

→(DRN 04-1444, R13-B)

The following information is historical pursuant to NEI 98-03 and is identified by a designation of “start” and “end”.

Start of historical data.

←(DRN 04-1444, R13-B)

## 1.7 ELECTRICAL, INSTRUMENTATION, AND CONTROL DRAWINGS

Table 1.7-1 is a list of proprietary and nonproprietary electrical, instrumentation and control (EI&C) drawings. Three copies of all proprietary and seven copies of all nonproprietary drawings have been submitted under separate cover.

Drawing 1564-B-431 (Sheet 1 thru 11) listed in Table 1.7-1 provides symbols for flow diagrams and instrument schematics and logic diagrams.

→(DRN 04-1444, R13-B)

End of historical data.

←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)

The following table is historical pursuant to NEI 98-03 and is identified by a designation of "start" and "end".

Start of historical information.

←(DRN 04-1444, R13-B)

### WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 1 of 47)

Revision 13-B (01/05)

#### ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING				PREPARED BY	PROPRIETARY INFO.	TITLE
NO.	SHEET NO.	REVISION NO. DATE				
(A) Instrument Location Arrangement Drawings						
G-428	1	7	11-81	E		Turbine Building
	2	6	12-80	E		Turbine Building
	3	6	10-80	E		Reactor Building
	4	5	10-80	E		Reactor Building
	5	6	12-80	E		Reactor Building
	6	5	10-80	E		Reactor Building
	7	6	10-80	E		Reactor Building
	8	7	01-82	E		Reactor Building
	9	5	01-82	E		Reactor Building
	10	5	11-81	E		Reactor Building
G-429	1	5	01-82	E		Miscellaneous Area
	2	1	12-80	E		Miscellaneous Area
	3	2	12-80	E		Miscellaneous Area
G-432	1	7	11-81	E		Reactor Auxiliary Building
	2	5	12-80	E		Reactor Auxiliary Building
	3	6	05-81	E		Reactor Auxiliary Building
	4	5	12-80	E		Reactor Auxiliary Building
	5	6	12-80	E		Reactor Auxiliary Building
	6	6	07-78	E		Reactor Auxiliary Building
	7	6	01-82	E		Reactor Auxiliary Building
	8	7	01-82	E		Reactor Auxiliary Building
C-433		5	06-78	E		Fuel Handling Building
G-435	1	2	08-78	E	No	Sampling System Instr. Arrgt. (Turbine Building)
	2	2	11-78	E	No	Sampling System Instr. Arrgt. (Reactor Aux. Building)
	3	2	6-23-78	E		Sampling System (Reactor Aux. Bldg.)
	4	2	7-21-78	E		Sampling System (Reactor Bldg.)
	5	2	7-21-78	E		Sampling System (Reactor Bldg.)

#### LEGEND:

E - EBASCO  
CE - COMBUSTION ENGINEERING

→(DRN 04-1444, R13-B)

End of historical information.

←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
Start of historical information.  
←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 2 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING					
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.
TITLE					
(A) <u>Instrument Location Arrangement Drawings</u> (Cont'd)					
LOU-5817)					
G-391) Dwg's for HVAC System 70% @ 9/77					
	1	3	11-81	E	Turbine Building, HWAC System, Instrumentation
	2	2	12-80	E	Turbine Building, HVAC System Instrumentation
	3	3	08-81	E	No
	4	4	01-82	E	Reactor & Fuel Handling Bldg, HVAC Instrumentation
	5	4	11-81	E	Reactor Auxiliary Building, HVAC Instrumentation
	6	3	11-80	E	Reactor Auxiliary Building, HVAC Instrumentation
	7	3	11-81	E	Reactor Auxiliary Building, HVAC Instrumentation
					HVAC Instrumentation Location Arrangement
(B) <u>Instrument Schematics and Logic Diagrams - Safety Related</u>					
B-431	Cover	0	3-8-73	E	No
	A	1	1-18-80	E	No
	B	6	4-7-80	E	No
	c	6	4-7-80	E	No
	D	4	4-7-80	E	No
	E	6	4-7-80	E	No
	F	1	4-7-80	E	No
	0.1	0	9-30-71	E	No
	0.2	4	12-19-79	E	No
	0.3	3	7-23-79	E	No
	0.4	3	12-19-79	E	No
	0.5	3	1-18-80	E	No
	0.6	4	1-18-80	E	No
	0.7	4	1-23-80	E	No
	0.8	3	12-19-79	E	No
	0.9	1	12-19-79	E	No
	0.10	2	12-19-79	E	No
	0.11	1	12-19-79	E	No
	3AS	4	12-19-79	E	No
	4AS	4	12-19-79	E	No
	5AS	3	12-19-79	E	No
	6S	3	12-19-79	E	No
	14S	2	12-19-79	E	No
	15S	2	12-19-79	E	No
	35ASI	1	12-19-79	E	No
	35AS2	2	6-11-80	E	No
	95AS	3	12-19-79	E	No
					Instrument Schematics and Logic Diagrams
					Organization of Drawing
					Index
					Index
					Index
					Index
					Index
					Pipe, Valves & Instrument Symbols (Cover Sheet)
					Instrumentation - Symbols
					Instrumentation - Functions & Meanings or Identification Letters
					Line Designations
					Line System Description and Symbols (Abbreviations)
					Abbreviations (Continued)
					Valves Symbols
					Valves Symbols
					Pipe or Equipment Accessories Symbols
					Equipment Symbols
					Graphical Symbols for Logic Diagrams
					Containment Spray
					Containment Spray
					Containment Sump Instruments & Leak Detection
					Containment Pressure
					Main Steam Isolation Valve Steam Generator - 1
					Main Steam Isolation Valve Steam Generator - 2
					Emergency Steam Generator Feedwater System
					Emergency Steam Generator Feedwater System
					Condensate Storage Pool Instrumentation

→(DRN 04-1444, R13-B)  
End of historical information.  
←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 3 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(B) Instrument Schematics and Logic Diagrams - Safety Related						
	114AS	2	6-19-78	E	No	Shutdown Heat Exchangers
	115AS	2	6-19-78	E	No	Component Cooling Water Supply to & Return from containment
	118AIS	3	12-19-79	E	No	Containment Fan Cooler Unit System Instrumentation
	118A2S	3	12-19-79	E	No	Containment Fan Cooler Unit System Instrumentation
	120AS	2	6-11-80	E	No	Component Cooling Water Pump Schematic
	121AS	3	11-6-80	E	No	Component Cooling Water Surge Tank & Return Headers
	122AS	3	6-11-80	E	No	Component Cooling Water System A (Redrawn)
	123AS	3	6-11-80	E	No	Component Cooling Water System B (Redrawn)
B-431	124AS	3	6-11-80	E	No	Component Cooling Water Header Instrumentation
	125AS	3	6-11-80	E	No	Component Cooling Water to Control Room Chillers
	126AS	1	6-19-78	E	No	Component Cooling Water to Diesel Gen Heat Exchangers
	153S	1	12-19-79	E	No	Diesel Oil System Inst. (Diesel Oil Feed Tank "A")
	154S	1	12-19-79	E	No	Diesel Oil System Inst. (Diesel Oil Feed Tank "B")
	220S	0	8-29-78	E	No	Miscellaneous Instrumentation
	221S	1	8-29-78	E	No	RAB-CCW Pump Room "A", Air Handling
						Unit AH-10 (3A-SA) Instrumentation
	222S	1	8-29-78	E	No	RAB-CCW Pump Room "B", Air Handling
						Unit AH-10 (3B-SB) Instrumentation
	223S	1	8-29-78	E	No	RAB-Emerg. FW Pump "A" Room "A", Air Handling
						Unit AH-17 (3A-SA) Instrumentation
	224S	1	8-29-78	E	No	RAB-Emerg. FW Pump "B" Room "B", Air Handling
						Unit AH-17 (3B-SB) Instrumentation
	225S	1	8-29-78	E	No	RAB-Charging Pump "A" Room "A", Air Handling
						Unit AH-18 (3A-SA) Instrumentation
	226S	1	8-29-78	E	No	RAB-Charging Pump "B" Room "B", Air Handling
						Unit AH-18 (3B-SB) Instrumentation
	229S	2	2-12-79	E	No	RAB-Shutdown Ht. Exch. "B" Room "B", Air Handling
						Unit AH-3 (3B-SB) Instrumentation
	230S	1	8-29-78	E	No	RAB-Sbuidown Ht. Exch "A" Room "A", Air Handling
						Unit AH-3 (3A-SA) Instrumentation
	231S	1	8-29-78	E	No	RAB-CCW Pump Ht. Exch. "B" Room "B", Air Handling
						Unit AH-24 (3B-SB) Instrumentation
	232S	1	8-29-78	E	No	RAB-CCW Pump Ht. Exch. "A" Room "A", Air Handling
						Unit AH-24 (3A-SA) Instrumentation
	233S	2	2-12-79	E	No	RAB-Safeguard Pumps Room "A", Air Handling
						Unit AH-2 (3A-SA) Instrumentation
	234S	2	2-12-79	E	No	RAB-Safeguard Pumps Room "A", Air Handling
						Unit AH-2 (3C-SA) Instrumentation

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 4 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
(B) Instrument Schematics and Logic Diagrams - Safety Related						
B-431	235S	2	2-12-79	E	No	RAB-Safeguard Pumps Room "B", Air Handling Unit AH-2 (3B-SB) Instrumentation
	236S	2	2-12-79	E	No	RAB-Safeguard Pumps Room "B", Air Handling Unit AH-2 (3D-SB) Instrumentation
	237S	2	2-12-79	E	No	RAB-Safeguard Pump Room "A", Air Handling Unit AH-21 (3-SAB) instrumentation
	238S	1	8-29-78	E	No	RAB-Control Room Equipment Room, Air Handling Unit AH-26 (3A-SA) Instrumentation
	239S	1	8-29-78	E	No	RAB-Control Room Equipment Room, Air Handling Unit AH-26 (3B-SH) Instrumentation
	240S	1	8-29-78	E	No	RAB-CCW Pump Room "A/B", Air Handling Unit AH-20 (3B-SAB) Instrumentation
	241S	1	8-29-78	E	No	RAB-CCW Pump Room "A/B", Air Handling Unit AH-20 (3A-SAB) Instrumentation
	242S	1	8-29-78	E	No	RAB-Charging Pump Room "A/B", Air Handling Unit AH-22 (3A-SAB) Instrumentation
	243S	1	8-29-78	E	No	RAB-Charging Pump Room "A/B", Air Handling Unit AH-22 (3B-SAB) Instrumentation
	245S	2	12-14-79	E	No	Control Atmos Release System (CARS) Instrumentation
	246S	1	8-29-78	E	No	Switchgear Area Ventilation System AH-25 (3A-SA)
	247S	1	8-29-78	E	No	Switchgear Area Ventilation System AH-25 (3B-SB)
	248S	1	8-29-78	E	No	Battery Rm Exhaust Fans
	251S	2	12-14-79	E	No	Emerg Diesel Gen Rm "A" Vent Sys Fan E-28 (3A-SA)
	252S	2	12-19-79	E	No	Emerg Diesel Gen Rm "B" Vent Sys Fan E-28 (3B-SB)
	253S	2	12-14-79	E	No	Water Chiller WC-1 (3A-SA)
	254S	2	12-14-79	E	No	Water Chiller WC-1 (3B-SB)
	255S	2	12-14-79	E	No	Water Chiller WC-1 (3C-SA/B)
	256S	2	12-14-79	E	No	Chiller Water Sys Isol Valves
	260S	1	12-06-78			Control Room, Conference Room & Kitchen Exhaust Fan
	261S	1	12-06-78	E	No	Control Rm Toilet Exh Fans E-34 (3A-SA) & E-34 (3B-SB)
	262S	1	12-14-79	E	No	Swgr Area Vent System AH-30 (3A-SA)
	263S	2	12-14-79	E	No	Swgr Area Vent System AH-30 (3B-SB)
	264S	3	9-18-81	E	No	Cont Rm Emerg Filtration Unit S-8 (3A-SA)
	265S	2	9-18-81	E	No	Cont Rm Emerg Filtration Unit S-8 (3B-SB)
	266S	1	12-6-78	E	No	Cont Rm Air Handling Unit AH-12 (3A-SA)
→(DRN 01-758, R11-A)	267S	2	12-14-79	E	No	Cont Rm Air Handling Unit AH-12 (3B-SB)
←(DRN 01-758, R11-A)	268S	3	9-18-81	E	No	SH1eld Bldg Vent System E-17 (3A-SA)

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
Start of historical information.  
←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 5 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(B) Instrument Schematics and Logic Diagrams - Safety Related						
B-431	269S	3	9-18-81	E	No	SH1eld Bldg Vent System E-17 (3B-SB)
	270S	1	2-12-79	E	No	RAB HVAC Equip Rm Vent System AH-13 (3A-SA) & E-41 (3A-SA)
	271S	1	2-12-79	E	No	AH-13 (3A-SA) Rm Vent System
						AH-13 (3B-SB) & E-41 (3B-SB)
	272S	0	8-29-78			Fuel Handling Building Normal Supply Fan AH-14 (3)
	274S	2	9-18-81	E	No	FHB Emerg Filtration Unit E-35 (3A-SA)
	275S	2	9-18-81	E	No	FHB Emerg Filtration Unit E-35 (3B-SB)
	276S	0	8-29-78			Fuel Handling Building Mechanical
						Equipment Room Exhaust Fans E-21 (3A-SA) & E-21 (3B-SB)
	283S	1	9-8-81	E	No	Containment Vacuum Relief
	284S	0	8-29-78	E	No	Containment Fan Clr AH-1 (3C-SA) & (3A-SA)
	285S	0	8-29-78	E	No	Containment Fan Clr AH-1 (3D-SB) & (3B-SB)
	289S	0	8-29-78	E	No	Battery Rooms Fan Room Fans E-52 (3A-SA) & (3B-SB)
	295S	2	9-8-81	E	No	Containment Purge System
	296S	1	9-8-81	E	No	CVAS Exhaust Fan E-23 (3A-SA)
	297S	2	9-8-81	E	No	CVAS Exhaust Fan E-23 (3B-SB)
	298S	1	12-19-79	1	No	CVAS Isolation Valves
	299S	1	12-19-79	E	No	CVAS Isolation Valves

→(DRN 04-1444, R13-B)  
End of historical information.  
←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
Start of historical information.  
←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 6 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(B) Instrument Schematics and Logic Diagrams - Safety Related						
B-431	1	2	12-14-79	E	No	Containment Spray
	2A	3	12-19-79	E	No	Refueling Water Storage Pool Makeup Control
	11	1	12-14-79	E	No	Main Steam System
	12	4	12-19-79	E	No	Main Steam From Steam Generator - 1
	13A	4	12-19-79	E	No	Main Steam From Steam Generator - 2
	16A	4	12-19-79	E	No	Steam to Steam Generator Feedwater Pump Turbines
	17A	3	12-19-79	E	No	Main Steam to H.P. Turbine
	18A	2	6-19-78	E	No	Steam Dump Lines
	19	4	2-12-79	E	No	Main Steam to Moisture Separator Reheaters
	24	0	12-14-79	E	No	Auxiliary Steam System
	25	1	12-19-79	E	No	Auxiliary Steam System
	26	1	12-19-79	E	No	Auxiliary Steam System
	31	1	12-14-79	E	No	Feedwater System
	32A-1	3	3-19-80	E	No	Feedwater Pump "A" Flow System
	32A-2	1	12-19-79	E	No	Feedwater Pump "A" Flow System
	33A-1	1	3-19-80	E	No	Feedwater Pump "B" Flow System
	33A-2	1	12-19-79	E	No	Feedwater Pump "B" Flow System
	34	4	12-19-79	E	No	Feedwater to H.P. Heater IA/LB/IC
	46	1	12-14-79	E	No	Extraction Steam System
	47A	4	12-19-79	E	No	Extraction Steam From H.P. Turbine to H.P. Heaters IA/IB/IC
	48A	4	12-19-79	E	No	Cold Reheat Steam from H.P. Turbine to L.P. Heaters 2A/2B/2C
	49	2	6-19-78	E	No	Steam to L.P. Turbines A/B/C
	50	3	6-19-78	E	No	Condenser Vacuum
	51A	4	12-19-79	E	No	Extraction Steam From L.P. Turbine to I.P. Heater 3A
	52A	4	12-19-79	E	No	Extraction Steam From L.P. Turbine to I.P. Heater 3B
	53A	4	12-19-79	E	No	Extraction Steam From L.P. Turbine to I.P. Heater 3C
	54A	4	12-19-79	E	No	Extraction Steam From L.P. Turbine to I.P. Heater 4A
	55A	4	12-19-79	E	No	Extraction Steam From L.P. Turbine to I.P. Heater 4B
	56A	4	12-19-79	E	No	Extraction Steam from L.P. Turbine to I.P. Heater 4C
	58	0	6-19-78	E	No	L.P. Heaters 5 & 6 Shell Pressure
	59	0	6-19-78	E	No	Cold Reheat from H.P. Turbine to Moisture Separator Reheater
	66	1	12-14-79	E	No	Heater Drain System
	67A	4	12-19-79	E	No	Moisture Separator "A" Drain System Instrumentation
	68A	4	12-19-79	E	No	Moisture Separator "B" Drain System Instrumentation
	69	3	12-19-79	E	No	Heater IA/IB/IC Drain System Instrumentation
	70A	5	8-10-81	E	No	Heater 2A & Drain Pump System Instrumentation
	71A	5	8-10-81	E	No	Heater 2B & Drain Pump System Instrumentation
	72A	5	8-10-81	E	No	Heater 2C & Drain Pump System Instrumentation

