

Central files

50-331

Iowa Electric Light and Power Company

March 4, 1980
LDR-80-71

LARRY D. ROOT
ASSISTANT VICE PRESIDENT
NUCLEAR GENERATION

Mr. James G. Keppler, Director
Office of Inspection and Enforcement
Region III
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Dear Mr. Keppler:

The enclosure to this letter is our partial response to Item 1 of IE Bulletin No. 79-01B. It provides a "master list" of all Engineered Safety Feature Systems with their components which are required to function under postulated accident conditions. As allowed by your February 8, 1980 meeting, it is intended that the remainder of the information required by the bulletin will be provided within the 90 day response period. Some of the information presented in this enclosure may be supplemented or deleted depending upon results of the remainder of our analysis.

This application consisting of the foregoing letter and enclosures hereto, is true and accurate to the best of my knowledge and belief.

IOWA ELECTRIC LIGHT AND POWER COMPANY

By: Larry D. Root
Larry D. Root
Assistant Vice President
Nuclear Generation

LDR/RFS/mz
Attachment

cc: U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Division of Reactor Operations Inspections
Washington, D.C. 20555

- R. Salmon K. Meyer
 - D. Arnold D. Mineck
 - S. Tuthill J. Van Sickle
 - L. Liu T. Kevern (NRC)
- File: A-101a, BN 79-01B

MAR 6 1980

SUBSCRIBED AND SWORN TO BEFORE ME ON THIS 4 day of March, 19 80. As 2
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Linda R. Bales
Notary Public In and For The
State of Iowa

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MASTER LIST

ALL ENGINEERED SAFETY FEATURE SYSTEMS REQUIRED
TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS
(IN ACCORDANCE WITH IE BULLETIN 7901B)

DUANE ARNOLD ENERGY CENTER

MASTER LIST
OF
ALL ENGINEERED SAFETY FEATURES SYSTEMS
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS
(IN ACCORDANCE WITH IE BULLETIN 79-01B)

The applicable systems are listed below.

1. Deleted
2. Control Rod Drive System
3. Primary Containment Isolation and Nuclear Steam Supply Shutoff System
4. Deleted
5. Main Steam Line Isolation Valve Leakage Control
6. High-Pressure Coolant Injection System
7. Automatic Depressurization System
8. Core Spray System
9. Residual Heat Removal System
10. Standby Gas Treatment System
11. Standby AC Power Supply
12. DC Power Supply
13. Residual Heat Removal Service Water System
14. Emergency Service Water System
15. Main Steam Line Radiation Monitoring System
16. Reactor Protection System
17. Reactor Core Isolation Cooling System(Alternative use only)
18. Engineered Safeguard Rooms Heating and Ventilating System
19. Control Building Heating and Ventilating System
20. Standby Diesel Generator Room Ventilation System

21. Emergency Service Water Pump Room Heating and Ventilating System
22. Intake Structure Heating and Ventilating System
23. Radiation Monitoring System
24. River Intake System
25. Electrical and Control Panels
26. Pumphouse Drain Sump
27. Leak Detection Systems
28. Deleted
29. Containment Atmosphere Control
30. Deleted
31. Main Feedwater (Alternative Use Only)
32. Ancillary Components

MASTER LIST
CLASS 1E ELECTRICAL EQUIPMENT
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
 REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Control Rod Drive System

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
SV-1840A,B	Solenoid valves		X
SV-1804A,B	Solenoid valves		X
SV-1855	Solenoid valve (89 valves)	X	
SV-1856	Solenoid valve (89 valves)	X	
SV-1854	Solenoid valve (89 valves)	X	
SV-1853	Solenoid valve (89 valves)	X	
SV-1852	Solenoid valve (89 valves)	X	
SV-1851	Solenoid valve (89 valves)	X	
SV-1868	Solenoid valve (89 valves)		X
SV-1869	Solenoid valve (89 valves)		X
ZS-1857	Position switch	X	
LS-1861A through E	Level switch		X
E/S-1814	Power supply for FT-1814		X
HIC-1834A,B	Flow control station		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
 REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Primary Containment Isolation/Nuclear Steam Supply
 Shutoff System

