATER SCREEN CONTROL STATION A AND B
	H51P077B	EMERGENCY SERVICE WATER SCREEN CONTROL STATION A AND B
	H51P078A	SERVICE WATER SCREEN WASH CONTROL STATION A AND B
	H51P078B	SERVICE WATER SCREEN WASH CONTROL STATION A AND B
	H51P084A	RHR TUBE BUNDLE WATER REMOVAL PUMP
	H51P084B	RHR TUBE BUNDLE WATER REMOVAL PUMP
	H51P085	OFF-GAS BUILDING VENTILATION EXHAUST RADIATION MONITOR
	H51P086	UNIT VENT 1 RADIATION MONITOR
	H51P075	AUXILIARY BUILDING VENTILATION EXHAUST RADIATION MONITOR
	H51P144	TERMINATION CABINET
	H51P091	MOISTURE SEPARATOR REHEATER CONTROL PANEL
	H51P092	SOLID RADWASTE DISPOSAL CONTROL PANEL
	H51P093	CONDENSER WATER BOX CONTROL STATION
*	H51P094	POST LOCA HYDROGEN RECOMBINER A CONTROL PANEL
*	H51P095	POST LOCA HYDROGEN RECOMBINER B CONTROL PANEL
*	H51P096	INSTRUMENT AIR DRYER A CONTROL PANEL
*	H51P097	INSTRUMENT AIR DRYER B CONTROL PANEL
	H51P098	FEEDWATER AND REHEAT STEAM SYSTEM INSTRUMENT RACK
	H51P100	AUXILIARY BOILER CHEMICAL TREATING CONTROL PANEL
*	H51P101	DIESEL FIRE PUMP CONTROL PANEL
*	H51P102	ELECTRIC FIRE PUMP CONTROL PANEL
	H51P132	OFF-GAS VAULT SYSTEM REFRIGERATION PANEL
	H51P133A	TRAVELING BELT FILTER CONTROL PANEL
	H51P133B	TRAVELING BELT FILTER CONTROL PANEL
	H51P133C	TRAVELING BELT FILTER CONTROL PANEL
	H51P134A	CONTAINMENT ATMOSPHERE MONITOR INSTRUMENT PANEL A
	H51P134B	CONTAINMENT ATMOSPHERE MONITOR INSTRUMENT PANEL B
	H51P146	OFF-GAS VENT PIPE AIR SAMPLING PANEL
	H51P149	PLANT VENT AIR SAMPLING RACK
	H51P169	OFF-GAS VENT PIPE RADIATION MONITOR
*	H51P170	MAINTENANCE CALIBRATION PATCH PANEL
	H51P172	AUXILIARY BUILDING AND STEAM TUNNEL HVAC CONTROL PANEL
	H51P173	FUEL POOL FILTER DEMINERALIZER CONTROL PANEL
	H51P175A	CONDENSATE FILTER UNIT A INSTRUMENT RACK
	H51P175B	CONDENSATE FILTER UNIT B INSTRUMENT RACK
	H51P175C	CONDENSATE FILTER UNIT C INSTRUMENT RACK
	H51P175D	CONDENSATE FILTER UNIT D INSTRUMENT RACK
	H51P175E	CONDENSATE FILTER UNIT E INSTRUMENT RACK
	H51P175F	CONDENSATE FILTER UNIT F INSTRUMENT RACK
	H51P175G	CONDENSATE FILTER UNIT G INSTRUMENT RACK
	H51P175H	CONDENSATE FILTER UNIT H INSTRUMENT RACK
	H51P175J	CONDENSATE FILTER PRECOAT TANK INSTRUMENT RACK
	H51P176	H_2 AND COOLING WATER CONTROL PANEL
	H51P177A	M23/M24 SYSTEM HVAC PANEL A
	H51P177B	M23/Y24 SYSTEM HVAC PANEL B
	H51P178	EMERGENCY CLOSED COOLING SYSTEM INSTRUMENT RACK
	H51P179	MOISTURE SEPARATOR DRAIN TANK – B LEVEL INSTRUMENT RACK
	H51P180	MOISTURE SEPARATOR DRAIN TANK – A LEVEL INSTRUMENT RACK
	H51P181	DRAIN TANK – A – LEVEL CONTROL RACK
	H51P182	HOTWELL PUMPS PRESSURE TRANSMITTER RACK
	H51P183	TURB BLDG CONDENSATE BOOSTER PUMPS A AND B LEVEL INSTR RACK
	H51P184	MOISTURE SEPARATOR DRAIN TANK – B – LEVEL INSTRUMENT RACK
	H51P185	TURBINE BUILDING CLOSED COOLING PUMP DISCHARGE INSTRUMENT RACK
	H51P186	MAIN STEAM LINES PRESSURE TRANSMITTER RACK
	H51P187	INSTRUMENTATION RACK
	H51P188	INSTRUMENTATION RACK
*	H51P189	INSTRUMENTATION RACK
	H51P190	INSTRUMENTATION RACK
	H51P191	INSTRUMENTATION RACK
	H51P192	INSTRUMENTATION RACK
*	H51P193	INSTRUMENTATION RACK
	H51P194	INSTRUMENTATION RACK
	H51P195	INSTRUMENTATION RACK
*	H51P196	FIRE PUMP CONTROLLER PANEL
*	H51P313	TURBINE BUILDING CHILLER CONTROL PANEL A
*	H51P314	TURBINE BUILDING CHILLER CONTROL PANEL B
*	H51P315	CONTAINMENT CHILLER A CONTROL PANEL
*	H51P316	CONTAINMENT CHILLER B CONTROL PANEL
*	H51P317	CONTAINMENT CHILLER C CONTROL PANEL
*	H51P318	CONTROL COMPLEX CHILLER A CONTROL PANEL
*	H51P319	CONTROL COMPLEX CHILLER B CONTROL PANEL
*	H51P320	CONTROL COMPLEX CHILLER C CONTROL PANEL
*	H51P321	OFF-GAS VAULT BRINE COOLING CONTROL PANEL A1
*	H51P322	OFF-GAS VAULT BRINE COOLING CONTROL PANEL A2
*	H51P323	OFF-GAS VAULT BRINE COOLING CONTROL PANEL B1
*	H51P324	OFF-GAS VAULT BRINE COOLING CONTROL PANEL B2
*	H51P325	OFF-GAS VAULT BRINE COOLING CONTROL PANEL C1
*	H51P326	OFF-GAS VAULT BRINE COOLING CONTROL PANEL C2
*	H51P328	TURBINE PLANT SAMPLE EXTRACTION PUMP CONTROL PANEL
	H51P333	HOT WATER HEATING SYSTEM CONTROL PANEL
	H51P750	MOISTURE SEPARATOR REHEATER #2 INSTRUMENT RACK
	H51P756	TURBINE BUILDING AND HEATER BAY VENT RADIATION MONITOR (017K850)
	H51P767	TURBINE BUILDING AND HEATER BAY AUTO ISOKENETIC SAMPLE SINK

H51 LOCAL PANEL AND RACK SYSTEM (NON-GE) (CONTINUED)

	H51P758	DEMINERALIZER CONTROL PANEL
	H51P769	EMERGENCY CLOSED COOLING WATER TEMPERATURE INDI STATION
	H51P862	PH SAMPLE – CHEMICAL WASTE TANKS – PANEL
	H51P886	FAN AND HEATER DIVISION 2 CONTROL STATION
	H51P887	KIRK KEY CONTROL PANEL
	H51P890	KIRK KEY CONTROL PANEL
	H51P903	GAS BOTTLE RACK
	H51P931	ERIS DAC VACUUM
	H51P932	LOCAL ERIS DAC
	H51P933	NSSS AND BOP PIPE TEST CABINET
	H51P934	BOP PIPE TEST CABINET
	H51P962	REMOTE SHUTDOWN C85 SPDS ELECTRONIC CABINET
	H51P990A	STANDBY DIESEL - SPEED CONTROL PANEL
	H51P990B	STANDBY DIESEL - SPEED CONTROL PANEL
	H51P1500	ADHR PROCESS CONTROL PANEL
	H51P5293	ADHR SW FILTER CONTROL PANEL
	H51P5294	ADHR SW FILTER INSTRUMENT RACK

L51 CRANES HOISTS ETC

	L51E001	POLAR CRANE
	L51E002A	TURBINE ROOM CRANE
	L51E002B	TURBINE ROOM CRANE
	L51E003	FUEL HANDLING AREA CRANE
*	L51E004	EMERGENCY SERVICE WATER PUMP HOUSE CRANE
*	L51E005	CIRCULATING WATER PUMP HOUSE CRANE
*	L51E012	SERVICE WATER PUMP HOUSE CRANE

M11 CONTAINMENT VESSEL COOLING SYSTEM

M11B001A	AIR HANDLING UNIT
M11B001B	AIR HANDLING UNIT
M11B001C	AIR HANDLING UNIT
M11B001D	AIR HANDLING UNIT
M11B001E	AIR HANDLING UNIT
M11B001F	AIR HANDLING UNIT

M13 DRYWELL COOLING SYSTEM

M13B001	SUPPLY PLENUM
M13B002	SUPPLY PLENUM
M13B003	SUPPLY PLENUM
M13C001A	SUPPLY FAN
M13C001B	SUPPLY FAN
M13C002A	SUPPLY FAN
M13C003A	SUPPLY FAN
M13C003B	SUPPLY FAN

M14 CONTAINMENT VESSEL & DRYWELL PURGE SYSTEM

M14B001A	PURGE SUPPLY PLENUM
M14B001B	PURGE SUPPLY PLENUM
M14C001A	C.V. SUPPLY FAN
M14C001B	C.V. SUPPLY FAN
M14C003A	EXHAUST FAN
M14C003B	EXHAUST FAN
M14B001A	EXHAUST PLENUM
M14B001B	EXHAUST PLENUM

M15 ANNULUS EXHAUST GAS TREATMENT SYSTEM

M15C001A	FAN
M15C001B	FAN
M15D001A	PLENUM
M15D001B	PLENUM

M21 CONTROLLED ACCESS AND MISC EQUIPMENT AREA HVAC SYSTEM

M21B001A	AREA HVAC SUPPLY PLENUM
M21B001B	AREA HVAC SUPPLY PLENUM
M21C001A	AREA EXHAUST FAN
M21C001B	AREA EXHAUST FAN
M21C002A	AREA SUPPLY FAN
M21C002B	AREA SUPPLY FAN
M21C003A	AREA RETURN FAN
M21C003B	AREA RETURN FAN
M21D001A	EXHAUST PLENUM
M21D001B	EXHAUST PLENUM

M23 MCC SWGR AND MISC ELECTRICAL EQUIPMENT AREA HVAC SYSTEM

M23B001A	SUPPLY PLENUM
M23B001B	SUPPLY PLENUM
M23C001A	SUPPLY FAN
M23C001B	SUPPLY FAN
M23C002A	RETURN FAN
M23C002B	RETURN FAN

M24 BATTERY ROOM EXHAUST SYSTEM

M24C001A	FAN
M24C001B	FAN

M25 CONTROL ROOM HVAC SYSTEM

M25B001A	SUPPLY PLENUM
M25B001B	SUPPLY PLENUM
M25C001A	SUPPLY FAN
M25C001B	SUPPLY FAN
M25C002A	RETURN FAN
M25C002B	RETURN FAN

M26 CONTROL ROOM EMERGENCY RECIRCULATION SYSTEM

M26C001A	CONTROL ROOM EMERGENCY RECIRCULATION FAN
M26C001B	CONTROL ROOM EMERGENCY RECIRCULATION FAN
M26D001A	CONTROL ROOM EMERGENCY RECIRCULATION PLENUM
M26D001B	CONTROL ROOM EMERGENCY RECIRCULATION PLENUM

M27 COMPUTER ROOM HVAC SYSTEM

M27B001A	AIR HANDLING UNIT
M27B001B	AIR HANDLING UNIT

M28 EMERGENCY PUMP AREA COOLING SYSTEM

M28B001A	AIR HANDLING UNIT
M28B001B	AIR HANDLING UNIT

M31 RADWASTE BUILDING VENTILATION SYSTEM

M31B001	RADWASTE BUILDING SUPPLY PLENUM
M31C001A	RADWASTE BUILDING SUPPLY FAN
M31C001B	RADWASTE BUILDING SUPPLY FAN
M31C002A	RADWASTE BUILDING EXHAUST FAN
M31C002B	RADWASTE BUILDING EXHAUST FAN
M31D001A	EXHAUST PLENUM
M31D001B	EXHAUST PLENUM

M32 EMERGENCY SERVICE WATER PUMP HOUSE VENTILATING SYSTEM

*	M32C001A	FAN
*	M32C001B	FAN

M33 INTERMEDIATE BUILDING VENTILATION SYSTEM

M33B001	INTERMEDIATE BUILDING SUPPLY PLENUM
M33C001	INTERMEDIATE BUILDING SUPPLY FAN
M33C002	EXHAUST FAN

M35 TURBINE BUILDING VENTILATION SYSTEM

M35B001A	TURBINE BUILDING SUPPLY PLENUM
M35B001B	TURBINE BUILDING SUPPLY PLENUM
M35B001C	TURBINE BUILDING SUPPLY PLENUM
M35C001A	TURBINE BUILDING SUPPLY FAN
M35C001B	TURBINE BUILDING SUPPLY FAN
M35C001C	TURBINE BUILDING SUPPLY FAN

M36 OFF-GAS BUILDING EXHAUST SYSTEM

M36C001A	OFF-GAS EXHAUST FAN
M36C001B	OFF-GAS EXHAUST FAN
M36D001A	OFF-GAS EXHAUST PLENUM
M36D001B	OFF-GAS EXHAUST PLENUM

M37 WATER TREATMENT BUILDING VENTILATION SYSTEM

M37C001A	WATER TREATMENT BUILDING ROOF EXHAUSTER
M37C001B	WATER TREATMENT BUILDING ROOF EXHAUSTER

M38 AUXILIARY BUILDING VENTILATION SYSTEM

M38B001	AUXILIARY BUILDING SUPPLY PLENUM
M38C001A	AUXILIARY BUILDING SUPPLY FAN
M38C001B	AUXILIARY BUILDING SUPPLY FAN
M38C002A	AUXILIARY BUILDING EXHAUST FAN
M38C002B	AUXILIARY BUILDING EXHAUST FAN
M38D001	AUXILIARY BUILDING EXHAUST PLENUM
M38B007	LPCS PUMP ROOM A/C UNIT
M38B008	ADHR HEAT EXCHANGER AREA A/C UNIT

M39 PUMP ROOM COOLING SYSTEM

M39B001A	RHR A AIR HANDLING UNIT
M39B001B	RHR B AIR HANDLING UNIT
M39B002	RHR C AIR HANDLING UNIT
M39B003	HPCS PUMP ROOM AIR HANDLING UNIT
M39B004	RCIC PUMP ROOM AIR HANDLING UNIT
M39B006	LPCS PUMP ROOM AIR HANDLING UNIT

