

→(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						TITLE
NO.	SHEET NO.	REVISION NO.	DATE	PREPARED BY	PROPRIETARY INFO.	
(A) <u>Instrument Location Arrangement Drawings</u>						
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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 2 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET	REVISION		PREPARED	PROPRIETARY	TITLE
	NO.	NO.	DATE	BY	INFO.	
<u>(A) Instrument Location Arrangement Drawings (Cont'd)</u>						
LOU-5817)						
G-391) Dwg's for HVAC System 70% @ 9/77						
	1	3	11-81	E		Turbine Building, HVAC System, Instrumentation
	2	2	12-80	E	No	Turbine Building, HVAC System Instrumentation
	3	3	08-81	E	No	Reactor & Fuel Handling Bldg, HVAC Instrumentation
	4	4	01-82	E	No	Reactor Auxiliary Building, HVAC Instrumentation
	5	4	11-81	E	No	Reactor Auxiliary Building, HVAC Instrumentation
	6	3	11-80	E	No	Reactor Auxiliary Building, HVAC Instrumentation
	7	3	11-81	E	No	HVAC Instrumentation Location Arrangement
<u>(B) Instrument Schematics and Logic Diagrams - Safety Related</u>						
B-431	Cover	0	3-8-73	E	No	Instrument Schematics and Logic Diagrams
	A	1	1-18-80	E	No	Organization of Drawing
	B	6	4-7-80	E	No	Index
	c	6	4-7-80	E	No	Index
	D	4	4-7-80	E	No	Index
	E	6	4-7-80	E	No	Index
	F	1	4-7-80	E	No	Index
	0.1	0	9-30-71	E	No	Pipe, Valves & Instrument Symbols (Cover Sheet)
	0.2	4	12-19-79	E	No	Instrumentation - Symbols
	0.3	3	7-23-79	E	No	Instrumentation - Functions & Meanings or Identification Letters
	0.4	3	12-19-79	E	No	Line Designations
	0.5	3	1-18-80	E	No	Line System Description and Symbols (Abbreviations)
	0.6	4	1-18-80	E	No	Abbreviations (Continued)
	0.7	4	1-23-80	E	No	Valves Symbols
	0.8	3	12-19-79	E	No	Valves Symbols
	0.9	1	12-19-79	E	No	Pipe or Equipment Accessories Symbols
	0.10	2	12-19-79	E	No	Equipment Symbols
	0.11	1	12-19-79	E	No	Graphical Symbols for Logic Diagrams
	3AS	4	12-19-79	E	No	Containment Spray
	4AS	4	12-19-79	E	No	Containment Spray
	5AS	3	12-19-79	E	No	Containment Sump Instruments & Leak Detection
	65	3	12-19-79	E	No	Containment Pressure
	145	2	12-19-79	E	No	Main Steam Isolation Valve Steam Generator - 1
	155	2	12-19-79	E	No	Main Steam Isolation Valve Steam Generator - 2
	35ASI	1	12-19-79	E	No	Emergency Steam Generator Feedwater System
	35AS2	2	6-11-80	E	No	Emergency Steam Generator Feedwater System
	95AS	3	12-19-79	E	No	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)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 3 of 47)

Revision 13-B (01/05)

←(DRN 02-85, R11-A)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING

NO.	SHEET NO.	REVISION		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
<b>(B) Instrument Schematics and Logic Diagrams - Safety Related</b>						
	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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 4 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET	REVISION		PREPARED	PROPRIETARY	TITLE
	NO.	NO.	DATE	BY		
<u>(B) Instrument Schematics and Logic Diagrams - Safety Related</u>						
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)
	267S	2	12-14-79	E	No	Cont Rm Air Handling Unit AH-12 (3B-SB)
	268S	3	9-18-81	E	No	SH1eld Bldg Vent System E-17 (3A-SA)

→(DRN 01-758, R11-A)