→(DRN 04-1444, R13-B)  
End of historical information.  
←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 7 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET	REVISION		PREPARED	PROPRIETARY	TITLE
	NO.	NO.	DATE	BY	INFO.	
(B) Instrument Schematics and Logic Diagrams - Non-Safety Related						
B-431	73	3	12-19-79	E	No	Heater 3A/3B/3C Drain System Instrumentation
	74	3	12-19-79	E	No	Heater 4A/4B/4C Drain System Instrumentation
	75	3	12-19-79	E	No	Heater 5A/5B/5C Drain System Instrumentation
	76	3	12-19-79	E	No	Heater 6A/6B/6C Drain System Instrumentation
	77	2	2-12-80	E	No	M.S.R. "A" Shell Drain List
	78	2	2-12-80	E	No	M.S.R. "B" Shell Drain List
	86	1	12-14-79	E	No	Condensate System
	87	4	12-19-79	E	No	Condensate To and From Gland Steam Condenser
	88A	4	12-19-79	E	No	Condenser Hotwell Level Control
	89	4	2-12-80	E	No	Condensate to and from Heaters in Condenser Neck
	91A	3	12-19-79	E	No	Gland Seal Leakoff Tank Level Control
	92	3	2-12-80	E	No	Condensate to and from IP Heaters
	93A	4	12-19-79	E	No	Condensate Pumps
	94A	3	12-19-79	E	No	Primary Water & CNDS Storage Tank System
	101	1	12-14-79	E	No	Turbine Closed Cooling Water System
	102A	3	2-12-80	E	No	Surge Tank & Turbine Cooling Water Pumps Instrumentation System
	103	3	2-12-80	E	No	Turbine Cooling Water Heat Exchangers Instrumentation System
	104	2	12-19-79	E	No	Cooling Water to Turbine L.O. Coolers
	105	0	6-19-78	E	No	Cold Gas System Generator Cooling
	106	1	12-19-79	E	No	Steam Generator Feed Pump Turbine Coolers "A & B"
	107	0	6-19-78	E	No	Generator Stator Water Coolers
	108	0	6-19-78	E	No	Turbine Electro Hydraulic Fluid Cooling
	111	1	12-14-79	E	No	Component Closed Cooling Water System
	112	3	12-19-79	E	No	Cooling Water System for Pump Coolers (TYP)
	113	1	6-19-78	E	No	Waste and Boric Acid Concentrator
	116A	3	12-19-79	E	No	Reactor Coolant Pumps Coolers
	117	4	12-19-79	E	No	Letdown Heat Exchanger Cooling Water System
	119	4	12-19-79	E	No	Fuel Pool Heat Exchanger Cooling Water System
	128	1	12-14-79	E	No	Firewater and Domestic Water System
	129A	2	7-23-79	E	No	Firewater Storage System
	136	1	12-14-79	E	No	Lube Oil System
	146	1	12-14-79	E	No	Instrument and Station Air System
	147	2	7-23-79	E	No	Station Air System
	148	2	7-23-79	E	No	Instrument Air System
	152	1	12-14-79	E	No	Emergency Diesel Generator Oil System
	156	1	12-14-79	E	No	Condenser Cooling Water System
	157A	2	12-19-79	E	No	Circulating Water Pumps Schematic
	158	1	6-19-78	E	No	Cooling Water to Turbine Closed Cooling Water Heat Exchangers
	159A	1	6-19-78	E	No	CW Air Evacuation Pumps Schematic

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)



→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 8 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(B) Instrument Schematics and Logic Diagrams - Non-Safety Related						
B-431	160	1	6-19-78	E	No	Cooling Water to and From Condenser "A"
	161	1	6-19-78	E	No	Cooling Water to and From Condenser "B"
	162	1	6-19-78	E	No	Cooling Water to and From Condenser "C"
	163A-1	0	6-30-78	E	No	Screen Wash System
	163A-2	0	6-30-78	E	No	Screen Wash System
	171	1	12-14-79	E	No	Gas System
	181	1	12-14-79	E	No	Blowdown System
	182	0	9-19-78	E	No	Steam Generator Blowdown System Inst.
	183	1	12-19-79	E	No	Blowdown Tank & Blowdown Pumps "A & B"
	184	1	12-19-79	E	No	Blowdown Heat Exchangers "A & B"
	185	1	12-19-79	E	No	Blowdown Demineralizer System
	190	0	6-19-78	E	No	Sump Pumps Level Instruments
	191	1	12-14-79	E	No	Sampling Systems
	201	1	12-14-79	E	No	Containment Air
	202	2	12-19-79	E	No	Containment Radiation Monitoring
	211	1	12-14-79	E	No	HVAC System
	212	1	12-14-79	E	No	Supplementary Chiller Cooling Tower and Chiller Water Control
	213	1	12-14-79	E	No	Supplementary Chiller Cooling Tower and Chiller Water Control
	214	1	12-14-79	E	No	Supplementary Chilled Water Control
	215	1	12-14-79	E	No	Supplementary Chilled Water Cooling Tower Makeup Control
	217	1	5-05-81	E	No	Condensate Pump "A" Motor Exhaust Fans E-53 (3A&3B)
	218	0	8-29-78	E	No	Condensate Pump "B" Motor Exhaust Fans E-54 (3&3B)
	219	0	8-29-78	E	No	Condensate Pump "C" Motor Exhaust Fans E-55 (3A&3B)
	227	1	8-29-78	E	No	RAB Blowdown Filter "B" Room "B" Air Handling Unit AH-28 (3) Instrumentation
	228		8-29-78	E	No	RAB Blowdown Filter "A" Room "A", Air Handling Unit AH-27 (3) Instrumentation
	244	2	12-14-79	E	No	Reactor Cavity Cooling System Instrumentation S-2(3A) & S-2 (3B)
	249	2	7-23-79	E	No	Turbine Area Supply Fan S-10 (3)
	250	2	7-23-79	E	No	Typical Turbine Area Exhaust Fan
	257	2	12-14-79	E	No	Annulus Negative Pressure System
	258	0	9-29-78	E	No	Airborne Radioactivity Removal System Fan E-13 (3A)
	259	0	9-29-78	E	No	Airborne Radioactivity Removal System Fan E-13 (3B)
	273	0	9-29-78	E	No	Fuel Handling Building Normal Exhaust Fans E-20 (3A) & E-20(3B)
	277	0	9-29-78	E	No	CEDM Fans (Inlet)
	278	0	2-12-78	E	No	CEDM Fans E-16(3A), E-16(3B), E-16(3C) & E-16(3D)
	279	0	9-29-79	E	No	Reactor Aux. Bldg. AH-5(3) & E-47(3)

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 9 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(B) Instrument Schematics and Logic Diagrams - Non-Safety Related						
B-431	280	0	9-29-78	E	No	Reactor Aux Bldg. AH-8(3)
	281	0	9-29-78	E	No	RAB Smoke Purge Fans E-48(3) & E-50(3)
	282	0	9-29-78	E	No	Cable Vault Area Exhaust Fan E-49(3)
	286	0	9-29-78	E	No	Containment Fan Coolers Condensate Flow Detection
	287	0	2-25-81	E	No	Turbine Bldg. Swgr Unit AH-15(3)
	288	0	2-25-81	E	No	Turbine Bldg. Swgr Unit AH-29(3)
	290	0	9-29-78	E	No	Computer Room Supplemental Air Handling System AH-31(3)
	291	0	10-16-78	E	No	Hot Machine Shop Ventilation System
	292	2	12-19-78	E	No	Decontamination Facility Ventilation System
	293	1	10-16-78	E	No	RAB Normal Supply Fans
	294	1	12-19-79	E	No	RAB Normal Exhaust Fans

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 10 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET	REVISION		PREPARED	PROPRIETARY	TITLE
	NO.	NO.	DATE	BY	INFO.	
(C) Control Wiring Diagrams - Safety Related						
B-424	I	Open	9-82	E	No	Index
	II	Open	9-82	E	No	Index
	III	Open	9-82	E	No	Index
	IV	Open	9-82	E	No	Index
	V	Open	9-82	E	No	Index
	VI	Open	9-82	E	No	Index
	VII	Open	9-82	E	No	Index
	VIII	Open	9-82	E	No	Index
	IX	Open	9-82	E	No	Index
	X	Open	9-82	E	No	Index
	XI	Open	9-92	E	No	Index
	XII	Open	9-82	E	No	Index
	XIII	Open	9-82	E	No	Index
	XIV	Open	9-82	E	No	Index
	XV	Open	9-82	E	No	Index
	XVI	Open	9-82	E	No	Index
	XVII	Open	9-82	E	No	Index
	XVIII	Open	9-82	E	No	Index
	XIX	Open	9-82	E	No	Index
	XX	Open	9-82	E	No	Index
	XXI	Open	9-82	E	No	Index
	XXII	Open	9-82	E	No	Index
	XXIV	1	9-82	E	No	List of Abbreviations
	XXV	1	9-82	E	No	List of Abbreviations
	XXVI	1	9-82	E	No	List of Abbreviations
	XXVII	1	9-82	E	No	List of Abbreviations
	XXVIII	1	9-82	E	No	List of Abbreviations
	XXIX	1	9-82	E	No	List of Abbreviations
	XXX	1	9-82	E	No	List of Abbreviations
	XXXI	1	9-82	E	No	List of Abbreviations
	XXXII	1	9-82	E	No	List of Abbreviations
	XXXIII	0	9-82	E	No	Device Numbers and Definitions
	XXXIV	0	9-82	E	No	Device Numbers and Definitions
	XXXV	0	9-82	E	No	Device Numbers and Definitions
	XXXVI	0	9-82	E	No	Device Numbers and Definitions
	XXXVII	0	9-82	E	No	Device Numbers and Definitions
	XXXVIII	0	9-82	E	No	Device Numbers and Definitions
	XL	1	10-21-78	E	No	Graphical Symbols
	XLI	0	10-21-78	E	No	Graphical Symbols

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 11 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET	REVISION		PREPARED BY	PROPRIETARY INFO.	TITLE
	NO.	NO.	DATE			
(C) Control Wiring Diagrams - Safety Related (Cont'd)						
B-424	XLII	0	2-28-80	E	No	Typical Breaker Closing Circuits
	XLIII	2	4-11-80	E	No	Typical Plug Connection Diagram
	XLIV	0	2-28-80	E	No	Isolation Relays - Typical Wiring Diagrams
	IS	9	9-82	E	No	CEA Drive MG Set A Supply BKR
	3S	10	8-82	E	No	CFA Drive MG Set B Supply BKR
	5S	7	10-27-80	E	No	Reactor Trip Bkr TCB1
	6S	6	10-27-80	E	No	Reactor Trip Bkr TCH2
	7S	7	9-82	E	No	Reactor Trip Bkr TCB3
	8s	6	10-27-80	E	No	Reactor Trip Bkr TCB4
	9s	5	10-27-80	E	No	Reactor Trip Bkr TCB5
	10s	5	10-27-80	E	No	Reactor Trip Bkr TCB6
	11s	5	10-27-80	E	No	Reactor Trip Bkr TCB7
	12S	5	10-27-80	E	No	Reactor Trip Bkr TCB8
	13S	7	10-27-80	E	No	Reactor Trip Bkr TCB9
	21S	10	9-82	E	No	CEA No. 1
	22S	9	9-82	E	No	CEA No. 2
	23S	9	9-82	E	No	CFA No. 3
	24S	8	9-82	E	No	CEA No. 4
	25S	9	9-82	E	No	CEA No. 5
	26S	9	9-82	E	No	CEA No. 6
	27S	8	9-82	E	No	CEA No. 7
	28S	8	9-82	E	No	CEA No. 8
	29S	9	9-82	E	No	CEA No. 9
	30S	8	9-82	E	No	CEA No. 10
	31S	8	9-82	E	No	CFA No. 11
	32S	8	9-82	E	No	CEA No. 12
	33S	8	9-82	E	No	CFA No. 13
	34S	8	9-82	E	No	CEA No. 14
	35S	9	9-82	E	No	CEA No. 15
	36S	8	9-82	E	No	CEA No. 16
	37S	9	9-82	E	No	CEA No. 17
	38S	8	9-82	E	No	CEA No. 18
	39S	8	9-82	E	No	CEA No. 19
	40S	8	9-82	E	No	CEA No. 20
	41S	8	9-82	E	No	CEA No. 21
	42S	8	9-82	E	No	CEA No. 22
	43S	9	9-82	E	No	CEA No. 23
	44S	8	9-92	E	No	CEA No. 24
	45S	8	9-82	E	No	CEA No. 25

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 12 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING							
NO.	SHEET NO.	REVISION		PREPARED BY	PROPRIETARY INFO.	TITLE	
		NO.	DATE				
(C) <u>Control Wiring Diagrams - Safety Related</u> (Cont'd)							
B-424	46S	9	9-82	E	No	CEA No. 26	
	47S	8	9-82	E	No	CEA No. 27	
	48S	8	9-82	E	No	CEA No. 28	
	49S	8	9-82	E	No	CEA No. 29	
	50S	8	9-82	E	No	CEA No. 30	
	51S	8	9-82	E	No	CEA No. 31	
	52S	8	9-82	E	No	CEA No. 32	
	53S	9	9-82	E	No	CEA No. 33	
	54S	8	9-82	E	No	CEA No. 34	
	55S	8	9-82	E	No	CEA No. 35	
	56S	8	9-82	E	No	CEA No. 36	
	57S	9	9-82	E	No	CEA No. 37	
	5as	9	9-82	E	No	CEA No. 38	
	59S	9	9-82	E	No	CEA No. 39	
	60S	8	9-82	E	No	CEA No. 40	
	61S	8	9-82	E	No	CFA No. 41	
	62S	8	9-82	E	No	CEA No. 42	
	63S	8	9-82	E	No	CEA No. 43	
	64S	9	9-82	E	No	CEA No. 44	
	65S	8	9-82	E	No	CEA No. 45	
	66S	8	9-82	E	No	CEA No. 46	
	67S	8	9-82	E	No	CEA No. 47	
	68S	8	9-82	E	No	CEA No. 48	
	69S	8	9-82	E	No	CEA No. 49	
	70S	9	9-82	E	No	CEA No. 50	
	71S	8	9-82	E	No	CRA No. 51	
	72S	10	9-82	E	No	CEA No. 52	
	73S	10	9-82	E	No	CEA No. 53	
	74S	9	9-82	E	No	CEA No. 54	
	75S	9	9-82	E	No	CEA No. 55	
	76S	9	9-82	E	No	CEA No. 56	
	77S	8	9-82	E	No	CEA No. 57	
	78S	8	9-82	E	No	CEA No. 58	
	79S	8	9-82	E	No	CEA No. 59	
	80S	8	9-82	E	No	CEA No. 60	
	81S	8	9-82	E	No	CEA No. 61	
	82S	8	9-82	E	No	CEA No. 62	
	83S	8	9-82				
	84S	8	9-82	E	No	CEA No. 64	

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

➔(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ⬅(DRN 04-1444, R13-B)

WSES-FSAR-UNIT 3

⬅(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 13 of 47)

Revision 307 (07/13)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
(C) <u>Control Wiring Diagrams - Safety Related</u> (Cont'd)						
B-424	85S	8	9-82	E	No	CEA No. 65
	86S	9	9-82	E	No	CEA No. 66
	87S	8	9-82	E	No	CEA No. 67
	88S	8	9-82	E	No	CEA No. 68
	89S	8	9-82	E	No	CEA No. 69
	90S	8	9-82	E	No	CEA No. 70
	91s	8	9-82	E	No	CEA No. 71
	92S	8	9-82	E	No	CEA No. 72
	93S	8	9-82	E	No	CEA No. 73
	94S	8	9-82	E	No	CEA No. 74
	95S	9	9-82	E	No	CEA No. 75
	96S	8	9-82	E	No	CEA No. 76
	97S	9	9-82	E	No	CEA No. 77
	98S	8	9-82	E	No	CEA No. 78
	99S	8	9-82	E	No	CEA No. 79
	100S	8	9-82	E	No	CEA No. 80
	101S	8	9-82	E	No	CEA No. 81
	102S	8	9-82	E	No	CEA No. 82
	103S	8	9-82	E	No	CEA No. 83
	104S	9	9-82	E	No	CEA No. 84
	105S	8	9-82	E	No	CEA No. 85
	106S	9	9-82	E	No	CEA No. 86
	107S	8	9-82	E	No	CEA No. 87
➔(EC-2800, R307)						
⬅(EC-2800, R307)						
	113S	4	9-82	E	No	Excore Neutron Flux Protective Channel A
	114S	4	9-82	E	No	Excore Neutron Flux Protective Channel B
	115S	4	9-82	E	No	Excore Neutron Flux Protective Channel C
	116S	4	9-82	E	No	Excore Neutron Flux Protective Channel D
	119S	9	9-82	E	No	Incore Neutron Flux Det 93A-L16 & 93A-G18
						Incore Neutron Flux Det 93A-E20 & 93A-GI3
	120S	9	9-82	E	No	Incore Neutron Flux Det 95A-A14 & 95A-C9
	121S	8	9-82	E	No	Incore Neutron Flux