M40 FUEL HANDLING BUILDING VENTILATION SYSTEM

M40B001	SUPPLY PLENUM
M40C001A	SUPPLY FAN
M40C001B	SUPPLY FAN
M40C002A	EXHAUST FAN
M40C002B	EXHAUST FAN
M40C002C	EXHAUST FAN
M40D001A	EXHAUST PLENUM
M40D001B	EXHAUST PLENUM
M40D001C	EXHAUST PLENUM

M41 HEATER BAY VENTILATION SYSTEM

M41C001A	SUPPLY FAN
M41C001B	SUPPLY FAN

M42 TURBINE POWER COMPLEX VENTILATION SYSTEM

M42B001	SUPPLY PLENUM
M42C001A	SUPPLY FAN
M42C001B	SUPPLY FAN

M43 DIESEL GENERATOR BUILDING VENTILATION SYSTEM

M43C001A	VENTILATION FAN
M43C001B	VENTILATION FAN
M43C001C	VENTILATION FAN
M43C002A	VENTILATION FAN
M43C002B	VENTILATION FAN
M43C002C	VENTILATION FAN

M45 CIRCULATING WATER PUMP HOUSE VENTILATION SYSTEM

*	M45C001A	ROOF EXHAUSTER
*	M45C001B	ROOF EXHAUSTER
*	M45C001C	ROOF EXHAUSTER

M46 MISCELLANEOUS VENTILATION SYSTEM

	M46B020	IN SERVICE INSPECTION ROOM AIR HANDLING UNIT
	M46C003	AUXILIARY BOILER HOUSE ROOF EXHAUSTER
*	M46C008A	SERVICE WATER PUMP HOUSE VENTILATION FAN
*	M46C008B	SERVICE WATER PUMP HOUSE VENTILATION FAN
*	M46C009A	DIESEL DRIVEN FIRE PUMP AREA VENTILATION FAN
*	M46C009B	DIESEL DRIVEN FIRE PUMP AREA VENTILATION FAN
*	M46C010	INTERMEDIATE BUILDING ELEVATOR MACHINERY ROOM ROOF EXHAUSTER
*	M46C011	AUXILIARY BUILDING ELEVATOR MACHINERY ROOM ROOF EXHAUSTER
*	M46C012	RADWASTE BUILDING ELEVATOR MACHINERY ROOM ROOF EXHAUSTER
*	M46C013	TURBINE BUILDING ELEVATOR MACHINERY ROOM ROOF EXHAUSTER
*	M46C014	CONTROL COMPLEX ELEVATOR MACHINERY ROOM ROOF EXHAUSTER
*	M46C015	DISCHARGE TUNNEL DECHLORINATION EQUIPMENT BLDG ROOF EXHAUSTER
*	M46C016	FUEL OIL PUMP HOUSE ROOF EXHAUSTER
*	M46C017	HYPLOCHLORITE GENERATION BUILDING ROOF EXHAUSTER

M47 STEAM TUNNEL VENTILATION SYSTEM

M47B001	SUPPLY PLENUM

M49 RADWASTE BUILDING CONTROL ROOM HVAC SYSTEM

M49B001	AIR CONDITIONING UNIT

M51 COMBUSTIBLE GAS CONTROL SYSTEM

M51C001A	COMBUSTIBLE GAS PURGE UNIT
M51C001B	COMBUSTIBLE GAS PURGE UNIT
M51D001A	POST LOCA HYDROGEN RECOMBINER A
M51D001B	POST LOCA HYDROGEN RECOMBINER B

N21 CONDENSATE SYSTEM

N21B001A	LOW PRESSURE FEEDWATER HEATER 1A
N21B001B	LOW PRESSURE FEEDWATER HEATER 1B
N21B001C	LOW PRESSURE FEEDWATER HEATER 1C
N21B002A	LOW PRESSURE FEEDWATER HEATER 2A
N21B002B	LOW PRESSURE FEEDWATER HEATER 2B
N21B002C	LOW PRESSURE FEEDWATER HEATER 2C
N21B003A	LOW PRESSURE FEEDWATER HEATER 3A
N21B003B	LOW PRESSURE FEEDWATER HEATER 3B
N21B004	DIRECT CONTACT HEATER & HOT SURGE TANK
N21C001A	HOTWELL PUMP
N21C001B	HOTWELL PUMP
N21C001C	HOTWELL PUMP
N21C002A	CONDENSATE BOOSTER PUMP
N21C002B	CONDENSATE BOOSTER PUMP
N21C002C	CONDENSATE BOOSTER PUMP

N23 CONDENSATE FILTRATION SYSTEM

	N23A001	CONDENSATE FILTER PRECOAT TANK ABANDONED IN PLACE
	N23C004F	CONDENSATE FILTER HOLDING PUMP
	N23D001A	CONDENSATE FILTER
	N23D001B	CONDENSATE FILTER
	N23D001C	CONDENSATE FILTER
	N23D001D	CONDENSATE FILTER
	N23D001E	CONDENSATE FILTER
	N23D001F	CONDENSATE FILTER
	N23D001G	CONDENSATE FILTER
	N23D001H	CONDENSATE FILTER
	N23D002	CONDENSATE FILTER PRECOAT HOPPER ABANDONED IN PLACE
*	N23D003	CONDENSATE FILTER PRECOAT BELT FEEDER ABANDONED IN PLACE
*	N23D004	CONDENSATE FILTER PRECOAT DUST COLLECTOR ABANDONED IN PLACE

N24 CONDENSATE DEMINERALIZER SYSTEM

N24A001	CONDENSATE DEMINERALIZER CATION REGENERATION TANK
N24A002	CONDENSATE DEMINERALIZER ANION REGENERATION TANK
N24A003	CONDENSATE DEMINERALIZER MIX AND HOLD TANK
N24A004	CONDENSATE DEMINERALIZER BACKWASH RINSE RECEIVING TANK
N24A005	CONDENSATE DEMINERALIZER REGENERATION CHEMICAL RECEIVING TANK
N24A006	CONDENSATE DEMINERALIZER SULFURIC ACID STORAGE TANK
N24A007	CONDENSATE DEMINERALIZER CAUSTIC SODA STORAGE TANK
N24A008	CONDENSATE DEMINERALIZER RESIN ADDITION TANK
N24B001	CONDENSATE DEMINERALIZER HOT WATER TANK
N24C001A	WASTE TRANSFER PUMP
N24C001B	WASTE TRANSFER PUMP
N24C001C	WASTE TRANSFER PUMP
N24C002A	CONDENSATE DEMINERALIZER SULFURIC ACID PUMP
N24C002B	CONDENSATE DEMINERALIZER SULFURIC ACID PUMP
N24C003A	CONDENSATE DEMINERALIZER CAUSTIC SODA PUMP
N24C003B	CONDENSATE DEMINERALIZER CAUSTIC SODA PUMP
N24C004	CHILLER CIRCULATION PUMP
N24D001A	CONDENSATE DEMINERALIZER
N24D001B	CONDENSATE DEMINERALIZER
N24D001C	CONDENSATE DEMINERALIZER
N24D001D	CONDENSATE DEMINERALIZER
N24D001E	CONDENSATE DEMINERALIZER
N24D001F	CONDENSATE DEMINERALIZER
N24D002	SAMPLE COOLER
N24J001	EFFLUENT SAMPLE RACK

N25 HIGH PRESSURE HEATER DRAIN AND VENT SYSTEM

*	N25A001A	MOISTURE SEPARATOR DRAIN TANK
*	N25A001B	MOISTURE SEPARATOR DRAIN TANK
	N25A002A	MOISTURE SEPARATOR FIRST STAGE REHEAT DRAIN TANK
	N25A002B	MOISTURE SEPARATOR FIRST STAGE REHEAT DRAIN TANK
	N25A003A	MOISTURE SEPARATOR SECOND STAGE REHEAT DRAIN TANK
	N25A003B	MOISTURE SEPARATOR SECOND STAGE REHEAT DRAIN TANK
*	N25A004A	MOISTURE SEPARATOR DRAIN TANK
*	N25A004B	MOISTURE SEPARATOR DRAIN TANK
	N25A005A	MOISTURE SEPARATOR FIRST STAGE REHEAT DRAIN TANK
	N25A005B	MOISTURE SEPARATOR FIRST STAGE REHEAT DRAIN TANK
	N25A006A	MOISTURE SEPARATOR SECOND STAGE REHEAT DRAIN TANK
	N25A006B	MOISTURE SEPARATOR SECOND STAGE REHEAT DRAIN TANK
	N25B001A	MOISTURE SEPARATOR REHEATER
	N25B001B	MOISTURE SEPARATOR REHEATER
	N25B002A	MOISTURE SEPARATOR REHEATER
	N25B002B	MOISTURE SEPARATOR REHEATER

N27 FEEDWATER SYSTEM

N27A001	REACTOR FEED PUMP SEAL LEAK-OFF DRAIN TANK
N27B001A	INTERMEDIATE PRESSURE FEEDWATER HEATER 5A
N27B001B	INTERMEDIATE PRESSURE FEEDWATER HEATER 5B
N27B002A	HIGH PRESSURE FEEDWATER HEATER 6A
N27B002B	HIGH PRESSURE FEEDWATER HEATER 6B
N27B003A	HEATER 5A DRAIN COOLER
N27B003B	HEATER 5B DRAIN COOLER
N27C001A	FEEDWATER BOOSTER PUMP
N27C001B	FEEDWATER BOOSTER PUMP
N27C001C	FEEDWATER BOOSTER PUMP
N27C001D	FEEDWATER BOOSTER PUMP
N27C002A	MAIN FEEDWATER PUMP
N27C002B	MAIN FEEDWATER PUMP
N27C003A	MAIN FEEDWATER PUMP DRIVE TURBINE
N27C003B	MAIN FEEDWATER PUMP DRIVE TURBINE
N27C004	MOTOR DRIVEN FEEDWATER PUMP
N27C005A	SEAL WATER INJECTION PUMP
N27C005B	SEAL WATER INJECTION PUMP
N27D002	MOTOR DRIVEN FEEDWATER PUMP LUBE OIL CONSOLE
N27D050A	SEAL WATER TEMPERATURE CONTROL PANEL
N27D050B	SEAL WATER TEMPERATURE CONTROL PANEL

N31 TURBINE SYSTEM

N31C001	MAIN TURBINE

N32 TURBINE CONTROL SYSTEM

N32J001	HYDRAULIC FLUID POWER UNIT

N33 STEAM SEAL SYSTEM

N33B001	STEAM PACKING EXHAUSTER
N33B002	STEAM SEAL EVAPORATOR

N34 LUBE OIL SYSTEM

N34A001	TURBINE LUBE OIL TANK
N34D001	TURBINE LUBE OIL PURIFIER
N34D002A	FEEDWATER TURBINE LUBE OIL PURIFIER
N34D002B	FEEDWATER TURBINE LUBE OIL PURIFIER

N41 GENERATOR SYSTEM

N41C001	GENERATOR
N41S001	GENERATOR NEUTRAL GROUNDING TRANSFORMER
N41S002	EXCITATION CUBICLE

N42 HYDROGEN SEAL SYSTEM

N42D001	HYDROGEN SEAL UNIT

N43 GENERATOR STATOR COOLING SYSTEM

N43B001	GENERATOR STATOR COOLING UNIT

N61 CONDENSER AND AUXILIARIES SYSTEM

N61B001A	MAIN CONDENSER
N61B001B	MAIN CONDENSER
N61B001C	MAIN CONDENSER
N61B002A	AUXILIARY CONDENSER
N61B002B	AUXILIARY CONDENSER

N62 CONDENSER AIR REMOVAL SYSTEM

N62C001A	CONDENSER VACUUM PUMP
N62C001B	CONDENSER VACUUM PUMP
N62C002A	STEAM JET AIR EJECTOR
N62C002B	STEAM JET AIR EJECTOR

N64 OFF-GAS SYSTEM

*	N64A001	OFF-GAS CHARCOAL VAULT REFRIGERATION EXPANSION TANK
	N64B001A	OFF-GAS PREHEATER
	N64B001B	OFF-GAS PREHEATER
	N64B002	OFF-GAS CONDENSER
	N64B010A	OFF-GAS COOLER CONDENSER
	N64B010B	OFF-GAS COOLER CONDENSER
	N64B011A	OFF-GAS COOLER
	N64B011B	OFF-GAS COOLER
	N64B012A	OFF-GAS VAULT REFRIGERATION AIR HANDLING UNIT
	N64B012B	OFF-GAS VAULT REFRIGERATION AIR HANDLING UNIT
	N64B012C	OFF-GAS VAULT REFRIGERATION AIR HANDLING UNIT
	N64B012D	OFF-GAS VAULT REFRIGERATION AIR HANDLING UNIT
	N64B013A	OFF-GAS VAULT REFRIGERATION BRINE COOLING PACKAGE
	N64B013B	OFF-GAS VAULT REFRIGERATION BRINE COOLING PACKAGE
	N64B013C	OFF-GAS VAULT REFRIGERATION BRINE COOLING PACKAGE
	N64C001A	OFF-GAS CHARCOAL VAULT REFRIGERATION COOLING PUMP
	N64C001B	OFF-GAS CHARCOAL VAULT REFRIGERATION COOLING PUMP
*	N64D001	FILTER DRYER
	N64D005A	OFF-GAS CATALYTIC RECOMBINER
	N64D005B	OFF-GAS CATALYTIC RECOMBINER
*	N64D006	OFF-GAS WATER SEPARATOR
*	N64D010A	OFF-GAS MOISTURE SEPARATOR
*	N64D010B	OFF-GAS MOISTURE SEPARATOR
	N64D011A	OFF-GAS PREFILTER
	N64D011B	OFF-GAS PREFILTER
	N64D012A	OFF-GAS CHARCOAL ABSORBER
	N64D012B	OFF-GAS CHARCOAL ABSORBER
	N64D013A	OFF-GAS CHARCOAL ABSORBER
	N64D013B	OFF-GAS CHARCOAL ABSORBER
	N64D014A	OFF-GAS CHARCOAL ABSORBER
	N64D014B	OFF-GAS CHARCOAL ABSORBER
	N64D015A	OFF-GAS CHARCOAL ABSORBER
	N64D015B	OFF-GAS CHARCOAL ABSORBER
	N64D016A	OFF-GAS AFTER FILTER
	N64D016B	OFF-GAS AFTER FILTER
	N64D030A	OFF-GAS DESICCANT DRYER
	N64D030B	OFF-GAS DESICCANT DRYER

N64 OFF-GAS SYSTEM (CONTINUED)