←(DRN 01-758, R11-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 5 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION		PREPARED	PROPRIETARY INFO.	TITLE
		NO.	DATE	BY		
(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 Cir AH-1 (3C-SA) & (3A-SA)
	285S	0	8-29-78	E	No	Containment Fan Cir 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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

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		
<u>(B) Instrument Schematics and Logic Diagrams - Non-Safety Related</u>						
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	REVISION		PREPARED	PROPRIETARY	TITLE
	NO.	NO.	DATE	BY	INFO.	
<u>(B) Instrument Schematics and Logic Diagrams - Non-Safety Related</u>						
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	REVISION		PREPARED	PROPRIETARY	TITLE
	NO.	NO.	DATE	BY		
<u>(B) Instrument Schematics and Logic Diagrams - Non-Safety Related</u>						
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.	
<u>(C) Control Wiring Diagrams - Safety Related</u>						
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	9-82	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)

←(DRN 02-85, R11-A)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 11 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET	REVISION		PREPARED	PROPRIETARY	TITLE
	NO.	NO.	DATE	BY	INFO.	
<u>(C) Control Wiring Diagrams - Safety Related (Cont'd)</u>						
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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 12 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) <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	E	No	
	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

TABLE 1.7-1 (Sheet 13 of 47)

Revision 307 (07/13)

⬅(DRN 02-85, R11-A)

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	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
	120S	9	9-82	E	No	Incore Neutron Flux Det 93A-E20 & 93A-G13
	121S	8	9-82	E	No	Incore Neutron Flux Det 95A-A14 & 95A-C9
						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		PREPARED		PROPRIETARY INFO.	TITLE
		NO.	DATE	BY			
<u>(C) Control Wiring Diagrams - Safety Related (Cont'd)</u>							
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 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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 15 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING							
NO.	SHEET NO.	REVISION		PREPARED		PROPRIETARY INFO.	TITLE
		NO.	DATE	BY			
<u>(C) Control Wiring Diagrams - Safety Related (Cont'd)</u>							
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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 16 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET	REVISION		PREPARED	PROPRIETARY	TITLE
	NO.	NO.	DATE	BY		
(C) <u>Control Wiring Diagrams - Safety Related</u> (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 Reactor Coolant Pump 1A Protective Speed
	235S	14	9-82	E	No	Reactor Coolant Pump 1B Alarms and Computer Inputs Sh 2
	236S	3	9-82	E	No	Reactor Coolant Pump 1B Protective Speed
	245S	12	9-82	E	No	Reactor Coolant Pump 2A Alarms and Computer Inputs Sh 2
	246S	3	9-82	E	No	Reactor Coolant Pump 2A Protective Speed
	255S	14	9-82	E	No	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) <u>Control Wiring Diagrams - Safety Related</u> (Cont'd)						
B-424	256S	3	9-82	E	No	Reactor Coolant Pump 2B Protective Speed
	262S	6	9-82	E	No	Loose Parts Monitoring System Sh 3
	266S	6	9-82	E	No	Pressurizer Press (Narrow Range) Sh 3
	267S	6	9-82	E	No	Pressurizer Press (Wide Range) Sh 4
	268S	5	9-82	E	No	Pressurizer Press (Wide Range) Sh 5
	269S	6	9-82	E	No	Pressurizer Press Sh 6
	270S	10	9-82	E	No	Pressurizer Press (Wide Range) Sh 7
	273S	9	9-82	E	No	Pressurizer Level Sh 1
	275S	6	9-82	E	No	Pressurizer Level Sh 3
	278S	2	9-82	E	No	Subcooled Marg. Monitor Channel A
	279S	2	9-82	E	No	Subcooled Marg. Monitor Channel B
	294S	3	9-82	E	No	Pressurizer Aux Spray Valve ICH-E2505A
	295S	4	9-82	E	No	Pressurizer Aux Spray Valve ICH-E2505B
	300S	8	9-82	E	No	Letdown Stop V& ICH-FIS16A/B
	301S	7	9-82	E	No	Letdown Cont Isol Valve ICH-F25OIA/B
	302S	6	8-27-80	E	No	Letdown Cont Isol Valve 2CH-FI51BA/B
	325S	6	9-82	E	No	RCP Bleedoff Cont Isol Valves 2CH-FIS12A/B & 2CH-FIS13A/B
	327S	5	9-82	E	No	Volume Control Tk Disch Valve 2CH-VI23A/B
	337S	4	2-7-79	E	No	Boric Acid Gravity Feed Valve 3CH-VI06A
	338S	3	11-28-79	E	No	CVCS System A Heat Tracing
	340S	7	12-18-79	E	No	Boric Acid Makeup Tk B Heater 2-1
	341S	8	1-17-80	E	No	Boric Acid Makeup Tk B Heater 2-2
	342S	4	2-26-79	E	No	Boric Acid Gravity Feed Valve 3CH-VIO7B
	343S	4	9-82	E	No	CVCS System B Heat Tracing
	345S	6	9-92	E	No	Boric Acid Pump A
	346S	5	9-82	E	No	Boric Acid Pump A Recirc Valve 3CH-FI70A
	350S	6	9-82	E	No	Boric Acid Pump B
	351S	4	5-16-79	E	No	Boric Acid Pump B Recirc Valve & 3CH-FI71B
	357S	5	9-82	E	No	Reactor Makeup Stop Valve 3CH-FI17A/B
	358S	6	9-92	E	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		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
(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 1 Hot Leg Flow Contr Valve 2SI-VI556
	504S	5	9-82	E	No	Reactor Coolant Loop 1 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		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
(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 2SI-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-VI54681
	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
	532S	3	3-9-79	E	No	Shutdown & Cooling Line A Bypass Valve 2SI-FM317A
	533S	2	10-4-78	E	No	Shutdown Cooling Flow Control Valve 2SI-FM318A
	535S	4	9-2-80	E	No	Low Press Safety Inj Pump B
	537S	2	10-4-78	E	No	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
	552S	6	9-82	E	No	SI Tak IA Isol Valve & ISI-VSO5 TKIA
	553S	9	9-82	E	No	SI Tnk IA Nitrogen Contr Valve & Vent Valve
	554S	4	9-82	E	No	SI Tnk 1A Leakage Drain Valve & Fill Drain Valve
	555S	6	9-82	9	No	SI Tak IA Vent Valve
	558S	6	9-92	E	No	SI Tnk IB Isol Valve ISI-VI506 TKIB