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
MO-4423	Gate valve (motor-operated)	X	
MO-4424	Gate valve (motor-operated)		X
MO-4441	Stop check valve (motor-operated)	X	
MO-2740	Globe valve (motor-operated)		X
MO-4629	Gate valve (motor-operated)		X
MO-4630	Gate valve (motor-operated)		X
SV-3728	Solenoid valve		X
ZS-3728	Position switch		X
SV-3729	Solenoid valve		X
ZS-3729	Position switch		X
SV-3704	Solenoid valve		X
ZS-3704	Position switch		X
SV-3705	Solenoid valve		X
ZS-3705	Position switch		X
MO-4841B	Gate valve (motor-operated)		X
MO-4841A	Gate valve (motor-operated)		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
SV-4327A,B,C, D,F,G,H	Solenoid valve	X	
SV-4503	Solenoid valve		X
SV-4505	Solenoid valve		X
SV-4507	Solenoid valve		X
SV-4511	Solenoid valve		X
SV-4513	Solenoid valve		X
SV-4517	Solenoid valve		X
SV-4504	Solenoid valve		X
SV-4508	Solenoid valve		X
SV-4512	Solenoid valve		X
SV-4514	Solenoid valve		X
SV-4516	Solenoid valve		X
SV-4510A,B	Solenoid valve		X
SV-4518	Solenoid valve		X
SV-4519	Solenoid valve		X
SV-4528	Solenoid valve		X
SV-4584	Solenoid valve		X
SV-4585	Solenoid valve		X
SV-4590	Solenoid valve		X
SV-4591	Solenoid valve		X
SV-4639	Solenoid valve	X	
ZS-4639	Position switch	X	
SV-4640	Solenoid valve		X
ZS-4640	Position switch		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
SV-5718A,B	Solenoid valve		X
ZS-5718A,B	Position switch		X
SV-5704A,B	Solenoid valve		X
ZS-5704A,B	Position switch		X
SV-5703A,B	Solenoid valve		X
ZS-5703A,B	Position switch		X
SV-5719A,B	Solenoid valve		X
ZS-5719A,B	Position switch		X
SV-4607	Solenoid valve		X
SV-4608	Solenoid valve		X
SV-4611	Solenoid valve		X
SV-4512	Solenoid valve		X
SV-4637	Solenoid valve		X
SV-4638	Solenoid valve		X
SV-4641A	Solenoid valve		X
SV-4413A,B,C	Solenoid valve		X
ZS-4413	Position switch		X
SV-4416A,B,C	Solenoid valve		X
ZS-4416	Position switch		X
SV-4419A,B,C	Solenoid valve		X
ZS-4419	Position switch		X
SV-4421A,B,C	Solenoid valve		X
ZS-4421	Position switch		X
SV-4412A,B,C	Solenoid valve	X	
ZS-4412	Position switch	X	

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
SV-4415A,B,C	Solenoid valve	X	
ZS-4415	Position switch	X	
SV-4418A,B,C	Solenoid valve	X	
ZS-4418	Position switch	X	
SV-4420A,B,C	Solenoid valve	X	
ZS-4420	Position switch	X	
SV-4641B through SV-4644A	Solenoid valves		X
SV-4644B	Solenoid valve		X
SV-4663 through SV-4682	Solenoid valves		X
LS-MO-2403, LS-MO-2404	Valve limit switch		X
LS-MO-2202	Valve limit switch		X
TE-2446A,B	Temperature sensor		X
TE-2447A,B	Temperature sensor		X
TE-2451A,B	Temperature sensor		X
TE-2522A,B, C,D	Temperature sensor		X
TE-2523A,B C,D	Temperature sensor		X
TE-2526A,B, C,D	Temperature sensor		X
TS-4443A,B,C, D	Temperature switch		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
TS-4444A,B,C, D	Temperature switch		X
TS-4445A,B,C, D	Temperature switch		X
TS-4446A,B,C, D	Temperature switch		X
RE-4448A,B,C, D	Radiation detector		X
TE-2262A,B	Temperature sensor		X
TE-2263A,B	Temperature sensor		X
TE-2264A,B	Temperature sensor		X
RE-7606A,B	Radiation sensor		X
RE-4131A,B	Radiation sensor		X
PS-1096A,B, C,D	Pressure switch		X
PS-1014, PS-1015	Pressure switch		X
PS-1016, PS-1017	Pressure switch		X
PS-4346	Pressure switch		X
SV-4428	Solenoid valve		X
SV-4429	Solenoid valve		X
TE-4443A,B, C,D	Temperature element		X
TE-4445A,B C,D	Temperature element		X
TE-4444A,B, C,D	Temperature element		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
TE-4446A,B, C,D	Temperature element		X
TE-4477A,B	Temperature element		X
TE-4479A,B	Temperature element		X
TE-4478A,B	Temperature element		X
TE-4480A,B	Temperature element		X
TIS-4443	Temperature indi- cator switch		X
TIS-4444	Temperature indi- cator switch		X
TIS-4445	Temperature indi- cator switch		X
TIS-4446	Temperature indi- cator switch		X
MO-4601	Gate valve (motor-operated)		X
MO-4602	Gate valve (motor-operated)		X
MO-4627	Gate valve (motor-operated)		X
MO-4628	Gate valve (motor-operated)		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Main Steam Line Isolation Valve Leakage Control