	N64D030C	OFF-GAS DESICCANT DRYER
	N64D030D	OFF-GAS DESICCANT DRYER
*	N64N012A	H_2 ANALYZER
*	N64N012B	H_2 ANALYZER
	N64P001	OFF-GAS PANEL
	N64P002	OFF-GAS PANEL
	N64P004A,B	OFF-GAS DRYER CONTROL PANEL
*	N64P800	MCR VERTICAL BOARD PANEL
	N64Z001	GLYCOL COOLER PANEL
	N64Z002A	OFF-GAS REGENERATOR
	N64Z002B	OFF-GAS REGENERATOR
*	N64Z003A	GAS DRYER
*	N64Z003B	GAS DRYER

N71 CIRCULATING WATER SYSTEM

	N71A001A	AMERTAP COLLECTOR TANK – MAIN CONDENSER
	N71A001B	AMERTAP COLLECTOR TANK – MAIN CONDENSER
	N71A002	AMERTAP COLLECTOR TANK – AUXILIARY CONDENSER
	N71A003	CONDENSER WATER WATER BOX DRAIN TANK
*	N71C001A	CIRCULATING WATER PUMP
*	N71C001B	CIRCULATING WATER PUMP
*	N71C001C	CIRCULATING WATER PUMP
	N71C002	AMERTAP RECIRCULATING PUMP – MAIN CONDENSER
	N71C003A	AMERTAP PUMP – RE-INJECTION MAIN CONDENSER
	N71C003B	AMERTAP PUMP – RE-INJECTION MAIN CONDENSER
	N71C004	AMERTAP RECIRCULATION PUMP – AUXILIARY CONDENSER
	N71C005	CONDENSER WATER BOX DRAIN PUMP
	N71D001	AMERTAP SCREEN – MAIN CONDENSER
*	N71D002	AMERTAP SCREEN – AUXILIARY CONDENSER

P11 CONDENSATE TRANSFER AND STORAGE SYSTEM

P11A001	CONDENSATE STORAGE TANK
P11B001	RECIRCULATION HEATER
P11C001A	CONDENSATE TRANSFER PUMP
P11C001B	CONDENSATE TRANSFER PUMP
P11C002	CONDENSATE TRANSFER PUMP

P20 MAKEUP WATER PRETREATMENT

	P20A001A	LIME FEEDER
	P20A001B	LIME FEEDER
	P20A002	SODIUM HYPOCHLORITE TANK
	P20A003A	FERROUS SULFATE FEEDER
	P20A003B	FERROUS SULFATE FEEDER
*	P20A004	POLYELECTROLYTE FEED TANK
	P20A005A	SPARE FEEDER
	P20A005B	SPARE FEEDER
	P20C001A	CLEARWELL PUMP
	P20C001B	CLEARWELL PUMP
	P20C001C	CLEARWELL PUMP
	P20C002A	SODIUM HYPOCHLORITE PUMP
	P20C002B	SODIUM HYPOCHLORITE PUMP
*	P20C003A	POLYELECTROLYTE PUMP
*	P20C003B	POLYELECTROLYTE PUMP
*	P20C005A	LIME FEEDER DUST COLLECTOR
*	P20C005B	LIME FEEDER DUST COLLECTOR
	P20D001A	COAGULATOR
	P20D001B	COAGULATOR
	P20D002A	GRAVITY FILTER
	P20D002B	GRAVITY FILTER
	P20D002C	GRAVITY FILTER
	P20J001	SAMPLE SINK

DEERED SEE NOTE 2

NOTES:

1. FOR NOTES, SEE DWG. E-013-020.
2. THIS EQUIPMENT EXCLUDED FROM DESIGN CONTROL. SEE DEER 06-0003 FOR DETAILS.

(REV. 18 10/13)

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

EQUIPMENT LIST

FIGURE 1.2-1 SHEET 2 OF 3
(DWG. 013-0019-00000)

P21 DEMINERALIZED WATER SYSTEM

- P21A001 TRD BED STORAGE TANK
- P21A002 CATION RESIN REGENERATION TANK
- P21A003 CATION RESIN MAINTENANCE TANK
- P21A004 ANION RESIN MAINTENANCE TANK
- P21A006 HCL/CAUSTIC ACID STORAGE TANK
- P21A007 CAUSTIC SODA STORAGE TANK
- P21A008 HCL/CAUSTIC ACID TANK
- P21B001 RECIRCULATION HEATER
- P21B001A TRANSFER PUMP
- P21B001B TRANSFER PUMP
- P21B001C TRANSFER PUMP
- P21C001A RECYCLE PUMP
- P21C001B RECYCLE PUMP
- P21C001C RECYCLE PUMP
- P21C001D RECYCLE PUMP
- P21C003A SODIUM SULFITE PUMP
- P21C003B SODIUM SULFITE PUMP
- P21C004A SULFURIC ACID PUMP
- P21C004B SULFURIC ACID PUMP (SPARE)
- P21C004C SULFURIC ACID PUMP
- P21C005A CAUSTIC SODA PUMP
- P21C005B CAUSTIC SODA PUMP (SPARE)
- P21C005C CAUSTIC SODA PUMP
- P21C010A WASTE REGENERATION TRANSFER PUMP
- P21C010B WASTE REGENERATION TRANSFER PUMP
- P21D001A CATION EXCHANGER
- P21D002A CATION EXCHANGER
- P21D004A ANION EXCHANGER
- P21D004B ANION EXCHANGER
- P21E001 SAMPLE RACK

DEERED SEE NOTE 3

P22 DEMINERALIZED WATER SYSTEM

- P22A001 MIXED BED STORAGE TANK
- P22B001 RECIRCULATION HEATER
- P22C001A TRANSFER PUMP
- P22C001B TRANSFER PUMP
- P22C001C TRANSFER PUMP
- P22D001 MIXED BED EXCHANGER

DEERED SEE NOTE 3

P33 TURBINE PLANT SAMPLING SYSTEM

- P33A001 SAMPLE RECOVERY TANK
- P33B001 CONSTANT TEMPERATURE WATER CHILLER CONDENSER
- P33C001 SAMPLE EXTRACTION PUMP HP CONDENSER NORTH SIDE AP-1-3
- P33C002 SAMPLE EXTRACTION PUMP HP CONDENSER SOUTH SIDE AP-4-8
- P33C003 SAMPLE EXTRACTION PUMP IP CONDENSER NORTH SIDE AP-7-10
- P33C004 SAMPLE EXTRACTION PUMP IP CONDENSER SOUTH SIDE AP-11-14
- P33C005 SAMPLE EXTRACTION PUMP LP CONDENSER NORTH SIDE AP-15-17
- P33C006 SAMPLE EXTRACTION PUMP LP CONDENSER SOUTH SIDE AP-18-20
- P33C007 SAMPLE EXTRACTION PUMP EAST AUXILIARY CONDENSER AP-21-23
- P33C008 SAMPLE EXTRACTION PUMP WEST AUXILIARY CONDENSER AP-24-26
- P33C009 SAMPLE EXTRACTION PUMP LP HEATER DRAINS AP-27-29
- P33C010A SAMPLE RECOVERY PUMP
- P33C010B SAMPLE RECOVERY PUMP
- P33C011 CHILLED WATER CIRCULATION PUMP
- P33F001A FUME HOOD TURBINE PLANT SAMPLING SYSTEM
- P33F001B FUME HOOD TURBINE PLANT SAMPLING SYSTEM
- P33F002 PRIMARY SAMPLE COOLING RACK

P34 NUCLEAR SAMPLING SYSTEM

P34Z001 NUCLEAR SAMPLE STATION

P40 SERVICE WATER SCREEN WASH SYSTEM

- P40C001A PUMP
- P40C001B PUMP
- P40D001A INTAKE SCREEN
- P40D001B INTAKE SCREEN

P41 SERVICE WATER SYSTEM

- P41C001A PUMP
- P41C001B PUMP
- P41C001C PUMP
- P41C001D PUMP
- P41D001A PUMP STRAINER
- P41D001B PUMP STRAINER
- P41D001C PUMP STRAINER
- P41D001D PUMP STRAINER
- P41D0004 ADHR HEAT EXCHANGER FILTER

P42 EMERGENCY CLOSED COOLING SYSTEM

- P42A001A SURGE TANK
- P42A001B SURGE TANK
- P42A002 CHEMICAL ADDITION TANK
- P42B001A HEAT EXCHANGER
- P42B001B HEAT EXCHANGER
- P42C001A PUMP
- P42C001B PUMP

P43 NUCLEAR CLOSED COOLING SYSTEM

- P43A001 SURGE TANK
- P43A002 CHEMICAL TANK
- P43B001A HEAT EXCHANGER
- P43B001B HEAT EXCHANGER
- P43B001C HEAT EXCHANGER
- P43C001A PUMP
- P43C001B PUMP
- P43C001C PUMP

P44 TURBINE BUILDING CLOSED COOLING SYSTEM

- P44A001 SURGE TANK
- P44A002 CHEMICAL ADDITION TANK
- P44B001A HEAT EXCHANGER
- P44B001B HEAT EXCHANGER
- P44C001A PUMP
- P44C001B PUMP
- P44C001C PUMP

P45 EMERGENCY SERVICE WATER SYSTEM

- P45C001A PUMP
- P45C001B PUMP
- P45C002 PUMP
- P45D002A RHR TUBE BUNDLE DRAIN PUMP
- P45D002B RHR TUBE BUNDLE DRAIN PUMP
- P45D0004 PUMP DISCHARGE STRAINER
- P45D0005 PUMP DISCHARGE STRAINER
- P45D003 PUMP DISCHARGE STRAINER

P46 TURBINE BUILDING CHILLED WATER SYSTEM

- P46A001 CHEMICAL FEED TANK
- P46A002 EXPANSION TANK
- P46B001A TURBINE BUILDING WATER CHILLER
- P46B001B TURBINE BUILDING WATER CHILLER
- P46B001A TURBINE BUILDING CHILLED WATER PUMP
- P46C001B TURBINE BUILDING CHILLED WATER PUMP

P47 CONTROL COMPLEX CHILLED WATER SYSTEM

- P47A001 CHEMICAL FEED TANK
- P47A002A EXPANSION TANK
- P47A002B EXPANSION TANK
- P47B001A CONTROL COMPLEX WATER CHILLER
- P47B001B CONTROL COMPLEX WATER CHILLER
- P47B001C CONTROL COMPLEX WATER CHILLER
- P47C001A CONTROL COMPLEX CHILLED WATER PUMP
- P47C001B CONTROL COMPLEX CHILLED WATER PUMP
- P47C001C CONTROL COMPLEX CHILLED WATER PUMP

P48 SERVICE WATER CHLORINATION SYSTEM

- P48A001 SODIUM HYPOCHLORITE TANK

P49 EMERGENCY SERVICE WATER SCREEN WASH SYSTEM

- P49C002A SCREEN WASH PUMP
- P49C002B SCREEN WASH PUMP
- P49D001A PUMP HOUSE INTAKE SCREEN
- P49D001B PUMP HOUSE INTAKE SCREEN
- P49D002A PUMP DISCHARGE AUTO STRAINER
- P49D002B PUMP DISCHARGE AUTO STRAINER

P50 CONTAINMENT VESSEL CHILLED WATER SYSTEM

- P50A001A EXPANSION TANK
- P50A001B EXPANSION TANK
- P50A002 CHEMICAL FEED TANK
- P50B001A CONTAINMENT CHILLER A
- P50B001B CONTAINMENT CHILLER B
- P50B001C CONTAINMENT CHILLER C
- P50C001A PUMP
- P50C001B PUMP
- P50C001C PUMP

P51 SERVICE AIR SYSTEM

- P51A001 SERVICE AIR COMPRESSOR RECEIVER TANK
- P51C001 SERVICE AIR COMPRESSOR

P52 INSTRUMENT AIR SYSTEM

- P52A001 INSTRUMENT AIR COMPRESSOR RECEIVER TANK
- P52C001 INSTRUMENT AIR COMPRESSOR
- P52D002A INSTRUMENT AIR DRYER PREFILTER
- P52D002B INSTRUMENT AIR DRYER PREFILTER
- P52D003A INSTRUMENT AIR DRYER
- P52D003B INSTRUMENT AIR DRYER
- P52D004A AFTER-FILTER
- P52D004B AFTER-FILTER

P54 FIRE PROTECTION SYSTEM

- P54A001 FIRE SERVICE PRESSURE MAINTENANCE TANK
- P54A002 DIESEL TANK
- P54A003 FOAM LIQUID STORAGE TANK
- P54A004 CANDOX UNIT (SERVICE BUILDING)
- P54A007 CANDOX UNIT (TURBINE BUILDING)
- P54A008 CANDOX UNIT (FUEL HANDLING BUILDING)
- P54B001 DIESEL DRIVEN FIRE SERVICE PUMP
- P54C002 ELECTRIC FIRE SERVICE PUMP
- P54D002 FIRE SERVICE JOCKEY PUMP
- P54E004 FOAM LIQUID PUMP
- P54A008 CANDOX UNIT (CONTROL ROOM)

P55 BUILDING HEATING SYSTEM

- P55A001 CHEMICAL MIXING TANK
- P55A002 EXPANSION TANK
- P55B001A HEAT EXCHANGER
- P55B001B HEAT EXCHANGER
- P55C001A HOT WATER PUMP
- P55C001B HOT WATER PUMP

P57 SAFETY RELATED INSTRUMENT AIR SYSTEM

- P57A001A AIR RECEIVER TANK
- P57A001B AIR RECEIVER TANK
- P57C001 COMPRESSOR
- P57D001 AIR PREFILTER
- P57D002 AIR DRYER

P61 AUXILIARY STEAM AND DRAINS SYSTEM

- P61A002 AUXILIARY BOILER BLOWDOWN TANK
- P61A003A CONDENSATE RETURN TANK
- P61A003B CONDENSATE RETURN TANK
- P61B001A AUXILIARY BOILER
- P61B001B AUXILIARY BOILER
- P61B002 AUXILIARY BOILER DEAERATOR AND STORAGE TANK
- P61C002A AUXILIARY BOILER FEEDWATER PUMP
- P61C002B AUXILIARY BOILER FEEDWATER PUMP
- P61C002C AUXILIARY BOILER FEEDWATER PUMP
- P61C003A AUXILIARY BOILER FORCED DRAFT FAN
- P61C003B AUXILIARY BOILER FORCED DRAFT FAN
- P61C004A CONDENSATE RETURN PUMP
- P61C004B CONDENSATE RETURN PUMP
- P61C004C CONDENSATE RETURN PUMP
- P61C004D CONDENSATE RETURN PUMP
- P61C005A HOT WATER HEAT EXCHANGER DRAIN PUMP
- P61C005B HOT WATER HEAT EXCHANGER DRAIN PUMP
- P61D003 CONDENSATE RETURN COOLER