→(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		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
(C) Control Wiring Diagrams - Safety Related (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)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 21 of 47)

Revision 13-B (01/05)

←(DRN 02-85, R11-A)

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	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, 3CCFIII A/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		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
(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	9-92	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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 23 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	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 70W-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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 24 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	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		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
(C) <u>Control Wiring Diagrams-Safety Related</u> (Cont'd)						
B-424	1010S	7	9-10-79	E	No	CCW Pump A Cooler AH-10 (3A-SA)
	1011S	7	9-82	E	No	CCW Heat Exch A Cooler AH-24 (3A-SA)
	1012S	7	9-12-79	E	No	CCW Pump AB Cooler AH-20 (3A-SAB)
	1013S	7	9-12-79	E	No	CCW Pump AB Cooler AH-20 (3B-SAB)
	1014S	6	9-10-79	E	No	CCW Pump B Cooler AH-10 (3B-SB)
	1015S	7	8-25-80	E	No	CCW Heat Exch B Cooler AH-24 (3B-SB)
	1017S	8	8-25-80	E	No	Shutdown Heat Exch A Cooler AH-3 (3A-SA)
	1018S	8	8-25-80	E	No	Shutdown Heat Exch B Cooler AH-3 (3B-SB)
	1020S	8	9-10-79	E	No	Emerg FWP A Cooler AH-17 (3A-SA)
	1021S	8	9-10-79	E	No	Emerg FWP A Cooler AH-17 (3B-SB)
	1026S	8	8-25-80	E	No	Equipt Room Cooler AH-26 (3A-SA)
	1027S	8	9-82	E	No	Equipt Room Cooler AH-26 (3B-SB)
	1031S	5	9-82	E	No	Control Atmos Release System Supply Fan S-3 (3A-SA)
	1032S	9	9-82	E	No	Control Atmos Release System Exhaust Fan E-18 (3A-SA)
→(DRN 01-758, R11-A)	1033S	5	9-82	E	No	Control Atmos Release System Disch Valve 2KV-BI67A
←(DRN 01-758, R11-A)	1034S	7	9-82	E	No	Control Atmos Release System Suct Valve-F253A
	1035S	5	8-92	E	No	Control Atmos Release System Supply Fan S-3 (3B-SB)
	1036S	11	9-82	E	No	Control Atmos Release System Exhaust Fan E-18 (3B-SB) Disch Valve 2HV-BI689
	1037S	4	9-82	E	No	Control Atmos Release System Disch Valve 2HV-BI68B
	1038S	7	9-82	E	No	Control Atmos Release System Shut Valve 2HV-F254B
	1040S	9	9-92	E	No	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)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 26 of 47)