➔(DRN 04-1444, R13-B)  
 End of historical information.  
 ⬅(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
Start of historical information.  
←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 14 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) Control Wiring Diagrams - Safety Related (Cont'd)						
B-424	122S	8	9-82	E	No	Det 95A-E6 & 96A-C2 Incore Neutron Flux
	123S	8	9-82	E	No	Det 96A-C4 & 98A-T2 Incore Neutron Flux
	124S	8	9-82	E	No	Det 98A-19 & 98AR4 Incore Neutron Flux
	125S	8	9-82	E	No	Det 100A-T16 & 101A-W18 Incore Neutron Flux
	126S	8	9-82	E	No	Det 92B-R18 & 92B-120 Incore Neutron Flux
	127S	8	9-82	E	No	Det 94B-E16 & 94B-C18 Incore Neutron Flux
	128S	8	9-82	E	No	Det 96B-E2 & 97B-G6 Incore Neutron Flux
	129S	8	9-82	E	No	Det 97B-R2 & 97B-G4 Incore Neutron Flux
	130S	8	9-82	E	No	Det 99B-W4 & 99B-T9 Incore Neutron Flux
	131S	8	9-92	E	No	Det 99B-R13 & 99B-T6 Incore Neutron Flux
	132S	8	9-92	E	No	Det 100B-Y8 & 101B-T20 Incore Neutron Flux
	133S	9	9-82	E	No	Det 92C-C20 & 93C-G16 Incore Neutron Flux
	134S	8	9-82	E	No	Det 93C-L13 & 94C-C9 Incore Neutron Flux
	135S	8	9-82	E	No	Det 94C-C16 & 95C-E9 Incore Neutron Flux
	136S	8	9-82	E	No	Det 96C-E4 & 96C-Ag Incore Neutron Flux
	137S	8	9-82	E	No	Det 97C-L2 & 98C-R6 Incore Neutron Flux
	138S	8	9-82	E	No	Det 99C-W6 & 100C-W13 Incore Neutron Flux
	139S	8	9-82	E	No	Det 100C-T13 & 101C-T18 Incore Neutron Flux
	140S	8	9-82	E	No	Det 92D-L1B & 92D-R16

→(DRN 04-1444, R13-B)  
End of historical information.  
←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 15 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION		PREPARED BY	PROPRIETARY INFO.	TITLE
	NO.	NO.	DATE	BY		
(C) Control Wiring Diagrams - Safety Related (Cont'd)						
B-424	141S	8	9-82	R	No	Incore Neutron Flux Det 93D-E18 & 94D-EI3
	142S	8	9-82	E	No	Incore Neutron Flux Det 95D-C13 & 96D-C6
	143S	8	9-82	E	No	Incore Neutron Flux Det 97D-L4 & 98D-T4
	144S	8	9-82	E	No	Incore Neutron Flux Det 98D-L6 & 99D-R9
	145S	8	9-82	E	No	Incore Neutron Flux Det 100D-W9 & 101D-Y14
	146S	8	9-82	E	No	Incore Neutron Flux Det 101D-W16 & 101D-R20
	147S	5	9-82	E	No	Incore Thermocouples SH. 1
	148S	5	9-9-80	E	No	Incore Thermocouples SH. 2
	149S	5	9-82	E	No	Incore Thermocouples SH. 3
	150S	5	9-9-80	E	No	Incore Thermocouples SH. 4
	151S	5	9-9-80	E	No	Incore Thermocouples SH. 5
	152S	5	9-9-80	E	No	Incore Thermocouples SH. 6
	153S	5	9-9-80	R	No	Incore Thermocouples SH. 7
	154S	5	9-9-80	E	No	Incore Thermocouples SH. 8
	160S	8	9-82	E	No	ESFAS Auxiliary Relay Cab A Alarms Sh. 1
	162S	2	10-4-78	E	No	ESFAS Auxiliary Relay Cab A Test Module
	165S	3	9-82	E	No	ESFAS Auxiliary Relay Cab B Alarms Sh. 1
	167S	2	3-9-79	E	No	ESFAS Auxiliary Relay Cab B Test Module
	170S	8	9-82	E	No	ESFAS Auxiliary Relays
	176S	8	9-26-79	E	No	Auxiliary Protective Cab Computer & Alarm Channel A
	177S	10	9-82	E	No	Auxiliary Protective Cab Computer & Alarm Channel B
	178S	10	9-82	E	No	Auxiliary Protective Cab Computer & Alarm Channel C
	179S	9	9-82	E	No	Auxiliary Protective Cab Computer & Alarm Channel D
	180S	2	9-82	E	No	Auxiliary Protective Cab Interconnections
	188S	4	9-82	E	No	Control Board Mounted Nuclear Instrumentation Sh. 2
	189S	7	9-82	E	No	Control Board Mounted Nuclear Instrumentation Sh. 3

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)



→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 16 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) Control Wiring Diagrams - Safety Related (Cont'd)						
B-424	19is	3	3-22-79	E	No	Control Board Mounted Nuclear Instrumentation Sh. 5
	193S	2	3-27-79	E	No	Control Board Miscellaneous Instrumentation Sh. 2
	194S	4	4-3-79	E	No	Control Board Miscellaneous Instrumentation Sh. 3
	195S	4	9-82	E	No	Control Board Miscellaneous Instrumentation Sh. 4
	199S	7	9-82	E	No	Power Supplies Pnl's CP-25, 26, 27, 28, 29, 30, 31
	201S	9	9-82	E	No	RCS Loop 1 Temp (Hot Leg)
	202S	9	9-82	E	No	RCS Loop 2 Temp (Hot Leg)
	207S	9	9-82	E	No	RCS Loop 1 Temp (Cold Leg)
	208S	9	9-82	E	No	RCS Loop 2 Temp (Cold Leg)
	210S	7	9-82	E	No	Steam Gen No. 1 Press Sh. 1
	211S	4	9-82	E	No	Steam Gen No. 1 Press Sh. 2
	212S	7	9-82	E	No	Steam Gen No. 1 Level Sh. 1
	213S	4	9-82	E	No	Steam Gen No. 1 Level Sh. 2
	215S	7	9-82	E	No	Steam Gen No. 2 Press Sh. 2
	216S	4	9-82	E	No	Steam Gen No. 2 Press Sh. 2
	217S	4	9-82	E	No	Steam Gen No. 2 Level Sh. 1
	218S	5	9-82	E	No	Steam Gen No. 2 Level Sh. 2
	225S	11	9-82	E	No	Reactor Coolant Pump 1A
	226S	4	9-82	E	No	Alarms and Computer Input Sh 2
	235S	14	9-82	E	No	Reactor Coolant Pump 1A Protective Speed
	236S	3	9-82	E	No	Reactor Coolant Pump 1B
	245S	12	9-82	E	No	Alarms and Computer Inputs Sh 2
	246S	3	9-82	E	No	Reactor Coolant Pump 1B Protective Speed
	255S	14	9-82	E	No	Reactor Coolant Pump 2A
						Alarms and Computer Inputs Sh 2
						Reactor Coolant Pump 2A Protective Speed
						Reactor Coolant Pump 2B
						Alarms and Computer Inputs Sh 2

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 17 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
→ (DRN 01-758, R11-A)						
(C) Control Wiring Diagrams - Safety Related (Cont'd)						
B-424	256S	3	9-82	E	No	Reactor Coolant Pump 2B
	262S	6	9-82	E	No	Protective Speed
	266S	6	9-82	E	No	Loose Parts Monitoring System
	267S	6	9-82	E	No	Sh 3
	268S	5	9-82	E	No	Pressurizer Press (Narrow Range)
	269S	6	9-82	E	No	Sh 3
	270S	10	9-82	E	No	Pressurizer Press (Wide Range)
	273S	9	9-82	E	No	Sh 4
	275S	6	9-82	E	No	Pressurizer Press (Wide Range)
	278S	2	9-82	E	No	Sh 5
	279S	2	9-82	E	No	Pressurizer Press
	294S	3	9-82	E	No	Sh 6
	295S	4	9-82	E	No	Pressurizer Press (Wide Range)
	300S	8	9-82	E	No	Sh 7
	301S	7	9-82	E	No	Pressurizer Level Sh 1
	302S	6	8-27-80	E	No	Pressurizer Level Sh 3
	325S	6	9-82	E	No	Subcooled Marg. Monitor Channel A
	327S	5	9-82	E	No	Subcooled Marg. Monitor Channel B
	337S	4	2-7-79	E	No	Pressurizer Aux Spray Valve ICH-E2505A
	338S	3	11-28-79	E	No	Pressurizer Aux Spray Valve ICH-E2505B
	340S	7	12-18-79	E	No	Letdown Stop V& ICH-FIS16A/B
	341S	8	1-17-80	E	No	Letdown Cont Isol Valve ICH-F250IA/B
	342S	4	2-26-79	E	No	Letdown Cont Isol Valve 2CH-FI51BA/B
	343S	4	9-82	E	No	RCP Bleedoff Cont Isol Valves 2CH-FIS12A/B & 2CH-FIS13A/B
	345S	6	9-92	E	No	Volume Control Tk Disch Valve
	346S	5	9-82	E	No	2CH-VI23A/B
	350S	6	9-82	E	No	Boric Acid Gravity Feed Valve 3CH-VI06A
	351S	4	5-16-79	E	No	CVCS System A Heat Tracing
	357S	5	9-82	E	No	Boric Acid Makeup Tk B Heater 2-1
	358S	6	9-92	E	No	Boric Acid Makeup Tk B Heater 2-2
					No	Boric Acid Gravity Feed Valve 3CH-VIO7B
					No	CVCS System B Heat Tracing
					No	Boric Acid Pump A
					No	Boric Acid Pump A Recirc Valve 3CH-FI70A
					No	Boric Acid Pump B
					No	Boric Acid Pump B Recirc Valve & 3CH-FI71B
					No	Reactor Makeup Stop Valve 3CH-FI17A/B
					No	Reactor Makeup Bypass Valve 3CH-VI12A/B

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 18 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) Control Wiring Diagrams - Safety Related (Cont'd)						
B-424	365S	5	9-82	E	No	Charging Pump A
	366S	8	9-82	E	No	Charging Pump A Seal Lube Pump
	370S	4	9-92	E	No	Charging Pump A/B
	371S	8	9-82	E	No	Charging Pump A/B Seal Lube Pump
	375S	4	9-82	E	No	Charging Pump B
	376S	8	9-82	E	No	Charging pump B Seal Lube Pump
	381S	8	9-82	E	No	Charging Line to loop 1A; Shutoff Valve ICH-E2503A
	382S	8	9-82	E	No	Charging Line to loop 2A; Shutoff Valve ICH-E2504B
	402S	4	9-82	E	No	Reactor Drain Tk Cont Isol Valves 2BM-FIOBA/B & 2BM-FIO9A/B
	490S	8	9-82	E	No	Refueling Water Tk Level Sh 1
	492S	5	11-19-80	E	No	Refueling Water Storage Pool Outlet Valve 2SI-L103A
	493S	7	9-82	E	No	SIS Sump Isol Valve 2SI-L101A
	495S	6	9-82	E	No	Refueling Water Storage Pool Outlet Valve 2SI-L104D
	496S	6	9-82	E	No	Cont Sump Isol Valve 2SI-L102B
	498S	6	9-82	E	No	Cont Isol from SI TK Drain To RWP Valve 2SI-F1561A/B
	500S	8	9-82	E	No	High Press Safety inj Pump A
	502S	4	9-82	E	No	High Press SI Header A Orifice Bypass Valve 2SI-VIS34
	503S	5	9-82	E	No	Reactor Coolant Loop I Hot Leg Flow Contr Valve 2SI-VI556
	504S	5	9-82	E	No	Reactor Coolant Loop I Hot Let Inj Isol Valve 251-VIS57
	507S	5	9-82	E	No	High Press Safety Inj Pump A/B
	509S	7	9-82	E	No	High Pressure Safety Inj Pump B
	511S	3	9-82	E	No	High Pressure SI Header B Orifice Bypass Valve 2SI-V811B
	512S	5	9-82	E	No	Reactor Coolant Loop 2 Hot Leg Flow Contr Valve 2SI-VI559
	513S	4	9-82	E	No	Reactor Coolant Loop 2 Hot Let Inj Isol Valve & 2SI-VI558
	516S	5	9-82	E	No	Safety Inj Pumps A Min Flow Isol Valve 2SI-V809A

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 19 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) Control Wiring Diagrams - Safety Related (Cont'd)						
B-424	517S	5	9-82	E	No	Safety Inj Pumps A Min Flow Isol Valve 2SI-VB10A
	518S	5	9-82	E	No	Safety Inj Pumps B Min Flow Isol Valve 2SI-V801B
	519S	6	9-82	E	No	Safety Inj Pumps B Min Flow Isol Valve 2SI-V802B
	520S	1	9-82	E	No	LPSI Pumps Min. Flow isolation Valves 2ST-EI587A and 2SI-EI588B
	521S	5	9-82	E	No	High Press SI Flow Cont Valve 2ST-VI550AI
	522S	5	9-82	E	No	High Press SI Flow Cont Valve 2SI-VIS46A2
	523S	5	9-82	E	No	High Press SI Flow Cont Valve 2SI-VI542A3
	524S	5	9-82	E	No	High Press SI Flow Cont Valve 2SI-VI548A4
	525S	6	9-82	E	No	High Press SI Flow Cont Valve 2SI-VIS4681
	526S	6	9-82	E	No	High Press SI Flow Cont Valve 2SI-VI540B2
	527S	5	9-82	E	No	High Press SI Flow Cont Valve 2SI-VI547B3
	528S	6	9-82	E	No	High Press SI Flow Cont Valve 2SI-VI544B4
	530S	4	9-2-80	E	No	Low Press Safety Inj Pump A Shutdown & Cooling Line A Bypass Valve 2SI-FM317A
	532S	3	3-9-79	E	No	Shutdown Cooling Flow Control Valve 2SI-FM318A
	533S	2	10-4-78	E	No	Low Press Safety Inj Pump B Shutdown Cooling Line B Bypass Valve SI-FM348B
	538S	2	10-4-78	E	No	Shutdown Cooling Flow Contr Valve SI-FM349B
	539S	4	9-82	E	No	Shutdown Line to RCS Loop I
	541S	7	9-82	E	No	Low Press SI Flow Contr Valve 2SI-VI549AI
	542S	7	9-82	E	No	Low Press SI Flow Contr Valve 2SI-VIS39BI
	543S	6	9-82	E	No	Low Press SI Flow Contr Valve 2SI-VI541A2
	544S	7	9-82	E	No	Low Press SI Flow Contr Valve 2SI-VI543B2
	545S	4	9-11-80	E	No	Nitrogen Cont Isol Valve 2NG-F605 & 2NG-F604
	548S	8	9-82	E	No	Shutdown Cooling Temp SI Tak IA Isol Valve & ISI-VSO5 TKIA
	552S	6	9-82	E	No	SI Tnk IA Nitrogen Contr Valve & Vent Valve
	553S	9	9-82	E	No	SI Tnk 1A Leakage Drain Valve & Fill Drain Valve
	554S	4	9-82	E	No	SI Tak IA Vent Valve
	555S	6	9-82	9	No	SI Tnk IB Isol Valve ISI-VI506 TKIB
	558S	6	9-92	E	No	

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 20 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams - Safety Related</u> (Cont'd)						
B-424	559S	6	9-82	E	No	SI Tnk 1B Nitrogen Contr Valve & Vent Va
	560S	4	9-82	E	No	SI Tak 1R Leakage Drain Valve & Fill Drain Valve
	561S	6	9-82	E	No	SI Tank 1B Vent Valve
	564S	7	9-82	E	No	SI Tnk 2A Isol Valve ISI-VIS07 TK2A
	565S	7	9-82	E	No	SI Tak 2A Nitrogen Cont Valve
	566S	4	9-82	E	No	SI Tnk 2A Leakage Drain Valve & Fill Drain Valve
	567S	6	9-82	E	No	SI Tnk 2A Vent Valve
	570S	7	9-82	E	No	SI Tnk 2B Isol Valve ISI-V1508 Tk2B
	571S	6	9-82	E	No	SI Tnk 2B Nitrogen Contr Valve & Vent Valve
	572S	4	9-82	E	No	SI Tnk 2B Leakage Drain Valve & Fill Drain Valve
	573S	7	9-82	E	No	SI Tnk 2B Vent Valve
	589S	5	9-82	E	No	Shutdown Cool Heat Exch Instr
	590S	10	9-82	E	No	RCS Loop #1 Shutdown Cool Isol Valve ISI-VI502
	591S	11	9-82	E	No	RCS Loop #1 Shutdown Cool Isol Valve ISI-VI501B
	592S	4	9-82	E	No	RCS Loop #1 Shutdown Cool Isol Valve 2SI-V326B
	593S	3	9-82	E	No	RCS Loop #1 Hot Leg Inj Drain Valve ISI-VI578
	594S	5	9-26-79	E	No	Hydraulic Pump Motor RCS Loop #1 SHDN Cool Isol Valve 1SI-VI502B
	595S	10	9-82	E	No	RCS Loop #2 Shutdown Cool 1801 Valve 1SI-VI504A
	596S	9	9-82	E	No	RCS Loop #2 Shutdown Cool Isol Valve 1SI-VI503A
	597S	3	2-21-79	E	No	RCS Loop #2 Shutdown Cool Isol Valve ISI-V327
	598S	3	9-82	E	No	RCS Loop #2 Hot Leg Inj Drain Valve 1SI-VI577
	599S	7	9-82	E	No	Hydraulic Pump Motor RCS Loop #2 SHDN Cool Isol Valve 1SI-VI503A
	604S	4	9-82	E	No	Containment Spray Riser Level Pump 'A'
	605S	6	9-82	E	No	Containment Spray Pump A