P62 AUXILIARY BOILER FUEL OIL SYSTEM

- P62A001 FUEL OIL STORAGE TANK
- P62C001A AUXILIARY BOILER FUEL OIL PUMP
- P62C001B AUXILIARY BOILER FUEL OIL PUMP
- P62C002A FUEL OIL UNLOADING PUMP
- P62C002B FUEL OIL UNLOADING PUMP
- P62D001A FUEL OIL STRAINER
- P62D001B FUEL OIL STRAINER

P64 PLANT INDUSTRIAL WASTE SYSTEM

- P64C001A SLUDGE HOLDING SUMP PUMP
- P64C001B SLUDGE HOLDING SUMP PUMP

P80 AUXILIARY BOILER CHEMICAL TREATMENT SYSTEM

- P80A001 AMMONIA SOLUTION MIX TANK
- P80A002 HYDRAZINE SOLUTION MIX TANK
- P80B001A AMMONIA AUTO STROKE CONTROL FEED PUMP
- P80B001B AMMONIA-HYDRAZINE MANUAL FEED PUMP
- P80C002 HYDRAZINE MANUAL STROKE CONTROL FEED PUMP
- P80D001A AMMONIA PUMP DISCHARGE OIL TRAP
- P80D001B AMMONIA-HYDRAZINE PUMP DISCHARGE OIL TRAP
- P80D002 HYDRAZINE PUMP DISCHARGE OIL TRAP

P89 COOLING TOWER ACID ADDITION SYSTEM

- P89A001 SULFURIC ACID STORAGE TANK
- P89C001 SULFURIC ACID FEED PUMP
- P89C002 SULFURIC ACID FEED PUMP (SPARE)

P84 HYPOCHLORITE GENERATION, COOLING TOWER FEED, AND PLANT DISCHARGE DECHLORINATION SYSTEM

- P84A001 SODIUM HYPOCHLORITE STORAGE TANK
- P84A002A SALT STORAGE AND DISSOLVER TANK
- P84A002B SALT STORAGE AND DISSOLVER TANK
- P84A003 BRINE STORAGE HEAD TANK
- P84A004A PLANT DISCHARGE SODIUM SULFITE MIX TANK
- P84A004B EMERGENCY SERVICE SODIUM SULFITE MIX TANK
- P84C002A HYPOCHLORITE TRANSFER PUMP
- P84C002B HYPOCHLORITE TRANSFER PUMP
- P84C005 SODIUM HYPOCHLORITE FEED PUMP
- P84C005A SODIUM HYPOCHLORITE TRANSFER PUMP TO SERVICE WATER HYPOCHLORITE STORAGE TANK
- P84C005B SODIUM HYPOCHLORITE TRANSFER PUMP TO CYCLE MAKEUP PRETREATMENT HYPOCHLORITE STORAGE TANK
- P84C007A SAMPLE EXTRACTION PUMP
- P84C007B SAMPLE EXTRACTION PUMP
- P84C008 PLANT DISCHARGE SODIUM SULFITE FEED PUMP
- P84C008B EMERGENCY SERVICE SODIUM SULFITE FEED PUMP

P88 NITROGEN SUPPLY SYSTEM

- P88A001 NITROGEN STORAGE CYLINDER

P87 POST ACCIDENT SAMPLING SYSTEM

- P87C001 POST ACCIDENT SAMPLING SYSTEM PUMP
- P87C002 POST ACCIDENT SAMPLING SYSTEM PUMP
- P87F001 CHEMICAL ANALYSIS PANEL
- P87F002 CONTROL MONITOR AND CHEMICAL ANALYSIS PANEL
- P87F005 GRAB SAMPLE PANEL

R11 STATION TRANSFORMERS

- R11S005 18.0/4.16 KV EES INTERBUS TRANSFORMER A
- R11S004 18.0/4.16 KV BOP INTERBUS TRANSFORMER B
- R11S005 18.0/4.16 KV BOP INTERBUS TRANSFORMER C

R13 ISOLATED PHASE BUS

- R13S001 ISOLATED PHASE BUS DUCT COOLING UNIT
- R13S003 ISOLATED PHASE BUS DUCT PT COMPARTMENT
- R13F003 HYDROGEN DETECTION CABINET

R14 120V AC VITAL SYSTEM

- R14S004 BOP STATIC INVERTER
- R14S007 VITAL DISTRIBUTION TRANSFORMER 480/120V FB-1-R
- R14S008 STATIC TRANSFER SWITCH
- R14S012 ATWS UNINTERRUPTIBLE POWER SUPPLY
- R14S013 ATWS UNINTERRUPTIBLE POWER SUPPLY
- R14S014 120V AC ATWS DIVISION 1 DISTRIBUTION PANEL
- R14S015 120V AC ATWS DIVISION 2 DISTRIBUTION PANEL

R22 METAL CLAD SWITCHGEAR (15 KV AND 6 KV)

- R22S001 13.8 KV BOP BUS L-10
- R22S002 13.8 KV BOP BUS L-11
- R22S003 13.8 KV BOP BUS L-12
- R22S004 4.16 KV BOP BUS M-11
- R22S005 4.16 KV BOP BUS M-12
- R22S006 4.16 KV ESF DIVISION 2 BUS EM-12 (AND BUS EM-12)
- R22S007 4.16 KV ESF DIVISION 1 BUS EM-11 (AND BUS EM-11)
- R22S008 4.16 KV ESF DIVISION 3 BUS EM-13
- R22S010 REACTOR RECIRCULATION PUMP BREAKER 2A
- R22S011 REACTOR RECIRCULATION PUMP BREAKER 2B

R23 LOAD CENTERS - 480V

- R23S001 BOP 480V LOAD CENTER F-1-A
- R23S002 BOP 480V LOAD CENTER F-1-B
- R23S003 BOP 480V LOAD CENTER F-1-C
- R23S004 BOP 480V LOAD CENTER F-1-D
- R23S005 BOP 480V LOAD CENTER F-1-E
- R23S006 BOP 480V LOAD CENTER F-1-F
- R23S007 BOP 480V LOAD CENTER F-1-G
- R23S008 ESF DIVISION 1 480V LOAD CENTER EF-1-A
- R23S010 ESF DIVISION 1 480V LOAD CENTER EF-1-B
- R23S011 ESF DIVISION 2 480V LOAD CENTER EF-1-C
- R23S012 ESF DIVISION 2 480V LOAD CENTER EF-1-D
- R23S013 BOP 480V LOAD CENTER XF-1-A
- R23S014 BOP 480V LOAD CENTER F-2-J
- R23S015 4.16/0.48KV HPCS TRANSFORMER ENFIE (DIVISION 3)
- R23S016 BOP 480V LOAD CENTER F-1-K

R24 MOTOR CONTROL CENTERS

- R24S001 MCC-F1M05
- R24S002 MCC-F1A09
- R24S003 MCC-F1A07
- R24S004 MCC-F1B06
- R24S005 MCC-F1B07
- R24S006 MCC-F1C06
- R24S007 MCC-F1C07
- R24S008 MCC-F1D06
- R24S009 MCC-F1D08
- R24S010 MCC-F1E06
- R24S011 MCC-F1E08
- R24S012 MCC-F1E12
- R24S013 MCC-F1F04
- R24S014 MCC-F1F05
- R24S015 MCC-F2B04
- R24S016 MCC-F1J04
- R24S017 MCC-F1F13
- R24S018 MCC-HP1A07
- R24S019 MCC-HP1A08
- R24S020 MCC-EF1A-G
- R24S021 MCC-EF1B-A
- R24S022 MCC-EF1B-E
- R24S023 MCC-EF1C-A
- R24S024 MCC-EF1C-E
- R24S025 MCC-EF1C-C
- R24S026 MCC-EF1D-A
- R24S027 MCC-F1D08
- R24S028 MCC-EF1D-E
- R24S029 MCC-EF1E1
- R24S030 MCC-EF1E2
- R24S031 MCC-EF1A-D
- R24S032 MCC-EF1C-D
- R24S033 MCC-F2H1
- R24S034 MCC-F1C08
- R24S035 MCC-EF1B-C
- R24S039 MCC-EF1C-C
- R24S037 MCC-EF2A-D
- R24S038 MCC-SYSTEM P20
- R24S039 MCC-SYSTEMS P21 & P22
- R24S040 MCC-SYSTEM P64
- R24S041 MCC-SYSTEM H23
- R24S042 MCC-P16DB AUXILIARY BOILER SYSTEM

R28 DISTRIBUTION PANELS

- R28S001 F1A12
- R28S002 F1B12
- R28S003 F1C12
- R28S004 F1D12
- R28S005 F1E08
- R28S006 F1E08
- R28S007 F1E14
- R28S008 F1F14
- R28S009 480V DISTRIBUTION PANEL F1C05
- R28S010 F1D07
- R28S095 DISTRIBUTION PANEL XFNR 480V/120V REG EPB-1-A1
- R28S027 DISTRIBUTION PANEL XFNR 480V/120V REG EPB-1-B1
- R28S113 480V DISTRIBUTION PANEL F1F15
- R28S076 480 VAC DISTRIBUTION PANEL F1D09
- R28S071 120 VAC DISTRIBUTION PANEL K-1-Y
- R28S074 ADHR 480 VAC XFR PANEL

R35 HEAT TRACING AND ANTIFREEZE PROTECTION

- R35P001 CENTRALIZED HEAT TRACE PANEL CCP1
- R35P003 CENTRALIZED HEAT TRACE PANEL CCP3
- R35P005 CENTRALIZED HEAT TRACE PANEL CCP5
- R35P007 CENTRALIZED HEAT TRACE PANEL CCP7
- R35P010 CENTRALIZED HEAT TRACE PANEL CCP10

R42 DC SYSTEM - BATTERIES, CHARGERS AND SWITCHBOARDS

- R42S001 125V BOP BATTERY 1A
- R42S002 125V DIVISION 1 BATTERY
- R42S003 125V DIVISION 2 BATTERY
- R42S005 125V BOP BATTERY CHARGER FC-1-A
- R42S006 125V DIVISION 1 BATTERY CHARGER
- R42S007 125V DIVISION 1 RESERVE BATTERY CHARGER
- R42S008 125V DIVISION 2 BATTERY CHARGER
- R42S009 125V DIVISION 2 RESERVE BATTERY CHARGER
- R42S011 125V DIVISION 3 RESERVE BATTERY CHARGER
- R42S012 DC DISTRIBUTION PANEL
- R42S013 DC DISTRIBUTION PANEL
- R42S014 DC DISTRIBUTION PANEL
- R42S015 MOTOR CONTROL CENTER MCC-EC1A08
- R42S016 DC DISTRIBUTION PANEL
- R42S017 DC DISTRIBUTION PANEL
- R42S018 DC DISTRIBUTION PANEL
- R42S019 125V BOP BATTERY CHARGER FC-1-B
- R42S020 STATIC TRANSFER SYSTEM
- R42S021 125V DC BOP BUS D-1-A
- R42S022 125V DC BOP BUS D-1-B
- R42S023 125V BOP BATTERY 1B
- R42S024 DC SWITCHGEAR BUS D12A
- R42S025 DC SWITCHGEAR BUS D12B
- R42S026 BATTERY 1B TEST DISCONNECT SWITCH

R43 STANDBY DIESEL GENERATOR

- R43A001A EMERGENCY DIESEL DRIVEN GENERATOR DIVISION 1
- R43B001B EMERGENCY DIESEL DRIVEN GENERATOR DIVISION 2

R44 STANDBY DIESEL GENERATOR STARTING AIR SYSTEM

- R44A001A AIR RECEIVER TANK
- R44A001B AIR RECEIVER TANK
- R44A002A AIR RECEIVER TANK
- R44A002B AIR RECEIVER TANK
- *R44B001A AFTER COOLER
- *R44B001B AFTER COOLER
- *R44B002A AFTER COOLER
- *R44B002B AFTER COOLER
- R44C001A STARTING AIR COMPRESSOR AC DIVISION 1
- R44C001B STARTING AIR COMPRESSOR AC DIVISION 2
- R44C002A EMERGENCY DIESEL GENERATOR STARTING AIR COMPRESSOR DC DIVISION 1
- R44C002B EMERGENCY DIESEL GENERATOR STARTING AIR COMPRESSOR DC DIVISION 2
- R44D001A AIR DRYER
- R44D001B AIR DRYER
- R44D002A AIR DRYER
- R44D002B AIR DRYER

R46 STANDBY DIESEL GENERATOR FUEL OIL SYSTEM

- R46A002A FUEL OIL STORAGE TANK DIVISION 1
- R46A002B FUEL OIL STORAGE TANK DIVISION 2
- *R46A003A FUEL OIL DAY TANK DIVISION 1
- *R46A003B FUEL OIL DAY TANK DIVISION 2
- R46A004 HPCS FUEL OIL STORAGE TANK DIVISION 3
- R46A005 HPCS FUEL OIL DAY TANK DIVISION 3
- R46C001A FUEL OIL TRANSFER PUMP
- R46C001B FUEL OIL TRANSFER PUMP
- R46C001C HPCS FUEL OIL TRANSFER PUMP
- R46C002A FUEL OIL TRANSFER PUMP
- R46C002B FUEL OIL TRANSFER PUMP
- R46C002C HPCS FUEL OIL TRANSFER PUMP

R48 STANDBY DIESEL GENERATOR EXHAUST, INTAKE AND CRANKCASE SYSTEM

- R48D001A EXHAUST SILENCER
- R48D001B EXHAUST SILENCER
- R48D002A AIR INTAKE FILTER
- R48D002B AIR INTAKE FILTER
- R48D002A AIR INTAKE FILTER
- R48D002B AIR INTAKE FILTER

R68 OUTSIDE RADIO COMMUNICATIONS SYSTEM

- *R68B001 LOCAL LAW ENFORCEMENT TRANSMITTER AND RECEIVER
- R74S0970 ADHR STARTER 1548C2885G
- R74S0971 ADHR STARTER 1548F0830

T11 POWER TRANSFORMERS

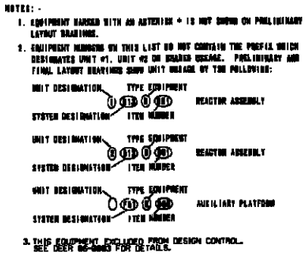
- T11S001A 345/22.0KV MAIN GENERATOR TRANSFORMER PHASE A
- T11S001B 345/22.0KV MAIN GENERATOR TRANSFORMER PHASE B
- T11S001C 345/22.0KV MAIN GENERATOR TRANSFORMER PHASE C
- T11S002 345/13.8KV UNIT START-UP TRANSFORMER
- T11S003 22.0/13.8/13.8KV UNIT AUXILIARY TRANSFORMER