Revision 13-B (01/05)

←(DRN 02-85, R11-A)

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 B 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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 27 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	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)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 28 of 47)

Revision 13-B (01/05)

←(DRN 02-85, R11-A)

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	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
	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 01-758, R11-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)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 29 of 47)

Revision 13-B (01/05)

←(DRN 02-85, R11-A)

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	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		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
(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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 31 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	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.	DATE			
(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		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
(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) <u>Control Wiring Diagrams-Safety Related</u> (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		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
(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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

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.	DATE			
(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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 37 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	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	REVISION		PREPARED	PROPRIETARY	TITLE
	NO.	NO.	DATE	BY	INFO.	
(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 Tranof 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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 39 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 - 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. Tranef. 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)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 40 of 47)

Revision 13-B (01/05)

←(DRN 02-85, R11-A)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
(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		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
(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
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
←(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.	DATE			
(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; 04-1444, R13-B)  
 Start of historical information.  
 ←(DRN 04-1444, R13-B)

WSES-FSAR-UNIT 3

TABLE 1.7-1 (Sheet 43 of 47)

Revision 13-B (01/05)

←(DRN 02-85, R11-A)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING						
NO.	SHEET NO.	REVISION		PREPARED BY	PROPRIETARY INFO.	TITLE
		NO.	DATE			
(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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 45 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING & REVISION NUMBER				REVISION	PREPARED	PROPRIETARY	TITLE
EBASCO	OTHERS			DATE	BY	INFO.	
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 Stm. Gen. Press & Level Chan.
201	4	B-9270-413-402	3	7/13/77	CE	No	MCBD Stm. 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)

WSES-FSAR-UNIT 3

←(DRN 02-85, R11-A)

TABLE 1.7-1 (Sheet 46 of 47)

Revision 13-B (01/05)

ELECTRICAL, INSTRUMENTATION AND CONTROL DRAWINGS

DRAWING & REVISION NUMBER		REVISION DATE	PREPARED BY	PROPRIETARY INFO.	TITLE	
EBASCO	OTHERS					
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 Annun Input Sch Sh 1
646	3 E-9270-411-570	4	7/22/75	CE	No	PPS Annun 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 0-ICE-411-533	2	7/9/75	CE	No	PPS CPC Test Panel Sch
1873	1 0-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		CE	No	Steam Gen. Level Chan
		SH2				
		SH3				
		SH4				
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-9270-414-075	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

DRAWING & REVISION NUMBER		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.)
5067	149-100318	Open	SEL		CPC "B" Analog Inputs (20 ShLs.)
5068	149-100319	Open	SEL		CPC "C" Analog Inputs
5069	149-100320	Open	SEL		CPC "D" Analog Inputs (19 Shts.)
5070	149-100321	Open	SEL		CEAC "1" Analog Inputs (16 Shts.)
					CEAC "2" Analog Inputs

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