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 21 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams-Safety Related</u> (Cont'd)						
B-424	607S	4	9-82	E	No	Containment Spray Isolation Valve 2CS-F305A
	608S	9	9-82	E	No	Containment Spray Pump A Disch Press & Flow & Hisc Ann Inputs
	609S	5	9-82	E	No	Containment Spray Riser Level Pump 'B'
	610S	8	9-82	E	No	Containment Spray Pump B
	612S	5	9-82	E	No	Containment Spray Isolation Valve 2CS-306B
	613S	8	9-82	E	No	Containment Spray Pump B Disch Press & Flow & Misc Ann Inputs
	618S	1	9-82	E	No	Containment Pressure Instrumentation Isol. Valves
	620S	4	9-92	E	No	Containment Pressure Instrumentation SH 1
	621S	6	9-82	E	No	Containment Pressure Instrumentation SH 2
	623S	12	9-82	E	No	Containment Pressure & SIS Sump Temp & Level Instr SH 1
	624S	14	9-82	E	No	Containment Pressure & SIS Sump Temp & Level Instr SH 2
	625S	8	9-82	E	No	Containment Personnel Air Lock
	680S	4	9-82	E	No	Waste Gas Cont Isol Valves
	700S	4	9-82	E	No	Comp Cool Wtr Pumps Comon Circuits 2WM-FI57A/D & 2WM-FI58A/B
	701S	6	6-27-90	E	No	Comp Cool Suct Disch HDR Isol Valve 3CC-F13A/B, 3CC-FI09A/B
	702S	6	6-27-80	E	No	Comp Cool Suct Disch HDR Isol Valve 3CC-F14A/b, 3CC-FI10A/B
	703S	2	6-18-79	E	No	Comp Cool Suct Disch HDR Isol Valve 3CC-F15A/B, 3CC-FI11A/B
	704S	3	9-82	E	No	Comp Cool Suct Disch HDR Isol Valve 3CC-F16A/B, 3CC-FI12A/B
	705S	6	9-82	E	No	Comp Cool Wtr Pump A
	707S	7	9-82	E	No	Comp Cool Wtr Pump A/B
	709S	4	9-82	E	No	Comp Cool Wtr Pump B
	713S	10	9-82	E	No	Comp Cool Wtr System Instrumentation SH2
	714S	8	9-82	E	No	Comp Cool Wtr System Instrumentation SH3
	715S	5	1-8-80	E	No	Comp Cool Wtr System Instrumentation SH4
	716S	6	9-82	E	No	Comp Cool Wtr System Instrumentation SH5
	731S,	5	2-18-80	E	No	Dry Tower A Fan No. 1
	732S	5	2-18-80	E	No	Dry Tower A Fan No. 2
	733S	5	2-18-80	R	No	Dry Tower A Fan No. 3
	734S	5	2-18-80	E	No	Dry Tower A Fan No. 4
	735S	5	2-18-80	E	No	Dry Tower A Fan No. 5
	736S	6	2-18-80	E	No	Dry Tower A Fan No. 6
	737S	5	2-18-80	E	No	Dry Tower A Fan No. 7
	738S	5	2-18-80	E	No	Dry Tower A Fan No. 8
	739S	5	2-18-80	E	No	Dry Tower A Fan No. 9
	740S	6	2-18-80	E	No	Dry Tower A Fan No. 10

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 22 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) Control Wiring Diagrams-Safety Related (Cont'd)						
B-424	741S	5	2-18-80	E	No	Dry Tower A Fan No. 11
	742S	5	2-18-80	E	No	Dry Tower A Fan No. 12
	743S	5	2-18-80	E	No	Dry Tower A Fan No. 13
	744S	5	2-18-80	E	No	Dry Tower A Fan No. 14
	745S	5	2-18-80	E	No	Dry Tower A Fan No. 15
	749S	6	9-82	E	No	Dry Tower Isol Valve 3CC-B201A & Bypass Valve 3CC-F265A
	752S	5	9-82	E	No	Aux Comp Coolant Pump A
	753S	7	9-82	E	No	Aux Comp Coolant Pump Alarms & Computer Inputs
	761S	6	9-82	E	No	Wet Tower A Fan No. 1
	762S	4	9-82	E	No	Wet Tower A Fan No. 2
	763S	4	9-82	E	No	Wet Tower A Fan No. 3
	764S	4	9-82	E	No	Wet Tower A Fan No. 4
	765S	5	2-7-80	E	No	Wet Tower A Fan No. 5
	766S	4	9-82	E	No	Wet Tower A Fan No. 6
	767S	4	9-82	E	No	Wet Tower A Fan No. 7
	768S	7	9-82	E	No	Wet Tower A Fan No. 8
	770S	2	9-82	E	No	Cool Tower A Motor Space Heaters
	781S	4	2-18-80	E	No	Dry Tower A Fan No. 1
	782S	6	9-82	E	No	Dry Tower A Fan No. 2
	783S	5	9-82	E	No	Dry Tower A Fan No. 3
	754S	0		E	No	ACCW Pump A Disch. Line Isol. Valve 3CC-B288A
	784S	6	9-82	E	No	Dry Tower B Fan No. 4
	785S	5	9-82	E	No	Dry Tower B Fan No. 5
	786S	5	9-82	E	No	Dry Tower B Fan No. 6
	787S	5	9-82	E	No	Dry Tower B Fan No. 7
	788S	5	9-82	E	No	Dry Tower B Fan No. 8
	789S	4	2-18-80	E	No	Dry Tower B Fan No. 9
	790S	4	2-18-80	E	No	Dry Tower B Fan No. 10
	791S	4	2-18-80	E	No	Dry Tower B Fan No. 11
	792S	6	9-82	E	No	Dry Tower B Fan No. 12
	793S	4	2-18-80	E	No	Dry Tower B Fan No. 13
	794S	4	2-18-80	E	No	Dry Tower B Fan No. 14
	795S	7	2-18-80	E	No	Dry Tower B Fan No. 15
	799S	4	4-17-79	E	No	Dry Tower B Isol Valve 3CC-B203B & Bypass Valve 3CC-B262B
	802S	4	9-82	E	No	Auxiliary Component Cooling Water Pump B
	803S	6	9-82	E	No	Auxiliary Component Coolant Pump B Alarms and Computer Inputs
	811S	4	5-16-79	E	No	Wet Tower B Fan No. 1

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 23 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams-Safety Related</u> (Cont'd)						
B-424	812S	4	9-82	E	No	Wet Tower B Fan No. 2
	813S	4	9-82	E	No	Wet Tower B Fan No. 3
	814S	4	9-82	E	No	Wet Tower B Fan No. 4
	815S	5	9-82	E	No	Wet Tower B Fan No. 5
	816S	5	9-82	E	No	Wet Tower B Fan No. 6
	817S	5	9-82	E	No	Wet Tower B Fan No. 7
	818S	6	9-82	E	No	Wet Tower B Fan No. 8
	819S	3	1-3-79	E	No	Wet Tower Level Equalizing Valves Cross Tie Valves
	820S	2	9-82	E	No	Cool Tower Motor Space Materials
	821S	4	7-24-79	E	No	Chillers Coolant Selective Valves Common CKT System "A"
	822S	2	10-9-78	E	No	Chillers Coolant Selective Valves 3CC-F272B & 3CC-F274A
	823S	2	10-9-78	E	No	Chillers Coolant Selective Valves 3CC-F276A & 3CC-F278A
	824S	6	9-82	E	No	Containment Fan Coolers Cool Coils Instr System "A"
	826S	3	1-3-79	E	No	Chillers Coolant Selective Valves Comon CKT System "B"
	827S	3	5-10-79	E	No	Chillers Coolant Selective Valves 3CC-F273B & 3CC-F275B
	828S	3	5-11-79	E	No	Chillers Coolant Selective Valves 3CC-F277H & 3CC-F279B
	829S	7	9-82	E	No	Containment Fan Coolers Cool Coils Instr Syst "B"
	834S	5	6-27-80	E	No	Component Coolant Isol Valve 3CC-FI22A
	836S	6	9-82	E	No	Component Coolant Isol Valve 3CC-FI239
	838S	2	9-25-78	E	No	Component Coolant Isol Valve 3CC-133A/B
	840S	5	9-82	E	No	Fuel Pool Temp. Control Valve 3CC-FM 138AB CH A
	841S	4	9-82	E	No	Fuel Pool Temp. Control Valve 3CC-FM 138AB CH B
	804S	0		E	No	ACCW Pump B Disch. Line Isol. Valve 3CC-B289B
	843S	7	3-3-80	E	No	Component Coolant Surge Tank Level Contr Valve 7OW-LM601
	845S	6	9-27-80	E	No	CCW to RC Pumps Coolant Valve 2CC-FI46A/B
	846S	8	9-82	E	No	CCW from RC Pumps Isol Valve 2CC-FI47A/B & 2CC-F243A/B
	847S	3	5-11-79	E	No	Shutdown Heat Exch A Outlet Valve 3CC-FI30A
	848S	3	5-11-79	E	No	Shutdown Heat Exch B Outlet Valve 3CC-FI31B
	851s	8	9-82	E	No	Component Coolant Makeup Pump A
	852S	8	9-82	E	No	Component Coolant Makeup Pump 8
	854S	3	4-10-79	E	No	CCW Makeup to Return Header Valve 3CC-F240A
	855S	3	4-10-79	E	No	CCW Makeup to Return Header Valve 3CC-F241B
	859S	7	9-82	E	No	DG'S Stand Pipes Level Contr Valve 3CC-L640A & 3CC-L641B
	862S	9	9-82	E	No	Containment Sump Pump Isolation Valves
	908S	0	9-82	E	No	Toxic Chemical Detection System SH. 5

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)



→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 24 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams-Safety Related</u> (Cont'd)						
B-424	911S	7	9-82	E	No	Coolant Sampling Isol Valves 2SL-FI501A/B & 2SL- 1504A/B
	912S	6	9-82	E	No	Pressurized Surge Line Cont Isol Valve 2SL-FI502
	913S	7	9-82	E	No	PZRD STH Space Sample Cont Isol Valves 2SL-FIS03A/B & 2SL-FI506A/B
	922S	8	9-82	E	No	STH GEN 1 Sample Isol Valves 2SL-F601 & 2SL-F602
	923S	5	9-82	E	No	STH GEN 2 Sample Isol Valves 2SL-F603 & 2SLF604
	929S	4	8-27-80	E	No	STH Line Sample Isol Valves 2MS-F714 & 2MS-F715
	931S	3	9-82	E	No	Reactor Coolant System Vent Valves SH. 1
	932S	5	9-82	E	No	Reactor Coolant System Vent Valves SH. 2
	933S	3	9-82	E	No	Reactor Coolant System Vent Valves SH. 3
	934S	3	9-82	E	No	Reactor Coolant System Vent Valves SH. 4
	940S	1	9-82	E	No	SIS Sump Sampling Cont. Isol. Valve 2SI-E648
	951S	5	9-82	E	No	Hydrogen Analyzer System A Sh 1
	952S	8	9-82	E	No	Hydrogen Analyzer System A Sh 2
	953S	1	11-10-78	E	No	Hydrogen Analyzer System A Inlet Pump
	954S	1	11-10-78	E	No	Hydrogen Analyzer System A Outlet Pump
	955S	3	9-82	E	No	Hydrogen Analyzer System B Sh 1
	956S	6	9-82	E	No	Hydrogen Analyzer System B Sh 2
	957S	1	11-10-78	E	No	Hydrogen Analyzer System B Inlet Pump
	958S	2	5-11-79	E	No	Hydrogen Analyzer System B Outlet Pump
	960S	8	9-82	E	No	Hydrogen Recombiner System A
	962S	7	9-82	E	No	Hydrogen Recombiner System 8
	997S	5	8-27-80	E	No	Instrument Air Cont Isol Valve 21A-F601AB
←(DRN 01-758, R11-A)	1000S	7	9-10-79	E	No	Charging Pump A Cooler AH-18 (3A-SA)
	1001S	7	9-10-79	E	No	Charging Pump AB Cooler AH-22 (3A-SAB)
	1002S	6	9-10-79	E	No	Charging Pump B Cooler AH-18 (3B-SB)
	1003S	6	9-10-79	E	No	Charging Pump AB Cooler AH-22 (3B-SAB)
	1004S	7	9-82	E	No	Safeguard Pump Room A Cooler AH-21 (3-SAB)
	1005S	11	9-82	E	No	Safeguard Pump Room A Cooler AH-2 (3A-SA)
	1006S	9	9-82	E	No	Safeguard Pump Room A Cooler AH-2 (3A-SA)
	1007S	8	9-82	E	No	Safeguard pump Room A Cooler AH-2 (3B-SB)
	1008S	8	9-82	E	No	Safeguard Pump Room A Cooler AH-2 (3D-SB)

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 25 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams-Safety Related</u> (Cont'd)						
B-424	1010S	7	9-10-79	E	No	CCW Pump A
	1011S	7	9-82	E	No	Cooler AH-10 (3A-SA)
	1012S	7	9-12-79	E	No	CCW Heat Exch A
	1013S	7	9-12-79	E	No	Cooler AH-24 (3A-SA)
	1014S	6	9-10-79	E	No	CCW Pump AB Cooler AH-20 (3A-SAB)
						CCW Pump AB Cooler AH-20 (3B-SAB)
	1015S	7	8-25-80	E	No	CCW Pump B
						Cooler AH-10 (3B-SB)
	1017S	8	8-25-80	E	No	CCW Heat Exch B
	1018S	8	8-25-80	E	No	Cooler AH-24 (3B-SB)
	1020S	8	9-10-79	E	No	Shutdown Heat Exch A
	1021S	8	9-10-79	E	No	Cooler AH-3 (3A-SA)
	1026S	8	8-25-80	E	No	Shutdown Heat Exch B
	1027S	8	9-82	E	No	Cooler AH-3 (3B-SB)
	1031S	5	9-82	E	No	Emerg FWP A Cooler
	1032S	9	9-82	E	No	AH-17 (3A-SA)
						Emerg FWP A Cooler
						AH-17 (3B-SB)
→(DRN 01-758, R11-A)	1033S	5	9-82	E	No	Equipt Room Cooler
←(DRN 01-758, R11-A)	1034S	7	9-82	E	No	AH-26 (3A-SA)
	1035S	5	8-92	E	No	Equipt Room Cooler
	1036S	11	9-82	E	No	AH-26 (3B-SB)
	1037S	4	9-82	E	No	Control Atmos Release System
	1038S	7	9-82	E	No	Supply Fan S-3 (3A-SA)
	1040S	9	9-92	E	No	Control Atmos Release System
						Exhaust Fan E-18 (3A-SA)
						Control Atmos Release System
						Disch Valve 2KV-BI67A
						Control Atmos Release System Suct Valve-F253A
						Control Atmos Release System
						Supply Fan S-3 (3B-SB)
						Control Atmos Release System Exhaust Fan E-18 (3B-SB)
						Disch Valve 2HV-BI689
						Control Atmos Release System
						Disch Valve 2HV-BI68B
						Control Atmos Release System Shut Valve 2HV-F254B
						Diesel Gen A Room Vent System