T23 CONTAINMENT SYSTEM

- T23V001 DRYWELL HEAD

NOTES: -

1. EQUIPMENT MARKED WITH AN ASTERISK * IS NOT SHOWN ON PRELIMINARY LAYOUT DRAWINGS.
2. EQUIPMENT NUMBERS ON THIS LIST DO NOT CONTAIN THE PREFIX WHICH DESIGNATES UNIT #1. UNIT #2 OR SHARED USAGE. PRELIMINARY AND FINAL LAYOUT DRAWINGS SHOW UNIT USAGE OF THE FOLLOWING:



3. THIS EQUIPMENT EXCLUDED FROM DESIGN CONTROL. SEE DEER 88-0065 FOR DETAILS.

(REV. 18 10/13)

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

EQUIPMENT LIST

FIGURE 1.2-1 SHEET 3 OF 3
(DWG. 013-0020-00000)

Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT,
PLOT PLAN, PLANT AREA
FIGURE 1.2-2
(DWG. E-036-0022-00000)

Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT, PLAN A ABOVE
ELEVS. 568'-6", 574'-10", 577'-6"
AND 580'-6", PLANT COMPLEX
FIGURE 1.2-3
(DWG. E-013-0003-00000)

Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT, PLAN B ABOVE ELEVS. 593'-6", 599'-Ø", 6ØØ'-6", 6Ø2'-6", AND 6Ø5'-6", PLANT COMPLEX
FIGURE 1.2-4
(DWG. E-Ø13-ØØØ4-ØØØØØ)

Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT, PLAN C ABOVE
ELEVS. 620'-6", 623'-6" AND
624'-6", PLANT COMPLEX
FIGURE 1.2-5
(DWG. E-013-0005-00000)

FIGURE REDACTED PER RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT, PLAN D
ABOVE ELEVS. 638'-6", 642'-0"
AND 647'-6", PLANT COMPLEX
FIGURE 1.2-6
(DWG. E-013-0006-00000)

Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

PLANT LAYOUT PLAN E ABOVE
ELEVS. 652'-Ø" AND EL. 654'-6",
PLANT COMPLEX
FIGURE 1.2-7
(DWG. E-013-0007-00000)

Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT, PLAN F ABOVE
ELEVS. 664'-7", 665'-0", AND
670'-6", PLANT COMPLEX
FIGURE 1.2-8
(DWG. E-013-0008-00000)

Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT, PLAN G ABOVE
ELEVS. 689'-6", PLANT COMPLEX
FIGURE 1.2-9
(DWG. E-013-0009-00000)

Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT,
PLAN H ROOF PLAN
FIGURE 1.2-10
(DWG. E-013-0010-00000)

Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT,
SECTION A-A
FIGURE 1.2-11
(DWG. E-013-0011-00000)

Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT,
SECTION B-B
FIGURE 1.2-12
(DWG. E-013-0012-00000)

Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT,
SECTION C-C
FIGURE 1.2-13
(DWG. E-013-0013-00000)

Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT, CIRCULATING
WATER PUMPHOUSE, PLANS AND ELEVATIONS
FIGURE 1.2-14 (SHEET 1 OF 2)
(DWG. E-015-0016-00000)

Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT, CIRCULATING
WATER PUMPHOUSE, PLANS AND ELEVATIONS
FIGURE 1.2-14 (SHEET 2 OF 2)
(DWG. E-015-0017-00000)

Removed in Accordance with RIS 2015–17

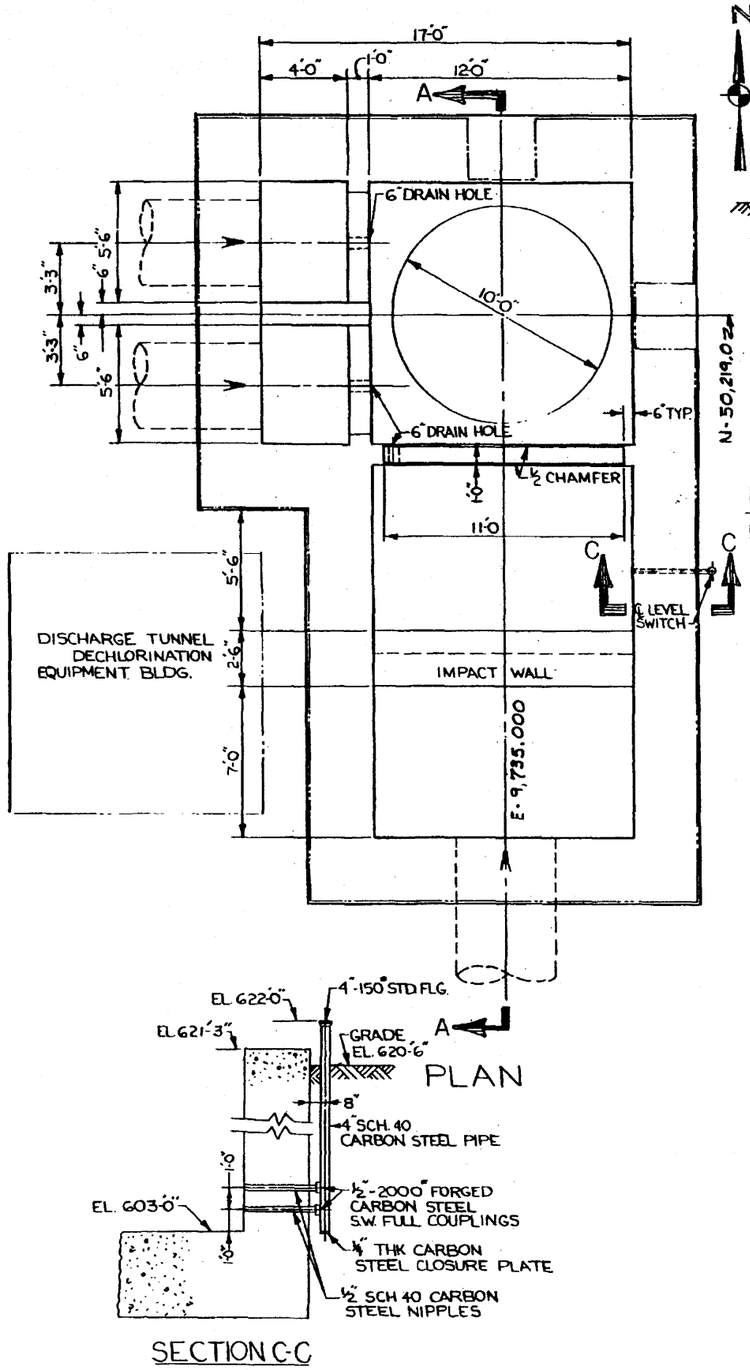
PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT,
SERVICE WATER PUMPHOUSE
FIGURE 1.2-15
(DWG. E-015-0015-00000)

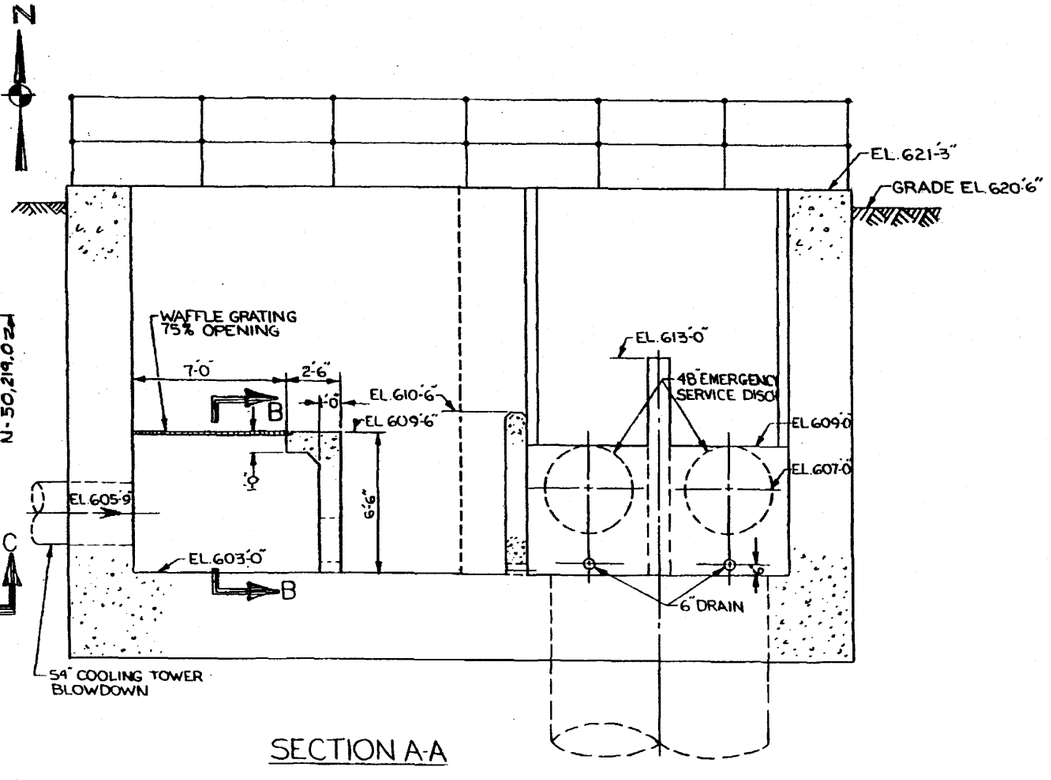
Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

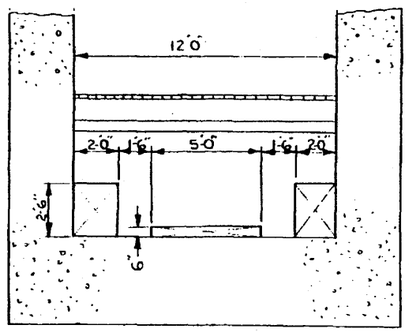
FINAL PLANT LAYOUT,
EMERGENCY SERVICE WATER
PUMPHOUSE PLANS AND ELEVATIONS
FIGURE 1.2-16
(DWG. E-015-0002-00000)



SECTION C-C



SECTION A-A

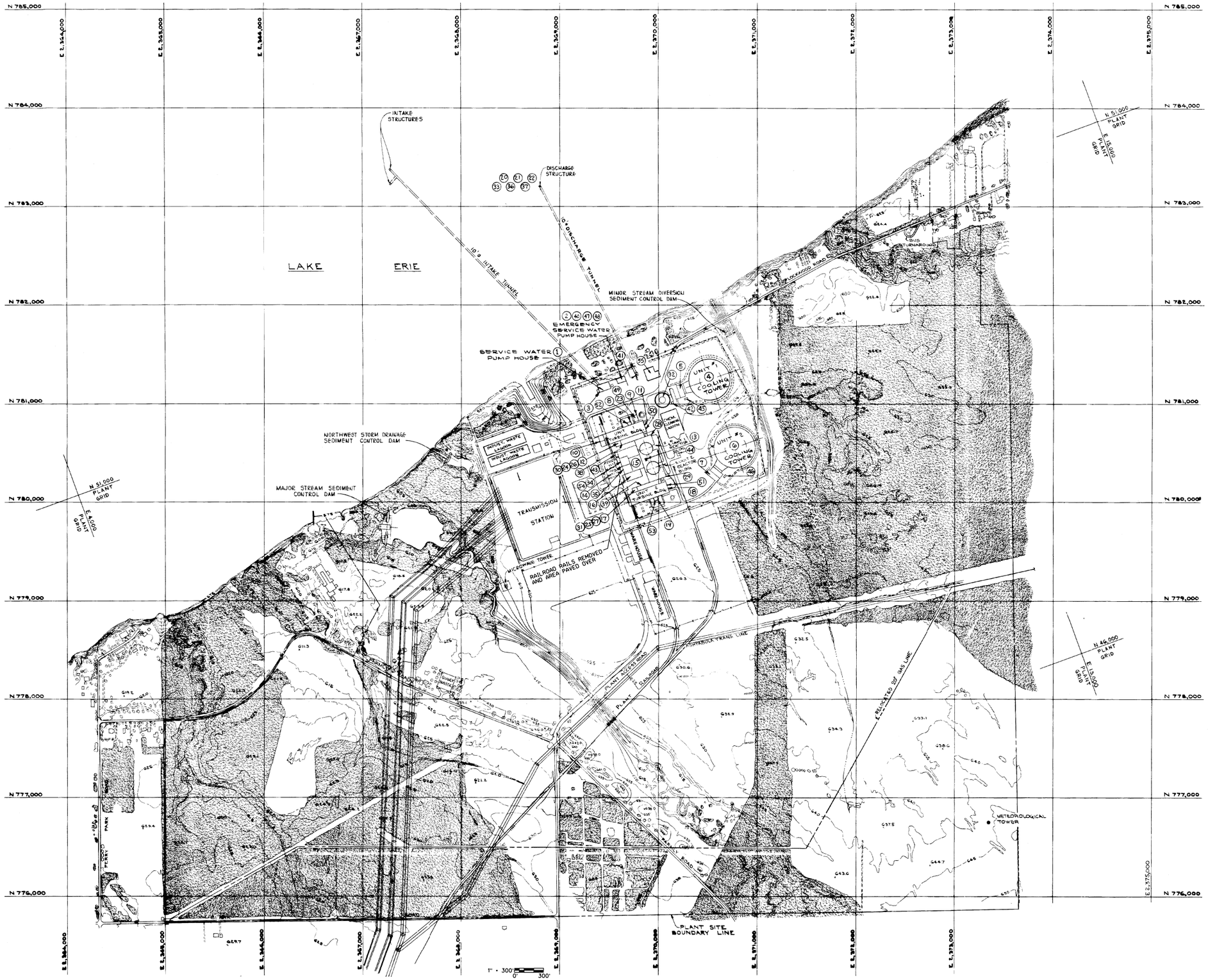


(Rev. 12 1/03)

PERRY NUCLEAR POWER PLANT

Final Plant Layout,
Discharge Tunnel Entrance
Structures

Figure 1.2-17
(Dwg. B-015-003)