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
FM-8408A,B, D,C	Flowmeters		X
MO-8401A,B, C,D	Gate valves (motor-operated)		X
MO-8402A,B, C,D	Gate valve (motor-operated)		X
MO-8403A,B, C,D	Gate valve (motor-operated)		X
IM-(IK-25A,B)	Blower (motor- operated)		X
IS-122A,B,C,D	Heater		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
 REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: High-Pressure Coolant Injection (HPCI) System

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
1P-218	HPCI turbine main auxiliary pump motor 6E		X
1P-219	HPCI turbine con- densate pump		X
E41-K603	DC/ac inverter		X
MO-2290A,B	Motor-operated gate valve and position switches		X
MO-2247	Motor-operated gate valve		X
MO-2202	Motor-operated gate valve		X
MO-2298	Motor-operated gate valve and position switches		X
MO-2238	Motor-operated gate valve	X	
MO-2239	Motor-operated gate valve		X
MO-2321	Motor-operated gate valve		X
MO-2300	Motor-operated gate valve		X
MO-2318	Motor-operated gate valve		X
IP-233	Gland seal vacuum pump		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
MO-2312	Motor-operated gate valve		X
MO-2311	Motor-operated gate valve		X
MO-2315	Motor-operated gate valve		X
MO-2322	Motor-operated gate valve		X
SV-2259	Solenoid valve		X
SV-2219	Solenoid valve		X
PS-2324	Pressure switch		X
LS-2206	Level switch		X
LS-2319	Level switch		X
HS-2290A,B	Hand switches		X
MO-2316	Motor-operated gate valve		X
HS-2206	Hand switch		X
HS-2234	Hand switch		X
HS-2290A,B	Hand switch		X
SV-2206	Solenoid valve		X
ZS-2206	Position switch		X
SV-2211	Solenoid valve		X
ZS-2211	Position switch		X
SV-2212	Solenoid valve		X
ZS-2212	Position switch		X
SV-2219	Solenoid valve		X
SV-2234	Solenoid valve		X
ZS-2234	Position switch		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
SV-2235	Solenoid valve		X
ZS-2235	Position switch		X
SV-2313	Solenoid valve		X
ZS-2313A,B	Position switches		X
LS-MO-2321, LS-MO-2322	Limit switches		X
LS-I0211	Limit switch		X
LS-MO-2202	Limit switch		X
SE-2284	Turbine speed element		X
SV-2246A,B, C,D	Solenoid valves		X
	Turbine governor		X
PS-2281	Pressure switch		X
LS-2222A	Level switch		X
LS-2219	Level switch		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Automatic Depressurization System

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
KY-4405	Time delay		X
KY-4402	Time delay		X
KY-4406	Time delay		X
KY-4400	Time delay		X
SV-4400	Solenoid valve	X	
SV-4405	Solenoid valve	X	
SV-4402	Solenoid valve	X	
SV-4406	Solenoid valve	X	
SV-4401	Solenoid valve	X	
SV-4407	Solenoid valve	X	

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Core Spray System

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
1P-211A,B	Core spray pumps and motors		X
MO-2117	Gate valve (motor-operated)		X
MO-2115	Gate valve (motor-operated)		X
MO-2137	Gate valve (motor-operated)		X
MO-2135	Gate valve (motor-operated)		X
MO-2132	Globe valve (motor-operated)		X
MO-2112	Globe valve (motor-operated)		X
MO-2124	Gate valve (motor-operated)		X
MO-2146	Gate valve (motor-operated)		X
ES-2110	Power supply		X
ES-2130	Power supply		X
MO-2147	Gate valve (motor-operated)		X
MO-2120	Gate valve (motor-operated)		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
MO-2100	Gate valve (motor- operated)		X
MO-2104	Gate valve (motor- operated)		X
SV-2118	Solenoid valve	X	
SV-2138	Solenoid valve	X	
ZS-2118A,B	Position switch	X	
ZS-2131A,B	Position switch	X	
ZS-2142	Position switch	X	
ZS-2143	Position switch	X	