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 26 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
(C) Control Wiring Diagrams-Safety Related (Cont'd)						
B-424	1041S	5	9-82	E	No	Diesel Gen A Room Exhaust Fan E-28 (3A-SA)
	1042S	7	9-3-80	E	No	Diesel Gen B Room Vent System
	1043S	5	9-82	E	No	Diesel Gen B Room Exhaust Fan E-28 (3B-SB)
	1045S	5	9-82	E	No	Water Chiller Compressor WC-1 (3A-SA)
	1046S	5	9-82	E	No	Water Chiller Compressor WC-1 (3A-SA) Oil Pump
	1047S	3	4-17-79	E	No	Water Chiller WC-1 (3A-SA) Pump Out Compressor
	1048S	6	9-82	E	No	Chilled Water Pump P-1 (3A-SA)
	1049S	9	9-82	E	No	Chilled Water Sys RCC Va & Exp Tnk Lev Cnt Va
	1050S	7	8-25-80	E	No	Chilled Water System A Alarm & Computer Inputs
	1051S	7	2-15-80	E	No	Chilled Water System A Instrumentation Sh 1
	1052S	6	9-82	E	No	Chilled Water System A Instrumentation Sh 2
	1055S	6	9-82	E	No	Water Chiller Compressor WC-1 (3B-SB)
	1056S	4	9-82	E	No	Water Chiller WC-1 (3B-SB) Oil Pump
	1057S	4	9-82	E	No	Water Chiller WC-1 (3B-SB) Pumpout Compressor
	1058S	7	9-26-79	E	No	Chilled Water Pump P-1 (3B-SB)
	1059S	8	9-82	E	No	Chilled Water Sys B Recirc Va & Exp Tank Level Contr Va
	1060S	6	9-82	E	No	Chilled Water Sys B Alarm & Computer Inputs
	1061S	5	9-14-79	E	No	Chilled Water Sys B Instrumentation Sh 1
	1062S	5	9-14-79	E	No	Chilled Water Sys 8 Instrumentation Sh 2
	1065S	6	9-82	E	No	Water Chiller Compressor WC-1 (3C-SAB)
	1066S	6	9-82	E	No	Water Chiller WC-1 (3C-SAB) Oil Pump
	1067S	4	9-82	E	No	Water Chiller WC-1 (3C-SAB) Pumpout Compressor
	1068S	8	9-82	E	No	Chilled Water Pump P-1 (3C-SAB)
	1069S	8	9-82	E	No	Chilled Water System AB Recirc Va & Exp Tank Level Contr Va
	1070S	7	9-82	E	No	Chilled Water System AB Alarm & Computer Inputs
	1071S	5	9-14-79	E	No	Chilled Water System AB Instrumentation Sh 1
	1072S	4	9-14-79	E	No	Chilled Water System AB Instrumentation Sh 2
	1073S	7	9-82	E	No	Chilled Water System Isolation Valves Sh 1
	1074S	6	9-82	E	No	Chilled Water System Isolation Valves Sh 2
	1075S	7	9-82	E	No	Swgr Area Air Handling Unit AH-25 (3A-SA)
	1076S	11	9-82	E	No	AH-25 (3A-SA) Electric Heating Coil EHC-36 (3A-SA)
	1077S	9	9-82	E	No	AH-25 (3A-SA) Chilled Water Contr Valve & Hisc
	1079S	5	9-82	E	No	Swgr Area Air Handling Unit AH-25 (3B-SB)
	1080S	10	9-82	E	No	AH-25 (3B-SB) Electric Heating Coil EHC-36 (3B-SB)
	1081S	9	9-82	E	No	AH-25 (3B-SB) Chilled Water Contr Valve & Misc

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 27 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams-Safety Related</u> , (Cont'd)						
B-424	1083S	6	9-82	E	No	Battery Room A Exhaust Fan E-29 (3A-SA)
	1084S	8	9-82	E	No	Battery Room A Exhaust Fan E-29 (3B-SB)
	1085S	8	9-82	E	No	Battery Room Fans Cooler E-52 (3A-SA)
	1086S	5	9-82	E	No	Battery Room AB Exhaust Fan E-31 (3A-SA)
	1087S	4	11-14-79	E	No	Battery Room AB Exhaust Fan E-31 (3B-SB)
	1088S	6	9-82	E	No	Battery Room Fan Cooler E-52 (3B-SB)
	1089S	4	5-7-79	E	No	Battery Room B Exhaust Fan E-30 (3B-SB)
	1090S	5	9-82	E	No	Battery Room Exhaust Fan E-30 (3B-SB)
	1092S	5	5-7-79	E	No	Computer Battery Room Exhaust Fan E-00 (3A-SA)
	1093S	5	11-28-79	E	No	Computer Battery Room Exhaust Fan E-00 (3B-SB)
	1099S	7	9-82	E	No	Annulus Negative Press Sys Sh 3
	1110S	3	6-18-79	E	No	CVAS Isolation Valves SH1
	1111S	2	6-18-79	E	No	CVAS Isolation Valves Sh2
	1113S	6	9-82	E	No	CVAS Exhaust Fan E-23 (3B-SA)
	1114S	8	9-82	E	No	CVAS Exhaust Fan E-23 (3B-SB)
	1115S	3	1-8-80	E	No	CVAS Electric Heating Coil EHC-48 (3A-SA)
	1116S	3	9-82	E	No	CVAS Electric Heating Coil EHC-48 (3A-SA)
	1117S	5	11-14-79	E	No	RAB HVAC Equip Room Supply Fan AH-13 (3A-SA)
	1119S	5	3-19-79	E	No	RAB HVAC Equip,Room Supply Fan AH-13 (3B-SB)
	1121S	5	11-14-79	E	No	RAB HVAC Equip Room Exhaust Fan E-41 (3A-SA)
	1122S	5	11-14-79	E	No	RAB HVAC Equip Room Exhaust Fan E-41
	1123S	7	9-82	E	No	RAB HVAC Equip Room Elec Htg Coil ECH-55 (3A)
	1124S	7	9-82	E	No	RAB HVAC Equip Room Elec Htg Coil EHC-55 (3B)
	1128S	10	9-82	E	No	Cont Purge Isol VA's Sh1,
	1129S	9	9-82	E	No	Cont Purge Isol VA's Sh2
	1130S	9	9-82	E	No	Cont Vacuum Relief VA 2HV-BI56A
	1131S	12	9-82	E	No	Cont Vacuum Relief VA 2HV-BI57B
	1132S	7	9-82	E	No	Cont Fan Cooler AH-1 (3A-SA)
	1133S	5	9-82	E	No	Cont Fan Cooler AH-1 (3C-SA)
	1134S	9	9-82	E	No	Cont Fan Cooler Syst A Valves
	1135S	6	9-82	E	No	Cont Fan Cooler AH-1 (3B-SB)
	1136S	5	9-82	E	No	Cont Fan Cooler AH-1 (3D-SB)
→(DRN 01-758, R11-A)						
	1137S	8	9-82	E	No	Containment Fan Coolers System B Valves
	1138S	8	9-82	E	No	Containment Fan Coolers Instrumentation

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 28 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams-Safety Related</u> , (Cont'd)						
B-424	1146S	5	9-92	E	No	Contr Room Emerg Filtr Unit A Intake and Return Air Dampers Comm Cont SH 1
	1147S	7	9-82	E	No	Contr Room Emerg Filtr Unit B Intake and Return Air Dampers Comm Cont SH 2
	1148S	8	9-82	E	NO	Contr Room Emerg Filtr Unit S-8 (3A-SA)
	1149S	11	9-82	E	No	S-8 (3A-SA) Electric Heating Coil EHC-49 (3A-SA)
	1150S	5	9-82	E	No	Contr Room Filtr Unit S-8 (3B-SD)
	1151S	10	9-82	E	No	S 8 (3B-SB) Electric Heating Coil EHC-49 (3B-SB)
	1152S	5	9-82	E	No	Control Rm Emerg Filtr Unit Intake Valve 3HV-B196A
	1153S	5	9-82	E	No	Control Rm Emerg Filtr Unit Intake Valve 3HV-B197A
	1154S	3	9-82	E	No	Control Rm Emerg Filtr Unit Intake Valve 3HV-B198A
	1155S	3	9-82	E	No	Control Rm Emerg Filtr Unit Intake Valve 3HV-B199A
	1156S	5	9-82	E	No	Control Rm Emerg Filtr Unit Intake Valve 3HV-B201A
	1157S	4	9-82	E	No	Control Rm Emerg Filtr Unit Intake Valve 3HV-B200B
	1158S	3	9-82	E	No	Control Rm Emerg Filtr Unit Intake Valve 3HV-B203A
	1159S	3	9-82	E	No	Control Rm Emerg Filtr Unit Intake Valve 3HV-B202B
	1160S	7	9-82	E	No	Control Room Toilet Exhaust Fan E-34 (3A-SA)
	1161S	8	9-82	E	No	Control Room Toilet Exhaust Fan E-34 (3B-SB)
	1162S	2	9-82	E	No	Control Room Area Norm & Purge Dampers D-45, D-46, D-68
	1164S	6	9-82	E	No	Contr Rm Confer Rm & Kitchen Exh Fan Disch Valves & Dampers
←(DRN 01-758, R11-A)	1165S	7	9-82	E	No	Contr Room Air Handling Unit AH-12 (3A-SA)
	1166S	8	9-82	E	No	AH-12 (3A-SA) Electric Heating Coil EHC-34 (3AS)
	1167S	6	9-82	E	No	Contr Room Air Handling Unit AH-12 (3B-SE)
	1168S	7	9-82	E	No	AH-12 (3B-SB) Electric Heating Coil EHC-34 (3B-SB)
	1232S	10	9-82	E	No	FHB Vent Sys Exhaust Fan E-21 (3A-SA)
	1233S	10	9-82	E	No	FHB Vent Sys Exhaust Fan E-21 (3B-SH)
	1234S	6	3-3-80	E	No	FHB Vent System Emerg Filter Unit E-35 (3A-SA)
	1235S	8	9-82	E	No	E-35 (3A-SA) Electric Heating Coil

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 29 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams-Safety Related</u> , (Cont'd)						
B-424	1236S	5	2-5-80	E	No	FHB Vent Sys Emerg Filtr Unit E-35 (3B-SB)
	1237S	10	9-82	E	No	E-35 (3B-SR) Electric Heating Coil
	1238S	5	9-82	E	No	FHB Isolation Dampers SH1
	1239S	6	9-82	E	No	FHB Isolation Dampers SH2
	1242S	4	8-25-80	E	No	SWGR Area Air Holding Unit AH-30 (3A-SA)
	1243S	5	9-82	E	No	AH-30 (3A-SA) Chilled Wtr Contr VA & Hisc
	1245S	3	8-25-80	E	No	SWGR Area Air Handling Unit AH-30 (3B-SB)
	1246S	7	9-82	E	No	AH-30 (3B-SB) Chilled Wtr Contr VA & Misc
	1250S	7	9-82	E	No	Shield Bldg Vent Sys Fan E-17 (3A-SA)
	1252S	4	9-82	E	No	Shield Bldg Vent Sys Train Inlet 2HV-BI60A
	1253S	6	9-82	E	No	Shield Bldg Vent Sys Train Outlet 2HV-BI58A
	1254S	8	9-82	E	No	Electric Heater Coil EHC-51 (3A-SA)
	1255S	5	9-82	E	No	Shield Bldg. Vent Syst A Exch VA 2HV-BI622A
	1256S	2	9-82	E	No	Shield Bldg. Vent Syst A Recirc VA 2HV-BI64A
	1257S	8	9-82	E	No	Shield Bldg. Vent Syst A Aux Exch VA 2HV-BI73A
	1259S	7	9-82	E	No	Shield Bldg. Vent Sys Fan E-17 (3B-SB)
	1261S	4	9-82	E	No	Shield Bldg. Vent Sys Train Inlet 2HV-BI61B
	1262S	6	9-82	E	No	Shield Bldg Vent Sys Train Outlet 2HV-159B
	1263S	5	9-82	E	No	Electric Heating Coil EHC-51 (3B-SB)
	1264S	5	9-82	E	No	Shield Vent Syst B Exh VA 2HV-BI63B
	1265S	2	4-5-79	E	No	Shield Bldg Vent Syst B Recirc VA 2HV - B165B
	1266S	9	9-82	E	No	Shield Bldg Vent Syst B Aux Exh VA 2HV - B173B
	1268S	3	9-82	E	No	CVAS A Train Inlet VA 3HV B208A
	1269S	2	4-5-79	E	No	CVAS A Train Outlet VA 3HV B206A
	1270S	8	9-82	E	No	CVAS A Train Instrumentation
	1271S	4	9-82	E	No	CVAS B Train Inlet VA 3HV - B209B
	1272S	2	4-5-79	E	No	CVAS B Train Outlet 3HV - B209B
	1273S	9	9-82	E	No	CVAS Instrumentation
	1274S	5	9-82	E	No	CVAS A Train Min Flow Damper D-71 (SA)
	1275S	5	9-82	E	No	CVAS B Train Min Flow Damper D-71 (SB)
	1326S	2	11-17-78	E	No	Fire Wtr Cont Isol VA's 2FP-F127 & 2FP-F129
	1509S	2	9-82	E	No	Steam Gen. No. 1 Level (Wide Range) & EFW Flow
	1510S	6	9-82	E	No	SG No 1 Feedwater Isolation VA 2FV-V823A SH1
	1511S	8	9-82	E	No	SG No 1 Feedwater Isolation VA 2FV-823 SH2

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 30 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams-Safety Related</u> , (Cont'd)						
B-424	1525S	2	9-82	E	No	Steam Gen. No. 2 Level (Wide Range) & EFV Flow
	1526S	6	9-82	E	No	SG No 2 Feedwater Isolation VA 2FV-V824B SH1
	1527S	9	9-82	E	No	SG No 2 Feedwater Isolation VA 2FW-V824B SH2
	1530S	10	9-82	E	No	Condensate Storage Pool Inlet VA 6 CD-L362 & Instrumentation
	1531S	6	9-82	E	No	Emerg Feedwater Pump A
	1533S	6	9-82	E	No	Emerg Feedwater Pump B
	1535S	2	11-14-79	E	No	Emerg FWPT Stm Shutoff VA 2MS-V611A
	1536S	1	10-9-78	E	No	Emerg FWPT Sts Shutoff VA 2MS-V612B
	1540S	8	9-82	E	No	Emergency FWPT Stop Valve
	1541S	7	9-82	E	No	Emergency FWPT Gov Valve
	1546S	5	9-82	E	No	SG No 1 Emerg FV Isol VA's 2FW-V848A and 2FV-V852A
	1547S	4	9-82	E	No	SG No 1 Emerg FV Isol VA's 2FW-V8478 and 2FW-851B
	1548S	5	9-82	E	No	SG No 2 EMerg FV Isol VA's 2FW-849A
	1549S	5	9-82	E	No	SG No 2 Emerg FV Isol VA's 2FW-V850B and 2FW-V854B
	1550S	8	9-82	E	No	Emergency Feedwater Instrumentation
	1551S	1	9-82	E	No	SG No. 1 Emergency FW Contr. VA's 2FW-VB52A & V851B
	1552S	1	9-82	E	No	SG No. 2 Emergency FV Contr. VA's 2FW-V853A & V854B
	1560S	4	9-82	E	No	Steam Gen No. 1 Blowdown Cont Isol VA 2BD-F603 & 2RD-F604
	1565S	6	9-82	E	No	Steam Gen No. 2 Blowdown Cont Isol VA 2BD-F605 & 2BD-F606
	1643S	4	9-14-79	E	No	SG1 Main Sto Atmospheric Damp VA 2MS-PM629A
	1644S	3	9-82	E	No	STM Line 1 Upstream Normal Drain VA 2MS-V670
	1645S	4	9-82	E	No	STM Line 1 Upstream Emerg Drain VA 2MS-V671
	1646S	6	9-82	E	No	STM Line 1 Isolation 2MS-V602A SH1
	1647S	8	9-82	E	No	STM Line 1 Isolation 2MS-V602A SH2
	1658S	5	9-14-79	E	No	SG2 Main Stm Atmospheric Dump VA 2MS-PM 6308
	1659S	3	12-18-79	E	No	STM - Line 2 Upstream Normal Drain VA 2MS-V663
	1660S	5	9-82	E	No	STM - Line 2 Upstream Emerg Drain VA 2MS-V664
	1661S	6	9-82	E	No	STH - Line 2 Isolation VA 2MS-V604B SH1
	1662S	a	9-82	E	No	STM Line 2 Isolation VA 2MS-V604B SH2
	2090S	1	9-82	E	No	Class IE Va's N <sub>2</sub> Backup System No. 1
	2091S	1	9-82	E	No	Class IE Va's N <sub>2</sub> Backup System No. 2