LEGEND

ITEM NO.	DESCRIPTION	RELEASE ELEVATION
1.	CONSTRUCTION SANITARY SEWAGE EFFLUENT	576'-0"
2.	EMERGENCY SERVICE WATER PUMP HOUSE VENT. EXHAUST	638'-5"
3.	SERVICE WATER PUMP HOUSE VENT. EXHAUST	626'-0"
4.	COOLING TOWER AIR OUTLET – UNIT 1	1138'-0"
5.	CIRCULATING WATER PUMP HOUSE VENT. EXHAUST – UNIT 1	686'-0"
6.	COOLING TOWER AIR OUTLET – UNIT 2	1138'-0"
7.	CIRCULATING WATER PUMP HOUSE VENT. EXHAUST – UNIT 2	686'-0"
8.	TURBINE BUILDING AND HEATER BAY EXHAUST – UNIT 1	722'-0"
9.	AUXILIARY BOILER BUILDING VENT. EXHAUST	847'-6"
10.	WATER TREATMENT BUILDING VENT. EXHAUST	843'-3"& 886'-3"
11.	LUBE OIL STORAGE AREA VENT. EXHAUST – UNIT 1	836'-3"
12.	OFF-GAS AND TURBINE BUILDINGS VENT EXHAUST – UNIT 1	723'-0"
13.	PLANT VENT. – UNIT 1 AND UNIT 2	753'-0"
14.	DIESEL GENERATORS BUILDING VENT. EXHAUST	839'-11"
15.	CONTROL COMPLEX VENT. EXHAUST	687'-4"
16.	SERVICE BUILDING VENT. EXHAUST	671'-5"
17.	OFF-GAS AND TURBINE BUILDINGS VENT.EXHAUST – UNIT 2	723'-0"
18.	LUBE OIL STORAGE AREA VENT. EXHAUST – UNIT 2	836'-3"
19.	TURBINE BUILDING AND HEATER BAY EXHAUST – UNIT 2	722'-8"
20.	COOLING TOWER BLOWDOWN	564'-4"
21.	SERVICE WATER DISCHARGE	564'-4"
22.	EMERGENCY SERVICE WATER DISCHARGE	564'-4"
23.	AUXILIARY BOILER FLUE GAS VENT. EXHAUST (2)	721'-8"
24.	START-UP CONDENSER EVACUATION EXHAUST – UNIT 1	723'-8"
25.	START-UP CONDENSER EVACUATION EXHAUST – UNIT 2	723'-0"
26.	OFF-GAS RELEASE – UNIT 1	723'-0"
27.	OFF-GAS RELEASE – UNIT 2	723'-0"
28.	EMERGENCY SERVICE WATER OVERFLOW – UNIT 1	823'-8"
29.	EMERGENCY SERVICE WATER OVERFLOW – UNIT 2	823'-8"
30.	STEAM PACKING EXHAUST DISCHARGE – UNIT 1	723'-8"
31.	STEAM PACKING EXHAUST DISCHARGE – UNIT 2	723'-8"
32.	FUEL OIL STORAGE TANK VENT	880'-8"
33.	LIQUID RADWASTE DISCHARGE	564'-4"
34.	EMERGENCY DIESEL GENERATOR FUEL OIL TANK VENTS (12)	858'-8" & 843'-8"
35.	EMERGENCY DIESEL GENERATORS COMBUSTION EXHAUST GASES (8)	857'-8"
36.	CHEMICAL CLEANING TREATED WASTE	564'-4"
37.	SANITARY SEWAGE EFFLUENT	564'-4"
38.	TURBINE POWER COMPLEX BATTERY ROOM EXHAUST – UNIT 1	857'-8"
39.	TURBINE POWER COMPLEX BATTERY ROOM EXHAUST – UNIT 2	857'-8"
40.	DIESEL DRIVEN FIRE PUMP AREA EXHAUST	820'-8"
41.	DISCHARGE TUNNEL DECHLORINATION EQUIPMENT BUILDING EXHAUST	834'-2"
42.	FUEL OIL PUMP HOUSE VENT. EXHAUST	837'-8"
43.	RADWASTE BUILDING CEMENT STORAGE AREA VENT. EXHAUST	856'-8"
44.	HYPOCHLORITE GENERATION BUILDING AREA VENT. EXHAUST	834'-2"
45.	COOLING TOWER ACID ADDITION STORAGE BUILDING VENT. EXHAUST – UNIT 1	838'-8"
46.	COOLING TOWER ACID ADDITION STORAGE BUILDING VENT. EXHAUST – UNIT 2	838'-8"
47.	DIESEL DRIVEN FIRE PUMP ENGINE EXHAUST	828'-8"
48.	DIESEL DRIVEN FIRE PUMP FUEL OIL TANK VENT	835'-8"
49.	AUXILIARY BOILER SAFETY VALVE ESCAPES, AUXILIARY BOILER DEAERATING HEATER ESCAPE AND VENT AND AUXILIARY BOILER BLOWDOWN TANK VENT	855'-8"
50.	MAIN TURBINE LUBE OIL RESERVOIR VENT – UNIT 1	718'-8"
51.	MAIN TURBINE LUBE OIL RESERVOIR VENT – UNIT 2	718'-8"
52.	MAIN FEEDWATER PUMP TURBINE OIL RESERVOIR VENT – UNIT 1 (2)	883'-11"
53.	MAIN FEEDWATER PUMP TURBINE OIL RESERVOIR VENT – UNIT 2 (2)	883'-11"
54.	EMERGENCY DIESEL GENERATOR LUBE OIL SUMP AND CRANKCASE VENTS(8)	850'-6"
55.	LOW LEVEL RADWASTE STORAGE AND PROCESSING FACILITY VENT EXHAUST.	658'-0"

NOTES:
1. COORDINATES SHOWN ON THIS DRAWING ARE BASED ON THE OHIO STATE COORDINATE SYSTEM.
2. REACTOR COORDINATES:

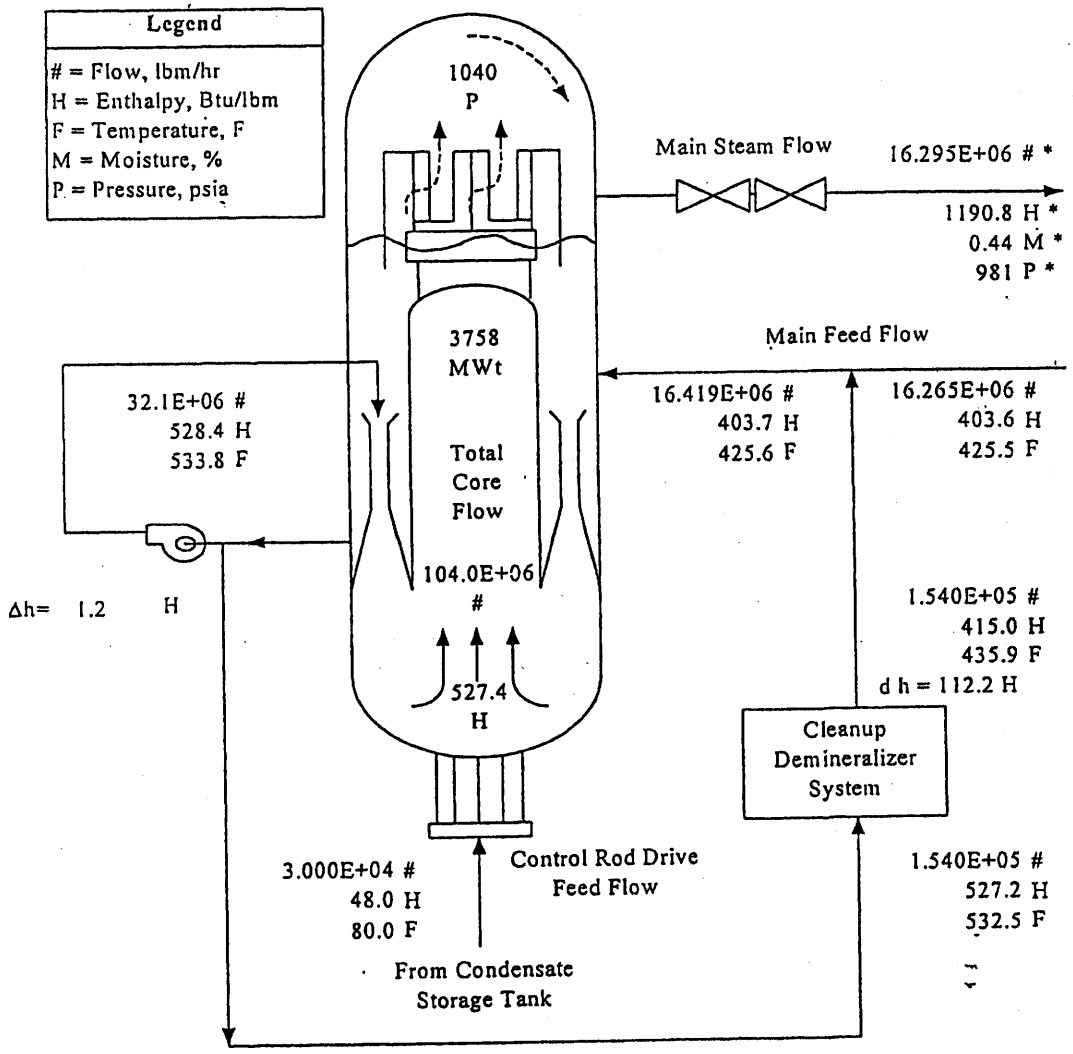
	OHIO GRID	PLANT GRID
UNIT 1	N780,545 E2,369,875	N49,486 E9,570
UNIT 2	N780,346.725 E2,369,947.186	N49,255 E9,570

3. ALL BACKGROUND CONTOURS SUPPLIED BY AERIAL SURVEYS, INC.

(REV. 21 10/2019)

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT,
PLOT PLAN RELEASE POINT DESIGNATION
FIGURE 1.2-18
(DWG. D-036-0011-00000)



* Conditions at upstream side of TSV

Core Thermal Power	3758.0
Pump Heating	10.7
Cleanup Losses	-5.1
Other System Losses	-1.1
Turbine Cycle Use	3762.5 MWt

(Rev. 12 1/03)

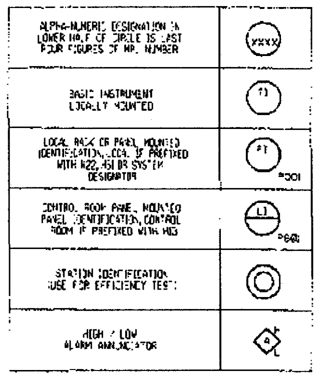
PERRY NUCLEAR POWER PLANT

Heat Balance at Rated Power

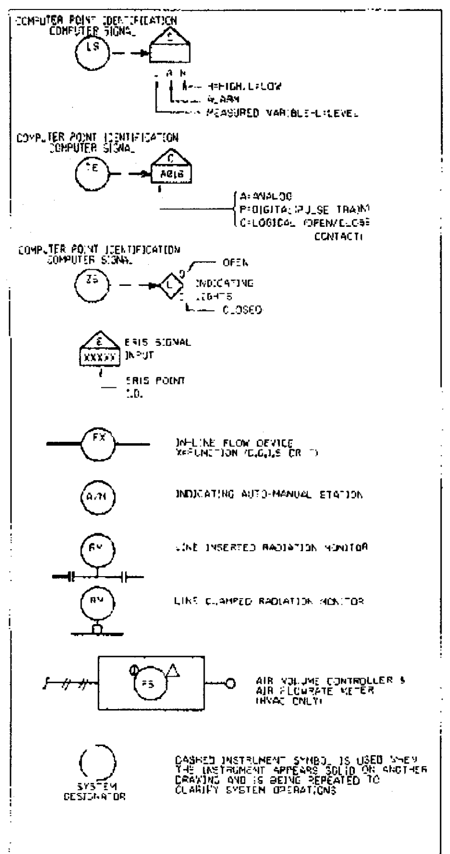
Figure 1.2-19

GILBERT SYMBOLOGY

INSTRUMENTATION



ALARM CRT IDENTIFICATION



INSTRUMENT IDENTIFICATION LETTERS

MEASURED VARIABLE 1ST LETTER	INSTRUMENT FUNCTION 2ND LETTER
A ANALYSIS	B BISTABLE
D DENSITY	C CONTROLLER
F FLOW	E ELEMENT
H HAND	G OBSERVATION GLASS
K TIME	I INDICATOR
L LEVEL	N MONITOR
M MOISTURE, HUMIDITY	P TEST POINT(OPERATING)
N NEUTRON FLUX	Q POWER SUPPLY
P PRESSURE, VACUUM	R RECORDER
R RADIATION	S SWITCH
S SPEED	T TRANSMITTER
T TEMPERATURE	V CONTROL VALVE
U MULTIVARIBLE	X TEST POINT(EFFICIENCY)
V VIBRATION OR SEISMIC	Y SIGNAL MODIFIER
W WEIGHT	
X SMOKE	
Z POSITION	

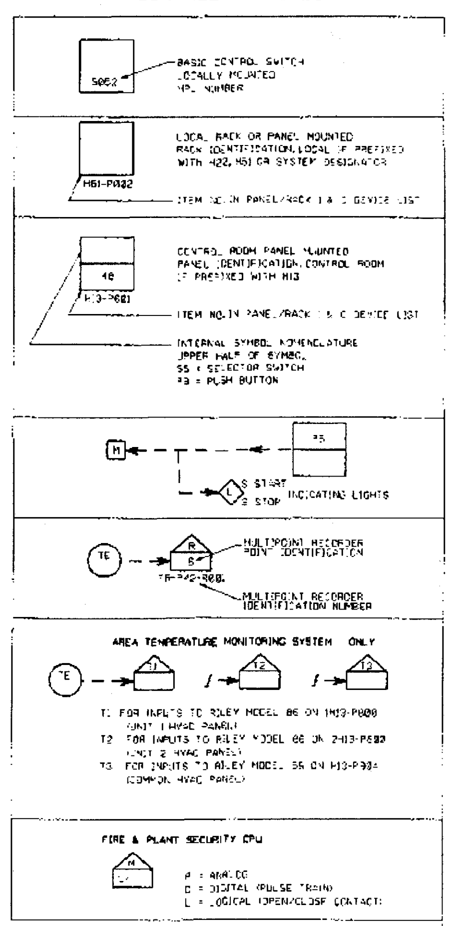
FUNCTION DESIGNATORS

E/P	ELECTRO-PNEUMATIC CONVERTER
R/I	RESISTANCE-TO-CURRENT CONVERTER
P/E	PNEUMATIC-TO-ELECTRIC CONVERTER
R/E	RESISTANCE-TO-VOLTAGE CONVERTER
I/I	CURRENT-TO-CURRENT CONVERTER
I/P	CURRENT-TO-PNEUMATIC CONVERTER
A/D	ANALOG-DIGITAL CONVERTER
A/M	AUTO MANUAL STATION
f(x)	FUNCTION GENERATOR
f(t)	TIME FUNCTION (DELAY,FILTER)
>	HIGH SIGNAL AUCTIONEER
<	LOW SIGNAL AUCTIONEER
Σ	SUMMER
∫	TOTALIZING (QUANTITY)
K	GAIN OR ATTENUATION
REV.	REVERSE SIGNAL
±	BIAS
Δ	DIFFERENTIAL
X	MULTIPLIER
√	SQUARE ROOT EXTRACTOR
P	PROPORTIONAL ACTION
I	RESET ACTION
D	RATE ACTION
(I)	WITH INDICATION
CO_2	CARBON DIOXIDE
COND	CONDUCTIVITY
O_2	OXYGEN
H_2	HYDROGEN
D/A	DIGITAL-ANALOG CONVERTER
TURB	TURBIDITY
Σ/N	AVE. OF N INPUTS
(high limiter symbol)	HIGH SIGNAL LIMITER
(low limiter symbol)	LOW SIGNAL LIMITER
VISC	VISCOSITY
Si	SILICA
PH	HYDROGEN ION CONCENTRATION
CL	CHLORINE
RM	REMOTE MANUAL