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
 REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Residual Heat Removal (RHR) System

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
1P-229A,B,C,D	RHR pump drives		X
PDIS-1971A,B	Pressure differen- tial switch		
PS-2023A,B	Pressure switch		X
PS-2024A,B	Pressure switch		X
KY-1935	Relay		X
MO-1900	Gate valve (motor-operated)	X	
MO-1901	Globe valve (motor-operated)		X
MO-1902	Gate valve (motor-operated)		X
MO-1903	Globe valve (motor-operated)		X
PI-1962	Pressure transmitter		X
PI-2032	Pressure transmitter		X
MO-1904	Angle valve (motor-operated)		X
MO-1905	Gate valve (motor-operated)		X
MO-1908	Gate valve (motor-operated)	X	
MO-1909	Gate valve (motor-operated_		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
MO-1932	Gate valve (motor-operated)		X
MO-1933	Globe valve (motor-operated)		X
MO-1934	Globe valve (motor-operated)		X
MO-1989	Gate valve (motor-operated)		X
MO-1937	Gate valve (motor-operated)		X
MO-1936	Globe valve (motor-operated)		X
MO-1920	Gate valve (motor-operated)		X
MO-1921	Gate valve (motor-operated)		X
MO-1942	Gate valve (motor-operated)		X
SV-1942	Solenoid valve		X
KY-2009	Relay		X
MO-1913	Gate valve (motor-operated)		X
MO-1912	Gate valve (motor-operated)		X
MO-1943A,B	Motor-operated valve		X
MO-1947	Motor-operated valve and position transmitter		X
MO-1935	Gate valve (motor-operated)		X
MO-1940	Globe valve (motor-operated)		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
MO-1939	Gate valve (motor-operated)		X
MO-1941	Gate valve (motor-operated)		X
MO-1949B,A	Globe valve (motor-operated)		X
SV-1972	Solenoid valve		X
ZS-1972	Position switch		X
SV-1973	Solenoid valve		X
ZS-1973	Position switch		X
ZT-1949A,B	Position transmitter		X
ZI-1949A,B	Position indicator		X
SV-1963	Solenoid valve		X
SV-1964	Solenoid valve		X
SV-1966	Solenoid valve		X
E/S-1947	Power supply		X
KY-1940	Relay		X
MO-1967	Gate valve (motor-operated)		X
MO-1970	Gate valve (motor-operated)		X
MO-1989	Motor-operated valve		X
MO-2046	Motor-operated valve and position transmitter		X
MO-2000	Gate valve (motor-operated)		X
MO-2001	Globe valve (motor-operated)		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
MO-2003	Gate valve (motor-operated)		X
MO-2004	Angle valve (motor-operated)		X
MO-2005	Gate valve (motor-operated)		X
MO-2006	Globe valve (motor-operated)		X
MO-2007	Globe valve (motor-operated)		X
MO-2010	Gate valve (motor-operated)		X
MO-2069	Gate valve (motor-operated)		X
MO-2038	Gate valve (motor-operated)		X
MO-2036	Gate valve (motor-operated)		X
SV-2037	Solenoid valve		X
MO-2031	Gate valve (motor-operated)		X
MO-2030	Globe valve (motor-operated)		X
E/S-1962	Power supply		X
SV-1906	Solenoid valve	X	
ZS-1906A,B	Position switch	X	
MO-2029	Gate valve (motor-operated)		X
SV-2033	Solenoid valve		X
SV-2034	Solenoid valve		X
SV-2051	Solenoid valve		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
ZS-2051	Position switch		X
SV-2052	Solenoid valve		X
ZS-2052	Position switch		X
MO-2044A,B	Globe valve (motor-operated)		X
ZT-2044A,B	Position transmitter		X
ZI-2044A,B	Position indicator		X
MO-2009	Gate valve (motor-operated)		X
MO-2011	Gate valve (motor-operated)		X
MO-2012	Gate valve (motor-operated)		X
MO-2015	Gate valve (motor-operated)		X
MO-2016	Gate valve (motor-operated)		X
HS-1932A	Control switch		X
HS-1921A	Control switch		X
HS-1913A	Control switch		X
SV-2002	Solenoid valve	X	
ZS-2002	Position switch	X	
LS-MO-1908	Position switch	X	
LS-MO-1909	Position switch		X
ZS-2008	Position switch	X	
ZS-1907	Position switch	X	
KY-1966	Relay		X
HS-2005A	Control switch		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
HS-2010A	Control switch		X
HS-2012A	Control switch		X
HS-2015A	Control switch		X
KY-2080	Time delay		X
E/P-1963	Electrical-to- pneumatic converter		X
E/P-2033	Electrical-to- pneumatic converter		X
E/P-1964	Electrical-to- pneumatic converter		X
E/P-2034	Electrical-to- pneumatic converter		X
LS-MO-1912	Position switch		X
LS-MO-2011	Position switch		X
LS-MO-1913	Position switch		X
LS-MO-2012	Position switch		X
LS-MO-1920	Position switch		X
LS-MO-2016	Position switch		X
LS-MO-1921	Position switch		X
LS-MO-2015	Position switch		X
LS-MO-2044A,B	Position switch		X
LS-MO-1949A,B	Position switch		X
LS-MO-1902	Position switch		X
LS-MO-2000	Position switch		X
LS-MO-1903	Position switch		X
LS-MO-2001	Position switch		X
LS-MO-1904	Position switch		X
LS-MO-2004	Position switch		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
LS-MO-1905	Position switch		X
LS-MO-2003	Position switch		X
LS-MO-1932	Position switch		X
LS-MO-2005	Position switch		X
LS-MO-1933	Position switch		X
LS-MO-2006	Position switch		X
LS-MO-2009	Position switch		X
LS-MO-1935	Position switch		X
LS-MO-2007	Position switch		X
LS-MO-1934	Position switch		X
LS-MO-1943A,B	Position switch		X
LS-MO-1989	Position switch		X
LS-MO-2038	Position switch		X
LS-MO-2036	Position switch		X
LS-MO-1967	Position switch		X
LS-MO-1970	Position switch		X
LS-MO-2029	Position switch		X
LS-MO-2031	Position switch		X
LS-MO-1939	Position switch		X
LS-MO-1941	Position switch		X
LS-MO-2030	Position switch		X
LS-MO-1940	Position switch		X
LS-MO-1949A,B	Position switch		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
 REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Standby Gas Treatment System (SGTS)