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 31 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams-Safety Related</u> , (Cont'd)						
B-424	2092S	2	9-82	E	No	Class IE Va's N <sub>2</sub> Backup System No. 3
	2093S	3	9-82	E	No	Class IE Va's N <sub>2</sub> Backup System No. 4
	2094S	1	9-82	E	No	Class IE Va's N <sub>2</sub> Backup System No. 5
	2095S	1	9-82	E	No	Class IE Va's N <sub>2</sub> Backup System No. 6
	2096S	2	9-82	E	No	Class IE Va's N <sub>2</sub> Backup System No. 7
	2097S	3	9-82	E	No	Class IE Va's N <sub>2</sub> Backup System No. 8
	2098S	1	9-82	E	No	Class IE Va's N <sub>2</sub> Backup System Alarm
	2301S	3	9-82	E	No	Diesel Gen A Air Compressor A No. 1
	2302S	3	9-82	E	No	Diesel Gen A Air Compressor B No. 2
	2304S	6	9-82	E	No	Diesel Gen A Jacket Water Circulating Pump
	2305S	6	9-82	E	No	Diesel Gen A Jacket Water Heater
	2306S	3	9-11-80	E	No	Diesel Gen A Cooling Water Shut-off Valve
	2308S	5	9-82	E	No	Diesel Gen A Standby Fuel Oil Booster Pump
	2309S	6	9-82	E	No	Diesel Gen A Fuel Oil Transfer Pump
	2311S	5	9-82	E	No	Diesel Gen A Pre-Lube Oil Pump
	2312S	3	9-82	E	No	Diesel Gen A Standby Lube Oil Pump
	2313S	7	9-82	E	No	Diesel Gen A Lube Oil Heater
	2314S	3	9-92	E	No	Diesel Gen A Space Htr
	2315S	5	9-82	E	No	Diesel Gen A Generator Control Interface SH1
	2316S	3	10-8-80	E	No	Diesel Gen A Generator Control Interface SH2
	2317S	3	10-8-80	E	No	Diesel Gen A Generator Control Interface SH3
	2318S	5	9-82	E	No	Diesel Gen A Engine Control Interface SH1
	2319S	2	9-92	E	No	Diesel Gen A Engine Control Interface SH2
	2320S	2	9-82	E	No	Diesel Gen A Engine Control Interface SH3
	2321S	4	9-82	E	No	Diesel Gen A Engine Control Interface SH4
	2322S	0	9-20-77	E	No	Diesel Gen A Engine Control Interface SH5
	2323S	11	9-82	E	No	Diesel Gen A Engine Control Interface SH6
	2324S	4	9-82	E	No	Diesel Gen A Engine Control Interface SH7
	2326S	7	9-82	E	No	Diesel Gen B Computer Inputs SH2
	2327S	6	9-82	E	No	Diesel Generator A Breaker
	2328S	6	9-82	E	No	Diesel Generator A Comp Inputs SH3
	2332S	7	9-82	E	No	4.16 KV Bus 3A3 Tie to Bus 3A2-S
	2334S	7	9-82	E	No	4.16 KV Bus 3A3 Tie to Bus 3AB3-S
	2335S	7	9-82	E	No	4.16 KV Bus 3AB3-S Tie to Bus 3A3-S
	2336S	1	9-82	E	No	4.16 KV Bus 3A3 MTP Space Beaters
	2337S	7	9-82	E	No	4.16 KV Bus 3A3-S Undervoltage Relays Test
	2338S	3	9-82	E	No	4.16 KV Bus 3A3-1 Undervoltage Relays Test

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)



→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 32 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION		PREPARED BY	PROPRIETARY INFO.	TITLE
	NO.	NO.	DATE	BY		
(C) <u>Control Wiring Diagrams-Safety Related</u> , (Cont'd)						
B-424	2339S	5	9-82	E	No	480V Bus 3A31-S Undervoltage Relays Test
	2340S	4	9-82	E	No	480V Bus 3A31-S Undervoltage Relays Test
	2341S	4	9-82	E	No	Sequencer A SH1
	2342S	1	9-82	E	No	Sequencer A SH2
	2343S	1	8-27-80	E	No	Sequencer A SH3
	2346S	0	9-82	E	No	STA Service Transformer 3A32 Feeder Interlocks
	2347S	5	9-82	E	No	STA Service Transformer 3A31-S Feeder
	2348S	0	9-82	E	No	STA Service Transformer 3A32 Feeder
	2349S	5	9-82	E	No	STA Service Transformer 3A315S Feeder
	2351S	3	9-82	E	No	Diesel Gen B Air Compressor No. 1
	2352S	3	9-82	E	No	Diesel Gen B Air Compressor No. 2
	2354S	6	9-82	E	No	Diesel Gen B Jacket Water Circulating Pump
	2355S	6	9-82	E	No	Diesel Gen B Jacket Water Heater
	2356S	3	9-82	E	No	Diesel Gen B Cool Water Shutoff Valve
	2358S	5	9-82	E	No	Diesel Gen B Standby Fuel Oil Booster Pump
	2359S	6	9-82	E	No	Diesel Gen B Fuel Oil Transfer Pump
	2361S	5	9-82	E	No	Diesel Gen B Pre-Lube Oil Pump
	2362S	3	9-82	E	No	Diesel Gen B Standby Lube Oil Pump
	2363S	5	9-82	E	No	Diesel Gen B Lube Oil Heater
	2364S	2	9-82	E	No	Diesel Gen B Space Htr
	2365S	5	9-82	E	No	Diesel Gen B Generator Control Interface SH1
	2366S	4	10-27-80	E	No	Diesel Gen B Generator Control Interface SH2
	2367S	4	10-27-80	E	No	Diesel Gen B Generator Control Interface SH3
	2368S	6	9-82	E	No	Diesel Gen B Engine Control Interface SH1
	2369S	2	9-82	E	No	Diesel Gen B Engine Control Interface SH2
	2370S	2	9-82	E	No	Diesel Gen B Engine Control Interface SH3
	2371S	2	9-82	E	No	Diesel Gen B Engine Control Interface SH4
	2372S	0	9-20-77	E	No	Diesel Gen B Engine Control Interface SH5
	2373S	10	9-82	E	No	Diesel Gen B Engine Control Interface SH6
	2374S	4	9-82	E	No	Diesel Gen B Engine Control Interface SH7
	2375S	5	9-82	E	No	Diesel Gen B Computer Inputs SH1
	2376S	8	9-82	E	No	Diesel Gen B Computer Inputs SH2
	2377S	6	9-82	E	No	Diesel Generator B Breaker
	2378S	4	9-82	E	No	Diesel Generator B Computer Inputs SH3
	2382S	6	9-82	E	No	4.16 KV Bus 3B3-S Tie to Bus 3B2
	2384S	7	9-82	E	No	4.16 KV Bus 3B3-S Tie to Bus 3AB3-S

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 33 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams-Safety Related</u> , (Cont'd)						
B-424	2385S	8	9-82	E	No	4.16 KV Bus 3AB3-S Tie to Bus 3B3-S
	2386S	3	6-4-79	E	No	4.16 KB Bus 3B3-S Mtr Space Heaters
	2387S	5	9-82	E	No	4.16 KV Bus 3B3-S Undervoltage Relays
	2388S	3	9-82	E	No	4.16 KV Bus 3B3-S Undervoltage Relays
	2389S	9	9-82	E	No	480V Bus 3B31-S Undervoltage Relays
	2390S	5	9-82	E	No	480V Bus 3B31-S Undervoltage Relays Test
	2391S	4	9-82	E	No	Sequencer B SH1
	2392S	2	9-82	E	No	Sequencer B SH2
	2393S	3	8-27-80	E	No	Sequencer B SH3
	2396S	0	9-82	E	No	STA Service Transformer 3B22 Feeder Interlocks
	2397S	4	9-82	E	No	STA Service Transformer 3B31-S Feeder
	2398S	7	9-82	E	No	STA Service Transformer 3B32 Feeder
	2399S	5	9-82	E	No	STA Service Transformer 3B315-S Feeder
	2406S	1	7-27-78	E	No	4.16 KV Bus 3AB3-S Mtr Space Heaters
	2407S	2	9-82	E	No	4.16 KV Bus 3AB3-S Undervoltage Relays SH1
	2408S	5	6-4-79	E	No	4.16 KV Bus 3AB-S Undervoltage Relays SH2
	2409S	4	9-82	E	No	4.16 KV Bus 3AB3-S Undervoltage Relays Test
	2410S	1	3-9-79	E	No	490V Bus 3AB31-S Undervoltage Relays
	2411S	3	12-18-79	E	No	480V Bus 3AB31-S Undervoltage Relays Test
	2477S	4	9-82	E	No	480V Bus 3A31-S Tie To Bus 3AB31-S
	2479S	4	9-82	E	No	480V MCC 3A311-S Feeder
	2480S	4	9-82	E	No	480V MCC 3A312-S Feeder
	2481S	4	9-82	E	No	480V MCC 3A313-S Feeder
	2482S	4	9-82	E	No	480V MCC 3A314-S Feeder
	2483S	4	9-82	E	No	480V MCC 3A317-S Feeder
	2486S	4	9-82	E	No	480V MCC 3A312-S Bus Isolation Bkr
	2487S	3	9-82	E	No	480V MCC 3A313-S Bus Isolation Bkr
	2488S	3	9-82	E	No	480V MCC 3A314-S Bus Isolation Bkr
	2489S	3	9-82	E	No	Computer Primary Feeder
	2502S	5	9-82	E	No	480V Bus 3B31-S Tie To Bus 3AB31S
	2504S	4	9-82	E	No	480V MCC 3B311-S Feeder
	2505S	4	9-82	E	No	480V MCC 3B312-S Feeder
	2506S	4	9-82	E	No	480V MCC 3B313-S Feeder
	2507S	4	9-82	E	No	480V MCC 3B314-S Feeder
	2508S	4	9-82	E	No	480V MCC 3B317-S Feeder
	2511S	3	9-82	E	No	480V MCC 3B312-S Bus Isolation Bkr
	2512S	4	9-82	E	No	480V MCC 3B313-S Bus Isolation Bkr
	2513S	3	9-82	E	No	480V MCC 3B314-S Bus Isolation Bkr
	2525S	3	9-10-79	E	No	480V Bus 3AB31-S Undervoltage Relays SH2

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
Start of historical information.  
←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 34 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
(C) Control Wiring Diagrams-Safety Related (Cont'd)						
B-424	2527S	3	9-82	E	No	480V Bus 3AB31-S Tie to Bus 3A31-S
	2529S	3	9-82	E	No	480V Bus 3AB31-S Tie to Bus 3B31-S
	2531S	4	9-82	E	No	480V MCC 3AB311-S Feeder
	2532S	4	9-82	E	No	480V MCC 3AB312-S Feeder
	2533S	4	9-82	E	No	480V MCC 3AB313-S Feeder
	2534S	1	9-82	E	No	Computer Secondary Feeder
	2537S	1	9-3-80	E	No	480V MCC 3A315-S Bus Boltage
	2538S	1	9-82	E	No	208/120V AC PWR PNL 3B1-SA Feeder
	2541S	1	9-3-80	E	No	480V MCC 3B315-S Bus Voltage
	2542S	1	11-28-79	E	No	208/120V AC PWR PHL 3BI-SB Feeder
	2550S	3	11-28-79	E	No	Battery Charger 3A1-S Feeder
	2551S	3	11-28-79	E	No	Battery Charger 3A2-S Feeder
	2552S	3	11-28-79	E	No	Battery Charger 3B1-S Feeder
	2553S	3	11-28-79	E	No	Battery Charger 3B2-S Feeder
	2554S	3	9-82	E	No	Battery Charger 3AB-1S Feeder
	2555S	3	11-28-79	E	No	Battery Charger 3AB-2S Feeder
	2560S	3	9-82	E	No	125V DC Battery Charger 3A1-S and 3A2-S
	2561S	4	9-82	E	No	125V DC Battery Charger 3AB-S and 3AB2-S
	2562S	3	9-92	E	No	125V DC Battery Charger 3B1-S and 3B2-S
	2563S	13	9-82	E	No	125V DC Buses Instrumentation
	2564S	4	9-18-80	E	No	Static Uninterrupt Pwr Supp 3MA-S N Feeder
	2565S	4	9-18-80	E	No	Static uninterrupt Pwr Supp 3MB-S N Feeder
	2566S	4	9-18-80	E	No	Static Uninterrupt Pwr Supp 3MC-S N Feeder
	2567S	4	9-18-80	E	No	Static Uninterrupt Pwr Supp 3ND-S N Feeder
	2568S	3	11-28-79	E	No	Static Uninterrupt Pwr Supp 3A-S N Feeder
	2569S	3	11-28-79	E	No	Static Uninterrupt Pwr Supp 3B-S N Feeder
	2570S	7	9-82	E	No	Static Uninterrupt Pwr Supp 3MA-S and 3MB-S
	2571S	7	8-82	E	No	Static Uninterrupt Pwr Supp 3MC-S and 3MD-S
	2573S	4	8-6-80	E	No	Static Uninterrupt Pwr Supp 3A-S and 3B-S
	2575S	4	9-18-80	E	No	Static Uninterrupt Pwr Supp 3KA-S Alt Feeder
	2576S	4	9-18-90	E	No	Static Uninterrupt Pwr Supp 3MB-S Alt Feeder
	2577S	4	9-18-80	E	No	Static Uninterrupt Pwr Supp 3MC-S Alt Feeder
	2578S	4	9-18-80	E	No	Static Uninterrupt Pwr Supp 3ND-S Alt Feeder
	2583S	3	11-28-79	E	No	Static Uninterrupt Pwr Supp 3A-S Alt Feeder
	2584S	3	9-82	E	No	Static Uninterrupt Pwr Supp 3B-S Alt Feeder
	2596S	2	9-82	E	No	Radiation Monitoring Safety Loop "A"
	2597S	0	9-82	E	No	Radiation Monitors Safety Ch. A Annunciation
	2598S	2	9-82	E	No	Radiation Monitoring Safety Loop "B"
	2599S	0	9-82	E	No	Radiation Monitors Safety Ch. B Annunciation

→(DRN 04-1444, R13-B)  
End of historical information.  
←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 35 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams-Safety Related</u> , (Cont'd)						
B-424	2635S	0	9-82	E	No	Containment Atmosphere High Range Rad. Monitor A
	2636S	0	9-82	E	No	Containment Atmosphere High Range Rad. Monitor B
	2656S	3	9-82	E	No	Component Cooling Water Process Radiation Monitor "A"
	2657S	3	9-82	E	No	Component Cooling Water Process Radiation Monitor "B"
	2660S	4	9-82	E	No	Containment Purge Isolation "A" Area Radiation Monitor
	2661S	6	9-82	E	No	Containment Purge Isolation "B" Area Radiation Monitor
	2662S	4	9-82	E	No	Containment Purge Isolation "A" Area Radiation Monitor
	2663S	4	9-82	E	No	Containment Purge Isolation "B" Area Radiation Monitor
	2666S	2	9-82	E	No	Shield Building EL 46.0'-140° Post-LOCA Radiation Monitor "B"
	2667S	2	9-82	E	No	Shield Building EL 21.0'-230° Post-LOCA Radiation Monitor "B"
	2668S	2	9-82	E	No	Shield Building EL 21.0'-140° Post-LOCA Radiation Monitor "A"
	2669S	2	9-82	E	No	Shield Building EL 46.0'-240° Post-LOCA Radiation Monitor "A"
	2670S	3	9-82	E	No	Containment Atmosphere Airborne Radiation Monitor
	2671S	6	9-82	E	No	Plant Stack Airborne Radiation Monitor "A"
	2672S	6	9-82	E	No	Plant Stack Airborne Radiation Monitor "B"
	2673S	6	9-82	E	No	Containment Atmosphere Radiation Monitor Isol. Valves
	2675S	5	9-82	E	No	Control Room Isolation "A" Airborne Radiation Monitor
	2679S	1	10-23-80	E	No	Control Room Isolation "B" Airborne Radiation Monitor
	2681S	2	9-82	E	No	Control Room Isolation "B" Airborne Radiation Monitor
	2685S	3	9-82	E	No	F/H Building Isolation "A" Airborne Radiation Monitor
	2686S	2	9-82	E	No	F/H Building Isolation "A" Airborne Radiation Monitor
	2687S	2	9-82	E	No	F/H Building Isolation "B" Airborne Radiation Monitor
	2688S	3	9-82	E	No	F/H Building Isolation "B" Airborne Radiation Monitor
	2694S	3	9-82	E	No	RPS Trip Alarms SH. 1
	2695S	2	9-82	E	No	RPS Trip Alarms SH. 2
	2696S	2	9-82	E	No	RPS Trip Alarms SH. 3
	2697S	3	9-82	E	No	RPS Pretrip Alarms SH. 1
	2698S	3	9-82	E	No	RPS Pretrip Alarms SH. 2
	2699S	3	9-82	E	No	RPS Pretrip Alarms SH. 3
	2700S	2	8-1-79	E	No	CP-10 External Connections SH1
	2701S	3	8-1-79	E	No	CP-10 External Connections SH2
	2702S	3	8-1-79	E	No	CP-10 External Connections SH3
	2703S	3	8-1-79	E	No	CP-10 External Connections SH4
	2704S	2	9-7-79	E	No	CP-10 External Connections SH5
	2705S	3	9-82	E	No	CP-10 External Connections SH6
	2706S	2	9-7-79	E	No	CP-10 External Connections SH7
	2707S	2	9-7-79	E	No	CP-10 External Connections SH8
	2708S	4	9-82	E	No	CP-10 External Connections SH9