TRACER SAMP — RADIOACTIVE TRACER SAMPLE POINT (EFFICIENCY TEST)

TRACER INJ. — RADIOACTIVE TRACER INJECTION POINT (EFFICIENCY TEST)

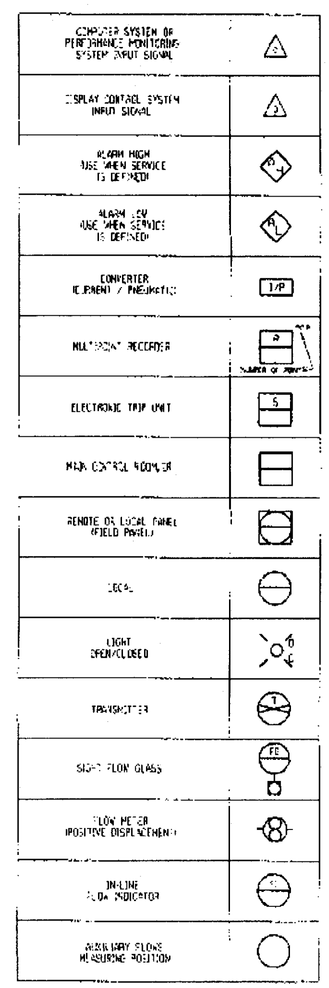
CONTROL SWITCHES



GE SYMBOLOGY

MEASURED VARIABLE (FIRST LETTER) \ INSTRUMENT FUNCTION		RECORDING	INDICATING	NON-INDICATING	CONTROL VALVE	SUMMER	FUNCTION GENERATOR	ELECTRONIC/PNEU. VALVE POSITIONER	RECORDER	INDICATOR	OBSERVATION GLASS	PRIMARY ELEMENT	TEST POINT	TRANSMITTER OR PREAMP	INTEGRATOR	AMPLIFIER	SAMPLER	INDICATING SWITCH	NON-INDICATING SWITCH	ALARMS	TRANSDUCER NON-INDICATING	TRANSDUCER INDICATING	MONITOR
		CONTROLLING (SECOND AND THIRD LETTERS)							MEASURING (SECOND AND THIRD LETTERS)												NOTE 3		
		-RC	-IC	-C	-CV	-Σ	-F	-V	-R	-I	-G	-E	-X	-T	-Q	-Am	-Sm	-IS	-S	-A	-M	-IM	-Mn
AIR	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ASm	-	-	-	-	-	-
CONDUCTIVITY	C	CRC	CIC	-	CCV	-	-	-	CR	CI	-	CE	CX	CT	-	-	CSm	CIS	CS	CA	-	-	-
DENSITY	D	DRC	DIC	DC	DCV	-	-	-	DR	DI	-	-	DX	DT	-	-	-	DIS	DS	DA	-	-	-
DIFF. PRESS.	dP	dPRC	dPIC	dPC	dPCV	-	-	-	dPR	dPI	-	-	-	dPT	-	-	-	dPIS	dPS	dPA	dPM	dPIM	-
FLOW	F	FRC	FIC	FC	FCV	FΣ	FF	-	FR	FI	FG	FE	FX	FT	FQ	-	-	FIS	FS	FA	FM	FIM	-
HYDROGEN	H_2	-	-	-	-	-	-	-	H_2R	H_2I	-	H_2E	-	-	-	-	-	-	-	-	-	-	-
HYDROGEN ION CONC.	pH	pHRC	pHIC	pHC	pHCV	-	-	-	pHR	pHI	-	pHE	pHX	-	-	pHAm	pHSm	-	-	-	-	-	-
LEVEL	L	LRC	LIC	LC	LCV	-	-	-	LR	LI	LG	-	-	LT	-	-	-	LIS	LS	LA	LM	LIM	-
MOISTURE	M	MRC	MIC	-	-	-	-	-	MR	MI	-	ME	-	MT	-	-	-	MIS	MS	-	-	-	-
NEUTRON FLUX	N	NRC	NIC	NC	-	-	-	-	NR	NI	-	NE	NX	NT	NQ	NAm	-	-	-	NA	-	-	-
OXYGEN	O_2	-	-	-	-	-	-	-	O_2R	O_2I	-	O_2E	-	-	-	-	-	-	-	-	-	-	-
PRESSURE	P	PRC	PIC	PC	PCV	-	-	-	PR	PI	-	-	PX	PT	-	-	-	PIS	PS	PA	PM	PIM	-
POSITION	Po	-	-	-		-	-	PoV	PoR	PoI	-	-	-	PoT	-		-	-	PoS	PoA	-	-	-
RADIATION	R	-	-	-	-	-	-	-	RR	RI	-	RE	RX	-	-	RAm	RSm	-	RS	RA	-	-	-
SPEED	S	SRC	SIC	SC	-	-	-	-	SR	SI	-	SE	-	-	-	-	-	-	-	-	-	-	-
TEMPERATURE	T	TRC	TIC	TC	TCV	-	-	-	TR	TI	-	TE	TX	TT	TQ	-	-	TIS	TS	TA	TM	TIM	-
TIME	t	-	-	tC	-	-	-	-	-	tI	-	-	-	-	tQ	-	-	tIS	tS	-	-	-	-
TURBIDITY	Tb	-	-	-	-	-	-	-	TbR	-	-	TbE	-	TbT	-		-	-	-	-	-	-	-
VIBRATION	Vb	-	-	-	-	-	-	-	VbR	VbI		-	-	-	-	-	-	-	VbS	VbA	-	-	-
VOLTAGE	V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	VMn
WEIGHT FACTOR	WT	WRC	WIC	-	WCV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

INSTRUMENTS



MISCELLANEOUS ABBREVIATIONS

ADS	AUTOMATIC DEPRESSURIZATION
A/S	AIR SUPPLY
AW	ACID WASTE (CORROSIVE,CAUSTIC)
CIT	CONDUCTIVITY INDICATOR TRANSMITTER
CRD	CONTROL ROD DRIVE
CRDHS	CONTROL ROD DRIVE HYDRAULIC SYSTEM
CRS	CONDUCTIVITY RECORDING SWITCH
CRW	CLEAN RADWASTE
CT	CYCLE TIMER
DRW	DIRTY RADWASTE
DTS	DIFFERENTIAL TEMPERATURE SWITCH
E/P	CONVERTER (VOLTAGE/PNEUMATIC)
EPS	SPECIAL ELECTRIC POWER SUPPLY REQUIRED
FAI	FAIL AS IS (NOT USED FOR NEW DESIGN)
F/D	FILTER DEMINERALIZER
FC	INDICATES CLOSES ON AIR OR ELECTRIC FAILURE
FIT	FLOW INDICATOR TRANSMITTER
FIV	FAIL IN VENT
FO	INDICATES OPENS ON AIR OR ELECTRICAL FAILURE
FRCS	FLOW RECORDING CONTROLLER SWITCH
HCU	HYDRAULIC CONTROL UNIT
HS	HAND SWITCH (NOT USED FOR NEW DESIGN)
HX	HEAT EXCHANGER
H2	HYDROGEN
IP	CONVERTER (CURRENT/PNEUMATIC)
LC	LOCKED OR SEALED IN CLOSED POSITION (NOT USED FOR NEW DESIGN - SEE LX)
L/DRS	LEVEL & DENSITY RECORDER SWITCH
LIM SW	LIMIT SWITCH
LIRS	LEVEL INDICATOR RECORDING SWITCH
LO	LOCKED OR SEALED IN OPEN POSITION
LOCA	LOSS OF COOLANT ACCIDENT
LRS	LEVEL RECORDING SWITCH
LX	LOCKED OR SEALED IN CLOSED POSITION
MSIV	MAIN STEAM ISOLATION VALVE
MV/I	MILLIVOLT TO CURRENT CONVERTER
NC	NORMALLY CLOSED (NOT USED FOR NEW DESIGN)
ND	NORMALLY DE-ENERGIZED
NE	NORMALLY ENERGIZED
NO	NORMALLY OPEN (NOT USED FOR NEW DESIGN)
NSSS	NUCLEAR STEAM SUPPLY SYSTEM
NW	NORMAL WASTE (CONVENTIONAL)
NWL	NORMAL WATER LEVEL
RAD	RADIATION
RM	REMOTE MANUAL
RMC	REMOTE MANUAL CONTROL
RMS	REMOTE MANUAL SWITCH
RPS	REACTOR PROTECTION SYSTEM
RPV	REACTOR PRESSURE VESSEL
SS	SELECTOR SWITCH
SSa	SELECTIVE SWITCH AUTOMATIC
SQ RT OR √	SQUARE ROOT CONVERTER
TBCCW	TURBINE BUILDING CLOSED COOLING WATER
TbRS	TURBIDITY RECORDER SWITCH
TC	TEST CONNECTION
TDS	TIME DELAY SWITCH
TODS	TORQUE OVERLOAD SWITCH
TORS	TORQUE RECORDER SWITCH
TQT	TORQUE TRANSMITTER
TRS	TEMPERATURE RECORDER SWITCH

NOTES:

1. DRAWINGS 302-001 AND 302-002 HAVE BEEN COMBINED, COMPLETELY REDRAWN, AND REFORMATTED. GILBERT AND GE SYMBOLOGY HAVE BEEN COMBINED AS APPROPRIATE.
2. FOR INSTRUMENTATION AND CONTROL SYMBOLOGY, BOTH GILBERT AND GE SYMBOLOGY IS SHOWN. WHERE MULTIPLE SYMBOLS ARE SHOWN FOR AN ITEM, THE GILBERT SYMBOL FOR THAT ITEM IS THE PREFERRED SYMBOL. THE PREFERRED SYMBOLS SHALL BE USED FOR ALL FUTURE DRAWINGS AND DRAWING CHANGE NOTICES. EXISTING SYMBOLS SHALL BE REPLACED WITH PREFERRED SYMBOLS WHENEVER A DRAWING IS CADD TRANSFERRED.
3. FOR THE TYPE OF TRANSDUCER (SWITCH OR TRANSMITTER) REFER TO THE PARTICULAR SYSTEM MASTER PARTS LIST.
4. SEE 302-201 FOR REMAINING SYMBOLS.

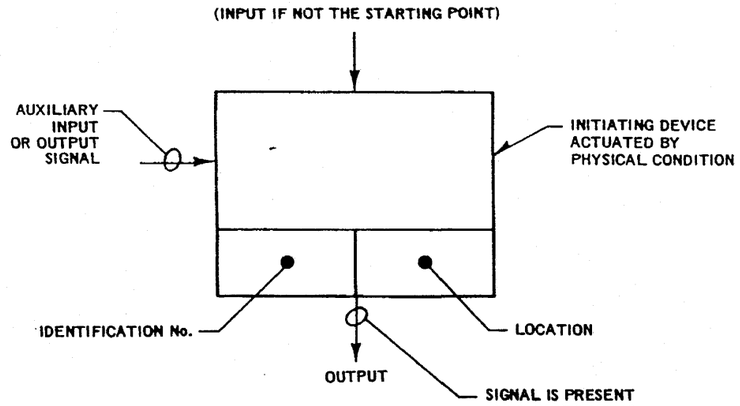
(Rev. 14 10/05)

PERRY NUCLEAR POWER PLANT

System Diagram Symbols

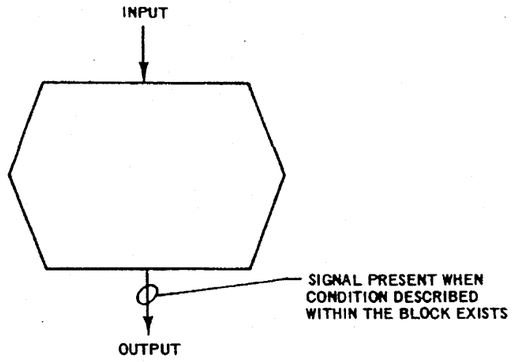
Figure 1.2-20

(Dwg. D-302-002)



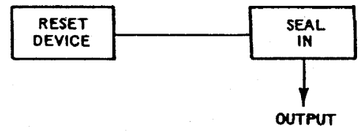
COMMAND BLOCK

THIS BLOCK CAN REPRESENT A SWITCH, VALVE, PROBE, TIMER OR TRIP CIRCUIT, IT IS NORMALLY THE STARTING POINT OF A FUNCTIONAL SEQUENCE WITH AN OUTPUT ONLY, BUT CAN HAVE INPUT AND AUX. INPUT DEPENDING ON THE TYPE OF DEVICE. THE SAME DEVICE MAY HAVE A NUMBER OF OUTPUTS, BUT EACH FUNCTIONAL SEQUENCE INITIATED SHALL BE SHOWN BY AN INDIVIDUAL BLOCK SHOWING THE SAME IDENTIFICATION NUMBER



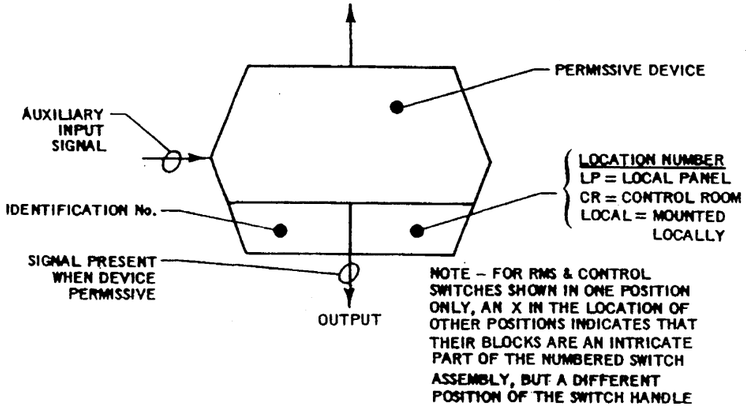
PERMISSIVE E CONDITION BLOCK

WHERE THE PERMISSIVE IS A GENERAL CONDITION AND NOT IDENTIFIED WITH A SINGLE DEVICE THE OUTPUTS ENCLOSURE ONLY IS SHOWN.