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 36 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION		PREPARED BY	PROPRIETARY INFO.	TITLE
	NO.	NO.	DATE	BY		
(C) <u>Control Wiring Diagrams-Safety Related</u> , (Cont'd)						
B-424	2709S	4	9-82	E	No	CP-10 External Connections SH10
	2710S	2	9-7-79	E	No	CP-10 External Connections SH11
	2711S	2	9-7-79	E	No	CP-10 External Connections SH12
	2712S	4	9-82	E	No	CP-10 External Connections SH13
	2713S	5	9-82	E	No	CP-10 External Connections SH14
	2714S	5	9-82	E	No	CP-10 External Connections SH15
	2716S	3	9-82	E	No	CP-10 External Connections SH17
	2717S	3	9-82	E	No	CP-10 External Connections SH18
	2718S	3	9-92	E	No	CP-10 External Connections SH19
	2719S	3	9-82	E	No	CP-10 External Connections SH20
	2720S	3	9-82	E	No	CP-10 External Connections SH21
	2721S	3	11-17-78	E	No	CP-10 External Connections SH22
	2722S	3	11-17-78	E	No	CP-10 External Connections SH23
	2723S	3	11-17-78	E	No	CP-10 External Connections SH24
	2724S	5	9-82	E	No	Plant Protection System Remote Control Module SH1
	2725S	3	9-7-79	E	No	Plant Protection System Remote Control Module SH2
	2726S	4	9-82	E	No	Plant Protection System Remote Control Module SH3
	2727S	3	9-7-79	E	No	Plant Protection System Remote Control Module SH4
	2934S	1	9-82	E	No	Annunciator Display Cabinets SA & SB
	2935S	6	9-82	E	No	Annunciator Logic Panel Safety Channel A and B
	2951S	0	9-82	E	No	Reactor Coolant Flow Monitor SH. 1
	2952S	0	9-82	E	No	Reactor Coolant Flow Monitor SH. 2
	2954S	0	9-82	E	No	Reactor Coolant Level Monitor No. 1 SH. 1
	2955S	0	9-82	E	No	Reactor Coolant Level Monitor No. 1 SH. 2
	2956S	0	9-82	E	No	Reactor Coolant Level Monitor No. 2 SH. 1
	2957S	0	9-82	E	No	Reactor Coolant Level Monitor No. 2 SH. 2
	2961S	0	9-82	E	No	QSPDS Miscellaneous Inputs SH. 1
	2962S	0	9-82	E	No	QSPDS Miscellaneous Inputs SH. 2
	2963S	0	9-82	E	No	QSPDS Miscellaneous Inputs SH. 3
	2964S	0	9-82	E	No	QSPDS Miscellaneous Inputs SH. 4
	2965S	0	9-82	E	No	QSPDS Miscellaneous Inputs SH. 5
	2966S	0	9-82	E	No	QSPDS Miscellaneous Inputs SH. 6
	2967S	0	9-82	E	No	QSPDS Miscellaneous Inputs SH. 7
	2968S	0	9-82	E	No	QSPDS Miscellaneous Inputs SH. 8
	2969S	0	9-82	E	No	QSPDS Miscellaneous Inputs SH. 9
	3001S	1	9-82	E	No	ESFAS Test Module Channel A SH. 1
	3002S	1	9-82	E	No	ESFAS Test Module Channel A SH. 2
	3003S	1	9-82	E	No	ESFAS Test Module Channel A SH. 3
	3004S	1	9-82	E	No	ESFAS Test Module Channel A SH. 4

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 37 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams-Safety Related</u> , (Cont'd)						
B-424	3005S	1	9-82	E	No	ESFAS Test Module Channel A SH. 5
	3006S	1	9-82	E	No	ESFAS Test Module Channel A SH. 6
	3007S	1	9-82	E	No	ESFAS Test Module Channel A SH. 7
	3008S	1	9-82	E	No	ESFAS Test Module Channel A SH. 8
	3009S	1	9-82	E	No	ESFAS Test Module Channel A SH. 9
	3010S	1	9-82	E	No	ESFAS Test Module Channel A SH. 10
	3011S	1	9-82	E	No	ESFAS Test Module Channel A SH. 11
	3012S	1	9-82	E	No	ESFAS Test Module Channel A sH. 12
	3013S	1	9-82	E	No	ESFAS Test Module Channel A SH. 13
	3014S	1	9-82	E	No	ESFAS Test Module Channel A SH. 14
	3015S	1	9-82	E	No	ESFAS Test Module Channel A SH. 15
	3016S	1	9-82	E	No	ESFAS Test Module Channel A SH. 16
	3017S	1	9-82	E	No	ESFAS Test Module Channel A SH. 17
	3018S	1	9-82	E	No	ESFAS Test Module Channel A SH. 18
	3019S	1	9-82	E	No	ESFAS Test Module Channel A SH. 19
	3031S	1	9-82	E	No	ESFAS Test Module Channel B SH. 1
	3032S	1	9-82	E	No	ESFAS Test Module Channel B SH. 2
	3033S	1	9-82	E	No	ESFAS Test Module Channel B SH. 3
	3034S	1	9-82	E	No	ESFAS Test Module Channel B SH. 4
	3035S	1	9-82	E	No	ESFAS Test Module Channel B SH. 5
	3036S	1	9-82	E	No	ESFAS Test Module Channel B SH. 6
	3037S	1	9-82	E	No	ESFAS Test Module Channel B SH. 7
	3038S	1	9-82	E	No	ESFAS Test Module Channel B SH. 8
	3039S	1	9-82	E	No	ESFAS Test Module Channel B SH. 9
	3040S	1	9-82	E	No	ESFAS Test Module Channel B SH. 10
	3041S	1	9-82	E	No	ESFAS Test Module Channel B SH. 11
	3042S	1	9-82	E	No	ESFAS Test Module Channel B SH. 12
	3043S	1	9-82	E	No	ESFAS Test Module Channel B SH. 13
	3044S	1	9-82	E	No	ESFAS Test Module Channel B SH. 14
	3045S	1	9-82	E	No	ESFAS Test Module Channel B SH. 15
	3046S	1	9-82	E	No	ESFAS Test Module Channel B SH. 16
	3047S	1	9-82	E	No	ESFAS Test Module Channel B SH. 17
	3048S	1	9-82	E	No	ESFAS Test Module Channel B SH. 18
	3049S	1	9-82	E	No	ESFAS Test Module Channel B SH. 19
(C) <u>Control Wiring Diagrams - Non-Safety Related</u>						
	117	5	9-82	E	No	Excure Neutron Flux Control Channel #1 and Startup Channel #1
	118	5	9-82	E	No	Excure Neutron Flux Control Channel #2 and Startup Channel #2

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 38 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams - Non-Safety Related</u> (Cont'd)						
	190	6	9-82	E	No	Control Board Mounted Nuclear Instrumentation H4
	192	3	9-82	E	No	Control Board Miscellaneous Instrumentation SH1
	274	8	9-82	E	No	Pressurizer Level SH2
	330	5	1-9-80	E	No	Boric Acid Batching Tank Heater
	990	6	9-82	E	No	Instrument Air Compressor A
	993	7	9-82	E	No	Instrument Air Compressor B Alarms & Computer Inputs
	995	7	9-82	E	No	Instrument Air Dryer
	755	0		E	No	ACCW Jockey Pump A
	805	0		E	No	ACCW Jockey Pump B
	1029	10	9-82	E	No	Reactor Cavity Cool Syst. Fan S-2(3B)
	1105	6	9-82	E	No	RAB Normal Exhaust Fan E-22(3A)
	1228	7	9-82	E	No	FHB Vent System Air Handling Unit AH-14(3)
	1230	7	9-82	E	No	FHB Vent System Exh. Fan E-20(3A)
	1231	7	9-82	E	No	FHB Vent System Exh. Fan E-20(3B)
	1249	4	9-82	E	No	Cable Vault Area Dampers
	1750	5	11-28-79	E	No	Turbine Trip SH 1
	1751	4	11-28-79	E	No	Turbine Trip SH 2
	1752	9	9-82	E	No	Turbine Trip SH 3
	1753	5	9-82	E	No	Turbine Trip SH 4
	1754	8	9-82	E	No	Turbine Trip SH 5
	1755	5	9-82	E	No	Turbine Trip SH 6
	1756	1	1-23-79	E	No	Auto Stop Reset & Vacuum Trip Latch
	1757	5	9-7-79	E	No	Turbine Trip Alarms & Computer Inputs SH1
	1758	11	9-82	E	No	Turbine Trip Alarms & Computer Inputs SH2
	2103	4	2-15-80	E	No	Excitation System Annunciation
	2151	7	9-82	E	No	Generator Metering Current SH1
	2152	2	9-10-79	E	No	Generator Metering Current SH2
	2155	3	3-28-80	E	No	Generator Potential Transf Circuits
	2156	3	4-5-79	E	No	Generator Metering Potential Circuits
	2161	3	3-28-80	E	No	Generator Diff. & Ground Relaying
	2165	1	7-5-78	E	No	Gen.-Main Transf. Diff. Relay SH1
	2166	1	7-5-78	E	No	Gen.-Main Transf. Diff. SH2
	2168	2	8-1-79	E	No	Main Transformer Gen. Breaker Diff. Relay
	2184	1	7-25-78	E	No	Main Transf. 3A Differential Relay
	2189	1	6-29-78	E	No	Main Transf. 3B Differential Relay
	2194	1	6-29-78	E	No	Unit Aux Transf. 3A Differential Relay
	2199	1	6-29-78	E	No	Unit Aux Transf. 3B Differential Relay
	2201	7	9-82	E	No	Generator Lockout Relay 86G1 Sheet 1
	2202	8	9-82	E	No	Generator Lockout Relay 86G1 Sheet 2

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 39 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams - Non-Safety Related</u> (Cont'd)						
	2203	8	9-82	E	No	Generator Lockout Relay 86G1 Sheet 3
	2205	8	9-82	E	No	Generator Lockout Relay 86G2 Sheet 1
	2206	4	9-10-79	E	No	Generator Lockout Relay 86G2 Sheet 2
	2207	6	9-82	E	No	Generator Lockout Relay 86G2 Sheet 3
	2209	6	9-82	E	No	Distance Lockout Relay
	2210	8	9-82	E	No	Synchronizing SH1
	2211	3	9-82	E	No	Synchronizing SH2
	2221	2	9-82	E	No	Generator Circuit Breaker 3A SH1
	2222	3	9-82	E	No	Generator Circuit Breaker 3A SH2
	2225	2	9-82	E	No	Generator Circuit Breaker 3B SH1
	2226	2	9-82	E	No	Generator Circuit Breaker 3B SH2
	2231	5	9-10-79	E	No	Aux. Transf. 3A to Bus 3A1 Breaker
	2233	9	9-82	E	No	Aux. Transf. 3A to Bus 3A2 Breaker
	2235	6	9-82	E	No	Aux. Transf. 3B to Bus 3B1 Breaker
	2237	6	8-18-80	E	No	Aux. Transf. 3B to Bus 3B2 Breaker
	2238	2	12-22-78	E	No	4 kV/7kV Transfer Failure Alarm
	2240	3	9-82	E	No	Standby Transf. 3A Disconnect SW
	2244	1	4-12-78	E	No	Standby Transf. 3A Diff Relays
	2245	6	9-82	E	No	Standby Transf. 3A Lockout Relay
	2246	10	9-82	E	No	Standby Transf. 3A to Bus 3A1 Breaker
	2248	12	9-82	E	No	Control Room North Wall Area Radiation Monitor
	2601	2	9-82	E	No	HVAC Floor EL 46.0' Radiation Monitor
	2602	2	9-82	E	No	Reactor Aux Bldg EL 21.0' Area Radiation Monitor
	2603	2	9-82	E	No	Reactor Aux Bldg EL-4.0' Area Radiation Monitor
	2604	2	9-82	E	No	Reactor Aux Bldg. EL-4.0' Area Radiation Monitor
	2605	2	9-82	E	No	Counting Room Area Radiation monitor
	2606	2	9-82	E	No	Sample Room Area Radiation Monitor
	2607	2	9-82	E	No	Boric Acid Preconcentrators Filter Area Radiation Monitor
	2608	2	9-82	E	No	Waste Filter Wall Area Radiation Monitor
	2609	2	9-82	E	No	Drumming Station Area Radiation Monitor
	2610	2	9-82	E	No	Charging Pumps Wall Area Radiation Monitor
	2611	2	9-82	E	No	Reactor Aux. Bldg. Elevator Shaft Area Radiation Monitor
→(DRN 01-758, R11-A)	2612	2	9-82	E	No	Radio Chemistry Lab Area Radiation Monitor
←(DRN 01-758, R11-A)	2613	2	9-82	E	No	Reactor Aux. Bldg Valve Gallery Area Radiation Monitor
	2614	2	9-82	E	No	Reactor Aux. Bldg. Filter Flush Area Radiation Monitor
	2615	2	9-82	E	No	Standby Transf. 3A to Bus 3A2 Breaker
	2250	4	9-82	E	No	Standby Transf. 3B Disconnect SW

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)



→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 40 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams - Non-Safety Related</u> (Cont'd)						
	2254	1	7-5-78	E	No	Standby Transf. 3B Diff Relays
	2255	7	9-82	E	No	Standby Transf. 3B Lockout Relay
	2256	9	9-82	E	No	Standby Transf. 3B to 3B1 Breaker
	2258	11	9-82	E	No	Standby Transf. 3B to Bus 3B2 Breaker
	2260	4	6-6-79	E	No	Main & Standby Transf 3A & 3B Ground Protection
	2325	7	9-82	E	No	Diesel Gen A Computer Inputs SH1
	2331	4	9-82	E	No	4.16 kV Bus 3A2 Tie to Bus 3A3-S
	2380	2	2-4-80	E	No	Diesel Gen B Local Annunciator Front View
	2381	6	9-82	E	No	4.16 kV Bus 3B2 Tie to Bus 3B3-S
	2590	3	9-82	E	No	Radiation Monitor NIS Loop "A"
	2592	2	9-82	E	No	Radiation Monitor NIS Loop "B"
	2594	3	9-82	E	No	Radiation Monitor N/S Loop "C"
	2600	2	9-82	E	No	RAB Waste Gas Coup Area Radiation Monitor
	2616	2	9-82	E	No	RAB EL-35.0' Area Radiation Monitor
	2617	2	9-82	E	No	RAB EL-4.0' Area Radiation Monitor
	2618	2	9-82	E	No	Decontamination Room Area Radiation Monitor
	2619	2	9-82	E	No	Gas Decay Tanks Area Radiation Monitor
	2625	2	9-82	E	No	Spent Fuel Storage Pool Area Radiation Monitor
	2626	2	9-82	E	No	New Fuel Vault Area Radiation Monitor
	2627	2	9-82	E	No	Fuel Pool Pumps Area Radiation Monitor
	2630	3	9-82	E	No	Refueling Machine Area Radiation Monitor
	2631	3	9-82	E	No	Containment Southwest Staircase Area Radiation Monitor
	2632	3	9-82	E	No	Containment Northeast Staircase Area Radiation Monitor
	2633	3	9-82	E	No	Personnel Lock Annulus Area Radiation Monitor
	2640	3	9-82	E	No	Fuel Handling Exhaust A Radiation Monitor
	2641	3	9-82	E	No	Fuel Handling Exhaust B Radiation Monitor
	2642	3	9-82	E	No	RAB Airborne Radiation Monitor A
	2643	3	9-82	E	No	RAB Airborne Radiation Monitor B
	2644	3	9-82	E	No	RAB Airborne Radiation Monitor C
	2645	3	9-82	E	No	RAB Airborne Radiation Monitor D
	2650	2	9-82	E	No	Condenser Vacuum Pumps Process Radiation Monitor
	2651	2	9-82	E	No	Dry Cooling Tower Sump #1 Process Radiation Monitor
	2652	2	9-82	E	No	Dry Cooling Tower Sump #2 Process Radiation Monitor
	2653	2	9-82	E	No	Reactor Bldg Sump Process Radiation Monitor
	2654	2	9-82	E	No	Industrial Waste Sump Process Radiation Monitor
	2655	2	9-82	E	No	Circulating Water Discharge Process Radiation Monitor
	2658	1	9-82	E	No	Component Cooling Water Process Radiation Monitor A/B
	2852	3	1-9-80	E	No	Computer Inputs SH.53

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 41 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
(C) <u>Control Wiring Diagrams - Non-Safety Related</u> (Cont'd)						
B-424	2922	1	9-82	E	No	Annunciator Display Cabinet A
	2923	2	9-82	E	No	Annunciator Display Cabinet B
	2924	2	9-82	E	No	Annunciator Display Cabinet C
	2925	2	9-82	E	No	Annunciator Display Cabinet D
	2926	3	9-82	E	No	Annunciator Display Cabinet E
	2927	2	9-82	E	No	Annunciator Display Cabinet F
	2928	2	9-82	E	No	Annunciator Display Cabinet G
	2929	1	9-82	E	No	Annunciator Display Cabinet H
	2930	1	9-82	E	No	Annunciator Display Cabinet K
	2931	2	9-82	E	No	Annunciator Display Cabinet L
	2932	2	9-82	E	No	Annunciator Display Cabinet M
	2933	2	9-82	E	No	Annunciator Display Cabinet N
G246	S01	7	4-82	E	No	Reactor Containment Building Sect. and Details
	S02	3	9-78	E	No	Reactor Containment Building Sect. and Details
	S03	1	9-78	E	No	Reactor Containment Building Sect. and Details
	S04	0	4-80	E	No	Reactor Containment Building Sect. and Details
G322	S01	7	12-78	E	No	Cable Vault and Elec. Equip Room Sect. and Details
	S02	7	11-79	E	No	Cable Vault and Elec. Equip Room Sect. and Details
	S03	4	12-78	E	No	Cable Vault and Elec. Equip Room Sect. and Details
	S04	4	12-78	E	No	Cable Vault and Elec. Equip Room Sect. and Details
	S05	2	05-80	E	No	Cable Vault and Elec. Equip Room Sect. and Details
	S06	2	12-79	E	No	Cable Vault and Elec. Equip Room Sect. and Details
	S07	2	12-79	E	No	Cable Vault and Elec. Equip Room Sect. and Details
	S08	3	05-80	E	No	Cable Vault and Elec. Equip Room Sect. and Details
→(DRN 01-758, R11-A)	S09	2	06-82	E	No	Cable Vault and Elec. Equip Room Sect. and Details
←(DRN 01-758, R11-A)	S10	0	04-80	E	No	Cable Vault and Elec. Equip Room Sect. and Details
G285		3	12-78	E	No	Main One Line Diagram
G286		3	7-12-78	E	No	Key Auxiliary One Line Diagram
G287		2	11-30-78	E	No	125V DC & 120V AC One Line Diagram

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
Start of historical information.  
←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 42 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION		PREPARED BY	PROPRIETARY INFO.	TITLE
	NO.	NO.	DATE	BY		
(C) <u>Control Wiring Diagrams - Non-Safety Related</u> (Cont'd)						
G310	S01	1	9-5-78	E	No	Reactor Containment Building EL-4 Conduit, Trays and Grounding
	S02	2	9-5-78	E	No	Reactor Containment Building EL-4 Conduit, Trays and Grounding
	S03	2	12-79	E	No	Reactor Containment Building EL-4 Conduit, Trays and Grounding
	S04	2	06-79	E	No	Reactor Containment Building EL-4 Conduit, Trays and Grounding
G311	S01	7	06-79	E	No	Reactor Containment Building EL+21 Conduit, Trays and Grounding
	S02	0	6-1-79	E	No	Reactor Containment Building EL+21 Conduit, Trays and Grounding
G312		6	6-26-79	E	No	Reactor Containment Building EL+4 Conduit Trays and Grounding
G313		7	6-79	E	No	Electrical Penetration Area-Elevation & Details
G314		7	10-80	E	No	Reactor Containment Building-Sections & Details Sh1
G315		5	9-8-78	E	No	Reactor Containment Building-Sections & Details SH2
B316	96 Sheets	4(a)	Open	E	No	Electrical Penetrations Details
G317	S01	8	9-20-78		No	Reactor Aux. Bldg. EL. +7.00 Conduit, Trays & Grounding SH1
G317	S02	10	05-82	E	No	Reactor Aux. Bldg. EL. +7.00 Conduit, Trays & Grounding SH2
G318		9	05-82	E	No	Control Room Arrangement, Conduit & Grounding
G319	S01	8	6-14-79	E	No	Cable Vault Conduit, Trays & Grounding SH1
G319	S02	8	6-14-79	E	No	Cable Vault Conduit, Trays & Grounding SH2
G320	S01	7	11-29-78	E	No	Electrical Equipment Room Arrangement - Grounding SH1
G320	S02	8	11-79	E	No	Electrical Equipment Room Arrangement - Grounding SH2
G321	S01	9	07-80	E	No	Electrical Equipment Room - Conduit & Trays SH1
G321	S02	9	05-81	E	No	Electrical Equipment Room - Conduit & Trays SH2
G322	S01	7	12-29-78	E	No	Cable Vault & Electrical Equipment Room Sections & Details - SH1
G322	S02	7	11-79	E	No	Cable Vault & Electrical Equipment Room Grounding SH2
G322	S03	4	12-29-78	E	No	Cable Vault & Electrical Equipment Room Section & Details SH3
G322	S04	4	12-29-78	E	No	Cable Vault & Electrical Equipment Room Section & Details SH4
G322	S05	2	05-80	E	No	Cable Vault & Electrical Equipment Room Section & Details SH5

Note: (a) Revision number is that of index.

→(DRN 04-1444, R13-B)  
End of historical information.  
←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

## TABLE 1.7-1 (Sheet 43 of 47)

Revision 13-B (01/05)

## DRAWING

DRAWING						
SHEET		REVISION		PREPARED	PROPRIETARY	
NO.	NO.	NO.	DATE	BY	INFO.	TITLE
(C) <u>Control Wiring Diagrams - Non-Safety Related</u> (Cont'd)						
→(DRN 01-758, R11-A)						
G322	S06	2	12-79	E	No	Cable Vault & Electrical Equipment Room Section & Details SH6
←(DRN 01-758, R11-A)						
G322	S07	2	12-79	E	No	Cable Vault & Electrical Equipment Room Section & Details SH7
G322	S08	3	12-79	E	No	Cable Vault & Electrical Equipment Room Section & Details SH8
G322	S09	1	10-9-78	E	No	
G240	S01	4	11-30-37	E	No	RAB EI +21 Conduit, Trays & Grounding SH1
G240	S02	5	6-14-79	E	No	RAB EI +21 Conduit, Trays & Grounding SH2
G241	S01	5	04-82	E	No	RAB EI +46 to +81 Conduit & Grounding SH1
G241	S02	3	10-4-78	E	No	RAB EI +46 to +81 Conduit & Grounding SH2
G242	S01	5	07-80	E	No	H&V Room EI +46 Conduit, Trays & Grounding SH1
G242	S02	5	04-82	E	No	H&V Room EI +46 Conduit, Trays & Grounding SH2
G324		7	12-19-78	E	No	Reactor Auxiliary Building EL+21 Conduit, Trays & Grounding SH2
G327		7	11-30-78	E	No	Reactor Auxiliary Building EL-4 Conduit, Trays & Grounding SH1
G328		7	11-30-78	E	No	Reactor Auxiliary Building EL-4 Conduit, Trays & Grounding SH2
G329		6	11-30-78	E	No	Reactor Auxiliary Building EL-4 Conduit, Trays & Grounding SH4
G330		8	05-80	E	No	Reactor Auxiliary Building EL-4 Conduit, Trays & Grounding SH3
G331		10	04-80	E	No	Electrical Penetration Area Conduit, Trays & Grounding SH3
G332		to	6-27-79	E	No	Electrical Penetration Area Conduit, Trays & Grounding SH2
G333		9	6-14-79	E	No	Reactor Auxiliary Building EL-35 Conduit, Trays & Grounding SH1
G334		9	11-79	E	No	Reactor Auxiliary Building EL-35 Conduit, Trays & Grounding SH2
G335	S01	9	6-26-79	E	No	Reactor Auxiliary Building EL-35 Conduit, Trays & Grounding SH3
G336		9	6-26-79	E	No	Reactor Auxiliary Building EL-35 Conduit, Trays & Grounding SH4
G337		8	12-28-79	E	No	Reactor Auxiliary Building Piping Penetration Area Conduit, Trays & Grounding SH1
G338		9	04-80	E	No	Reactor Auxiliary Building Piping Penetration Area Conduit, Trays & Grounding SH2
G339S01		5	6-15-77	E	No	Reactor Auxiliary Building Sections & Details SH1
G339S02		3	11-30-78	E	No	Reactor Auxiliary Building Sections & Details SH2
G342		8	6-14-79	E	No	Fuel Handling Building EL 1 & -35 Conduit, Trays & Grounding
G343		8	05-82	E	No	Fuel Handling Building EL+21 & 46 Conduit, Trays & Grounding
→(DRN 04-1444, R13-B)						
End of historical information.						
←(DRN 04-1444, R13-B)						

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 44 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
G344	S01	5	9-14-78	E	No	Electrical Equipment Room Switchgear, MCC & Panel Details - SH1
	S02	5	04-82	E	No	Electrical Equipment Room Switchgear, MCC & Panel Details - SH2
	S03	3	9-14-78	E	No	Electrical Equipment Room Switchgear, MCC & Panel Details - SH3
G373	S01	8	11-30-78	E	No	Cooling Tower Area - Conduit & Grounding-SH1
	S02	7	11-30-78	E	No	Cooling Tower Area - Conduit & Grounding-SH2
	S03	6	11-30-78			
	S04	0	06-81	E	No	Met Towers - Grdg., Ltg. & Details
G374		4	11-30-78	E	No	Cooling Tower Area - Sections & Details
G376	S01	5	3-15-78	E	No	Reactor Auxiliary Building Embedded Conduits Below EL(-35) SH1
	S02	4	9-30-77	E	No	Reactor Auxiliary Building Embedded Conduits Below EL(-35) SH2
	S03	4	9-30-77	E	No	Reactor Auxiliary Building Embedded Conduits Below EL(-35) SH3
	S04	5	3-15-78	E	No	Reactor Auxiliary Building Embedded Conduits Below EL(-35) SH4
G377	S01	3	09-77	E	No	Seismic Cable Supports Piping Penetration Area

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 45 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING & REVISION NUMBER				REVISION DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
EBASCO	OTHERS						
203	R3	B-9270-413-101	3	7/13/77	CE	No	MCBD Temp. Channel
204	3	B-9270-413-102	3	7/13/77	CE	No	MCBD Temp. Channel
207	3	B-9270-413-105	3	5/30/73	CE	No	MCBD Press. Pressure Channel
164	4	B-9270-413-107	3		CE	No	MCBD Press. Pressure Channel
166	3	B-9270-413-109 SH1	3	7/13/77	CE	No	MCBD Press. & Level Channel
170	4	B-9270-413-201	4	7/13/77	CE	No	MCBD CVCS Temp. Channel
174	3	B-9270-413-205	3	7/13/77	CE	No	MCHD CVCS Level Channel
175	2	B-9270-413-207	1		CE	No	MCBD CVCS Press. Channel
177	4	B-9270-413-209	3		CE	No	MCBD CVCS Press. Channel
179	3	B-9270-413-301	3	7/13/77	CE	No	MCBD CVCS SIS Press. & Level Chan-
180	4	B-9270-413-302	3		CE	No	MCBD CVCS SIS Press. & Level Chan-
181	3	B-9270-413-303	3	7/13/77	CE	No	MCBD CVCS SIS Press. & Level Chan-
182	4	B-9270-413-304	3	7/13/77	CE	No	MCBD CVCS SIS Press. & Level Chan-
	X	B-9270-413-304	4		CE	No	MCBD SIS Flow & Temp. Channel
184	4	B-9270-413-306	4	7/13/77	CE	No	MCBD SIS Press. & Temp. Chan.
200	4	B-9270-413-401	3	7/13/77	CE	No	MCBD Stim. Gen. Press & Level Chan.
201	4	B-9270-413-402	3	7/13/77	CE	No	MCBD Stim. Gen. Press & Level Chan.
718	2	B-9270-413-112 SH1	3	7/13/77	CE	No	MCBD Rcp Measurement Channel
719	2	SH2	1	7/13/77			
720	3	B-9270-413-113	2	4/17/76			
721	3	B-9270-413-114	3	7/13/77	CE	No	MCBD RCP Measurement Channel
751	2	B-9270-413-116	2	7/13/77	CE	No	MCBD Board Mounted Nuclear Instrumentation
		SH 1					
752	1	B-9270-413-116	1	4/17/76	CE	No	MCBD Board Mounted Nuclear Instrumentation
		SH 2					
→(DRN 01-758, R11-A)							
185	4	B-9270-413-308	3		CE	No	MCBD RWP Level Channel
←(DRN 01-758, R11-A)							
1635	1	D-ICE-411-581	2	5/20/75	CE	No	Excore Instr- Cabling Diag.
7460	0	E-9270-411-501	1	6/30/77	CE	No	PPS Functional Diagram SH.1
648	3	E-ICE411-501	1	4/6/76	CE	No	PPS Functional Diagram SH.2
649	3	E-ICE-411-501	6	7/21/75	CE	No	PPS Functional Diagram SH.3
8643	0	E-9270-411-503	1	10/7/77	CE	No	PPS Interface Logic Diagram
663	4	E-ICE-411-520	6	3/29/77	CE	No	PPS Cab. Assy. & Frt Panel 1/0 SH1
664	4	E-ICE-411-520	4	3/29/77	CE	No	PPS Cab. Assy. & Frt Panel 1/0 SH2
665	4	E-ICE-411-520	4	3/29/77	CE	No	PPS Cab. Assy. & Frt Panel 1/0 SH3
7464	0	E-9270-411-521	1	6/30/77	CE	No	PPS Rmt Control Module 1/0
	X	J-ICE-411-522	E1		CE	No	PPS Status - Frt Panel 1/0

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 46 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING & REVISION NUMBER				REVISION	PREPARED	PROPRIETARY	TITLE
EBASCO	OTHERS			DATE	BY	INFO.	
667	4	E-ICE-411-531	6	4/78	CE	No	PPS 2/4 Logic Matrix Sch SH1
668	4	E-ICE-411-531	6	4/78	CE	No	PPS 2/4 Logic Matrix Sch SH2
669	4	E-ICE-411-531	6	4/78	CE	No	PPS 2/4 Logic Matrix Sch SH3
670	4	E-ICE-411-531	6	4/78	CE	No	PPS 2/4 Logic Matrix Sch SH4
671	4	E-ICE-411-531	6	4/78	CE	No	PPS 2/4 Logic Matrix Sch SH5
672	4	E-ICE-411-531	6	4/78	CE	No	PPS 2/4 Logic Matrix Sch SH6
7461	0	E-9270-411-532	1	6/30/77	CE	No	PPS Testing Sys Sch
656	6	E-ICE-411-534	2	4/78	CE	No	PPS Trip Path Sch
659	5	E-ICE-411-550	4	4/78	CE	No	PPS Calib & Test Panel Sch
7462	0	E-9270-411-560	1	6/30/77	CE	No	PPS Bypass & Block Sch
652	3	E-ICE-411-562	4	8/6/75	CE	No	PPS Misc Sch
7459	0	E-9270-411-570	1	6/30/77	CE	No	PPS Annum Input Sch Sh 1
646	3	E-9270-411-570	4	7/22/75	CE	No	PPS Annum Input Sch Sh 2
955	4	E-9270-413-130	E2		CE	No	Reactor Trip Swgear Arrgmt
1870	1	E-ICE-411-501	3	8/1/75	CE	No	PPS Functional Diagram Sh 4
1871	2	D-ICE-411-504	3	12/9/76	CE	No	ESFAS
1875	2	E-ICE-411-537	4		CE	No	PPS Variable Setpoint Sch
734	2	E-ICE-411-561	3	7/29/74	CE	No	PPS Aux Logic Sch
1872	1	O-ICE-411-533	2	7/9/75	CE	No	PPS CPC Test Panel Sch
1873	1	O-ICE-411-533	1	7/9/75	CE	No	PPS CPC Test Panel Sch
2557	1	B-9270-416-002	1	12/19/76	CE	No	Swch. Development Sh 1-4
3075	1	B-9270-416-003	1	12/13/76	CE	No	Power Dist to Instr Cab
1972	1	B-9270-416-007	1	12/13/76	CE	No	Wide Range Press Press Channel
1977	1	B-9270-416-008	1	12/13/76	CE	No	Steam Gen. Press Chan
1976	2	B-9270-416-009	SH1 2		CE	No	Steam Gen. Level Chan
			SH2 1				
			SH3 1				
			SH4 1				
1967	2	B-9270-416-010	2		CE	No	
1978	2	B-9270-416-011	3	7/29/77	CE	No	RWT Level Chan
1968	1	B-9270-416-012	1	12/13/76	CE	No	RCP Protective Speed Chan
1969	2	B-9270-416-013	2		CE	No	Press Press Channel
1970	1	B-9270-416-014	1	12/13/76	CE	No	Shutdown Heat Exch. 1/0 Temp Chan
8537	0	E-9720-414-075	1	9/23/77	CE	No	S/D Cooling Temp Channel
653	2	E-9270-411-580	2		CE	No	CPS Sys Ext Cabling Diagram
654	6	E-9270-411-580	2		CE	No	PPS Cont Rm Cabling Diagram
1871	2	D-ICE-411-504	3		CE	No	PPS Cont Rm Cabling Diagram
7553	1	F12004/E30/3ASA	1		CE	No	ESFAS
6179	0	E-9270-413-021	0	3/31/77	CE	No	General Layout for E-30 (3A-SA)
							Steam Bypass Control System

→(DRN 04-1444, R13-B)  
 End of historical information.  
 ←(DRN 04-1444, R13-B)

→(DRN 02-85, R11-A; 04-1444, R13-B)  
Start of historical information.  
←(DRN 04-1444, R13-B)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 47 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

<u>DRAWING &amp; REVISION NUMBER</u>		REVISION DATE	PREPARED BY	PROPRIETARY INFO.	TITLE
EBASCO	OTHERS				
5061	103-524312 Open		SEL		Block Diagram
5059	142-100067 Open		SEL		System Layout - Core Protection System (5 Shts.)
5062	144-100555 Open		SEL		Interconnection Diagram - Core Protection Calculator System (2 Shts.)
5063	144-100556 Open		SEL		Cable Assembly - External Operators Module Signal (5 Shts.)
5064	149-100316	Open	SEL		Cable Assembly - External CRT Signal
5066	149-100317	Open	SEL		CPC "A" Analog Inputs (19 Shts.) CPC "B" Analog Inputs (20 ShLs.) CPC "C" Analog Inputs
5067	149-100318	Open	SEL		CPC "D" Analog Inputs (19 Shts.)
5068	149-100319	Open	SEL		CEAC "1" Analog Inputs (16 Shts.)
5069	149-100320	Open	SEL		CEAC "2" Analog Inputs
5070	149-100321	Open	SEL		

→(DRN 04-1444, R13-B)  
End of historical information.  
←(DRN 04-1444, R13-B)