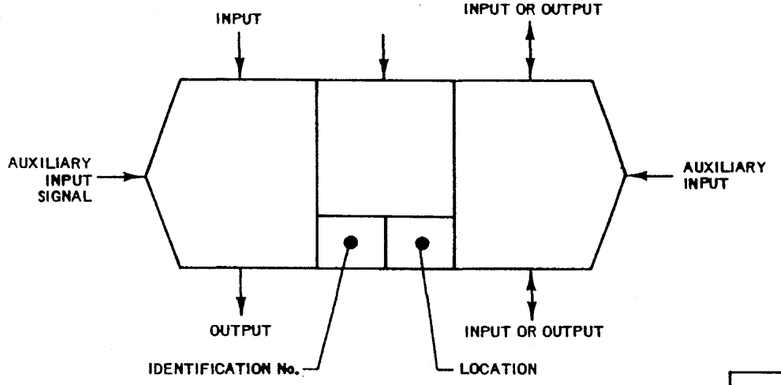
SEAL–IN BLOCK

A SEAL–IN OR LATCHING BLOCK'S FUNCTION IS TO MAINTAIN AN INPUT SIGNAL TO A DEVICE ONCE THE DEVICE HAS BEEN ACTUATED. RESETTING OR INHIBITING A SEAL–IN MAY BE EITHER EXPRESSED OR IMPLIED. IF IMPLIED, THE SEAL–IN WILL BE RESET OR INHIBITED BY INTERRUPTING THE SIGNAL TO THE DEVICE DOWNSTREAM FROM THE POINT WHERE SEAL–IN IS INDICATED. A SEAL–IN SHOWN WITHOUT A RESET DEVICE IMPLIES THAT THE RESET DEVICE IS PART OF, AND LOCATED ON THE NEAREST VALVE OR CONTACTOR. IN ALL OTHER CASES THE RESET DEVICE SHALL BE SHOWN IN CONJUNCTION WITH THE SEAL–IN.



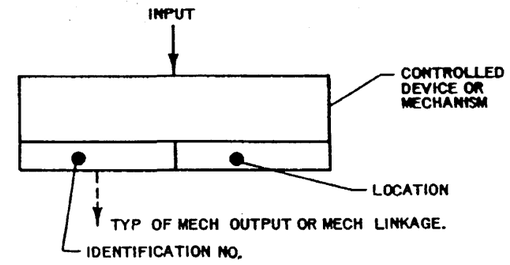
PERMISSIVE DEVICE BLOCK

THIS BLOCK DEFINES A PERMISSIVE FUNCTION WHICH MUST BE SATISFIED TO PERMIT THE SIGNAL FLOW TO PASS TO THE NEXT BLOCK. THIS BLOCK HAS INCOMING, OUTGOING AND MAY HAVE AUXILIARY SIGNALS. THE OUTPUT FROM THIS PERMISSIVE MAY BE SEALED IN



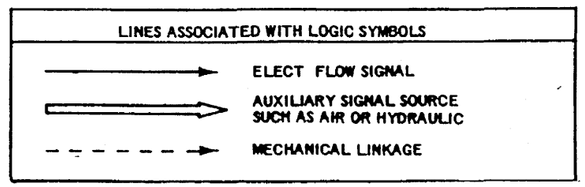
PERMISSIVE OPERATED BY OTHER DEVICES BLOCK

THIS BLOCK IS A PERMISSIVE OPERATED BY DEVICES SUCH AS VALVE OR PUMP SWITCHGEAR DESIGNATED IN THE INNER BLOCK. THIS COND OR DEVICE EFFECTS THE OPERATION OF THE FINAL DEVICE. IT HAS ELECT INPUTS, MECH INPUTS, AUX INPUTS (MECH OR ELEC) AND MECH OR ELECT OUTPUTS. THIS DEVICE IS NORMALLY A VALVE. THIS IS ALSO USED FOR OTHER INPUT/OUTPUT POWER SOURCES SUCH AS AIR OR HYDRAULIC. A SOLENOID PILOT VALVE FOR AN AIR OPERATED VALVE IS AN EXAMPLE OF THIS TYPE DEVICE.



FINAL DEVICE BLOCK

THIS BLOCK CAN BE A RELAY, VALVE, ELECTRO–MECH SW. ETC. NORMALLY IT HAS ONLY INPUTS, BUT CAN HAVE MECH OUTPUTS OR POSITION SWITCH OUTPUTS.

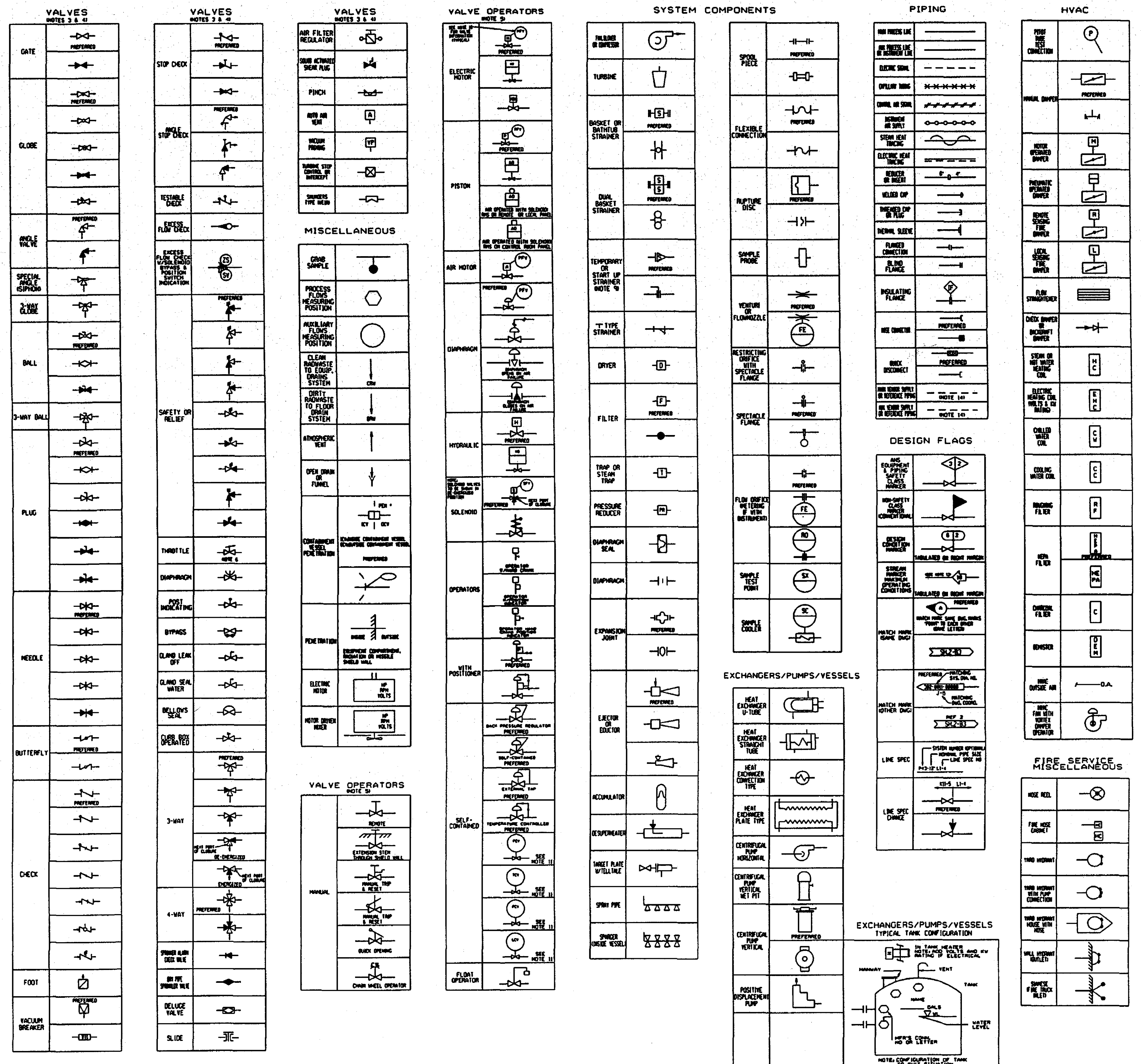


(Rev. 12 1/03)

PERRY NUCLEAR POWER PLANT

NSSS (GE) Logic Symbols Used on Functional Control Diagrams

Figure 1.2-21



NOTES:

1. DRAWINGS 302-001 AND 302-002 HAVE BEEN COMBINED, COMPLETELY REDRAWN, AND REFORMATTED. GILBERT AND GE SYMBOLOGY HAVE BEEN COMBINED AS APPROPRIATE.
2. WHERE MULTIPLE SYMBOLS ARE SHOWN FOR AN ITEM, A PREFERRED SYMBOL FOR THE ITEM IS DESIGNATED. THE PREFERRED SYMBOLS SHALL BE USED FOR ALL FUTURE DRAWINGS AND DRAWING CHANGE NOTICES. EXISTING SYMBOLS SHALL BE REPLACED WITH PREFERRED SYMBOLS WHENEVER A DRAWING IS CADD TRANSFERRED.
3. VALVE NORMAL POSITION (NORMALLY OPEN OR NORMALLY CLOSED) IS NOT SHOWN ON THE P&IDs. VALVE POSITION INFORMATION IS ONLY INCLUDED ON THE P&IDs AS IDENTIFIED IN NOTE 4. ALL SOLENOID VALVES ARE SHOWN IN THE DE-ENERGIZED POSITION.
4. A CODE MAY BE PLACED BESIDE OR BELOW A VALVE BODY SYMBOL TO CONVEY ADDITIONAL INFORMATION. LOCKED VALVES ARE ADMINISTRATIVELY CONTROLLED BY VALVE LINEUP INSTRUCTIONS (VLI'S). CODES USED ARE:
   - FAI — FAIL AS IS (NOT USED FOR NEW DESIGN)
   - FO — FAIL OPEN ON LOSS OF AIR OR ELECTRIC POWER
   - FC — FAIL CLOSED ON LOSS OF AIR OR ELECTRIC POWER
   - LC — LOCKED CLOSED (NOT USED FOR NEW DESIGN)
   - LO — LOCKED OPEN
   - LX — LOCKED CLOSED
   - NC — NORMALLY CLOSED (NOT USED FOR NEW DESIGN)
   - ND — NORMALLY DE-ENERGIZED DURING PLANT OPERATION
   - NE — NORMALLY ENERGIZED DURING PLANT OPERATION
   - NO — NORMALLY OPEN (NOT USED ON NEW DESIGN)
5. VALVE OPERATORS ARE GENERALLY APPICABLE TO SEVERAL DIFFERENT TYPES OF VALVE. VALVE TYPES SHOWN WITH OPERATORS ARE FOR ILLUSTRATION PURPOSES ONLY.
6. VALVES THROTTLED TO POSITION SHALL SHOW THE CORRECT VALVE BODY SYMBOL. NOT USED FOR NEW DESIGN; THROTTLE POSITION SHALL BE ADVISED BY A NOTE ON THE P&ID.
7. • • DESIGNATES THAT ITEM WAS FURNISHED WITH ASSOCIATED EQUIPMENT.
8. SEE 302-002 FOR MISCELLANEOUS ABBREVIATIONS AND REMAINING SYMBOLS.
9. IDENTIFIES LOCATION FOR TEMPORARY OR START UP STRAINER. THIS STRAINER REMOVED FOR PLANT OPERATION.
10. VALVE IDENTIFICATION
    - 1ST LETTER (FOR INDEX SORTING): M=MOTOR, P=AIR OR PNEUMATIC, S=SOLENOID
    - 2ND LETTER (PROCESS ACTUATION): F=FLOW, P=PRESSURE, T=TEMPERATURE, L=LEVEL, C=ALL OTHER PROCESS ACTUATIONS
    - 3RD LETTER, V FOR "VALVE"
11. THE IDENTIFICATION FOR THESE VALVES IS DEFINED ON 302-002. UNDER THE CONTROL VALVE COLUMN FOR GE SYMBOLOGY.
12. REQUIRED PIPE CAPS/PLUGS ARE SHOWN ON THE P&IDs. PIPE CAPS/PLUGS ARE ADMINISTRATIVELY CONTROLLED BY VALVE LINEUP INSTRUCTIONS (VLIs).
13. PROCESS DATA SHOWN IN THE OPERATING DATA TABLE ON EACH SYSTEM DIAGRAM SHALL BE USED IN CONJUNCTION WITH THE DESIGN BASIS INFORMATION AND SHALL BE USED WITH CAUTION. IN GENERAL, THE OPERATING DATA (PRESSURES, TEMPERATURES, AND FLOWS) PROVIDED ON EACH DRAWING REPRESENTS THE MOST COMMON OPERATING CONDITION AND/OR SYSTEM MODE OF OPERATION AND/OR LINEUP. TO DETERMINE THE REQUIRED VALUES FOR A SPECIFIC OPERATING CONFIGURATION, THE APPROPRIATE DESIGN DOCUMENTS NEED TO BE REVIEWED.
14. WHEN REFERRING TO REFERENCE PIPING, THE INTENT OF VALVES, COMPONENTS AND PIPING DEPICTED IN PHANTOM (i.e. DASHED LINES) IS TO INDICATE THE CONFIGURATION IS LOCATED ON ANOTHER SYSTEM DIAGRAM AND IS REFERENCED IN PHANTOM FOR SYSTEM CLARIFICATION PURPOSES ONLY. VENDOR SUPPLIED PIPING WILL BE IDENTIFIED AS SUCH.

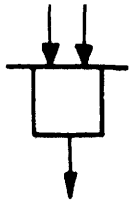
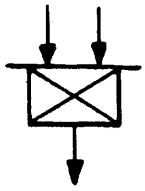
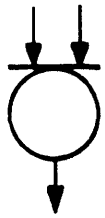
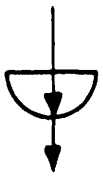
(Rev. 16 10/09)

PNPP **PERRY NUCLEAR POWER PLANT**

System Diagram Symbols

Figure 1.2-22

(Dwg. D-302-001)

SYMBOL	FUNCTION	
	AND:	A FUNCTION WHICH PRODUCES AN OUTPUT ONLY WHEN EVERY INPUT EXISTS.
	NOT:	A FUNCTION WHICH PRODUCES AN OUTPUT IF ANY OF THE INPUTS DOES NOT EXIST.
	OR:	A FUNCTION WHICH PRODUCES AN OUTPUT IF ANY ONE OF ITS INPUTS EXIST.
	TIME DELAY	A FUNCTION WHICH PRODUCES AN OUTPUT FOLLOWING A TIME DELAY AFTER RECEIVING AN INPUT.
	ADJUSTABLE TIME DELAY	A FUNCTION WHOSE OUTPUT IS DE-ENERGIZED FOLLOWING A TIME DELAY AFTER ITS INPUT IS DE-ENERGIZED.
		LOGIC INFORMATION TRANSMISSION
		ANALOG INFORMATION TRANSMISSION

LOGIC SYMBOLS

(Rev. 12 1/03)

PERRY NUCLEAR POWER PLANT

AE (GAI) Logic Symbols Used on Functional Diagrams

Figure 1.2-23