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
SV-5825A,B	Solenoid valve		X
ZS-5825A,B	Position switch		X
SV-5815A,B	Solenoid valve		X
ZS-5815A,B	Position switch		X
SV-5817A,B	Solenoid valve		X
SV-7604V	Solenoid valve		X
ZS-7604U,V	Position switch		X
SV-7607A,B	Solenoid valves		X
ZS-7602A,B	Position switch		X
SV-7602A,B	Solenoid valve		X
SV-7605A,B	Solenoid valve		X
ZS-7605A,B	Position switch		X
RE-7606A,B	Radiation detector		X
SV-7639A,B	Solenoid valve		X
ZS-7639A,B	Position switch		X
SV-7637A,B	Solenoid valve		X
ZS-7637A,B	Position switch		X
DPS-7637A,B	Differential pressure switch		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
SV-7610A,B	Solenoid valve		X
ZS-7610A,B	Position switch		X
SV-7612A,B	Solenoid valve		X
ZS-7612A,B	Position switch		X
SV-7641A,B	Solenoid valve		X
ZS-7641A,B	Position switch		X
SV-7630A,B	Solenoid valve		X
ZS-7630A,B	Position switch		X
SV-7631A,B	Solenoid valve		X
ZS-7631A,B	Position switch		X
SV-7632A,B	Solenoid valve		X
ZS-7632A,B	Position switch		X
SV-7633A,B	Solenoid valve		X
ZS-7633A,B	Position switch		X
SV-7634A,B	Solenoid valve		X
ZS-7634A,B	Position switch		X
SV-7636A,B	Solenoid valve		X
ZS-7636A,B	Position switch		X
SV-7600A,B	Solenoid valve		X
ZS-7600A,B	Position switch		X
P/ER-7600A,B	Inlet vane control		X
DPT-7600A,B	Differential pressure trans- mitter		X
SV-5801A,B	Solenoid valve		X
ZS-5801A,B	Position switch		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
DPS-5803A,B	Differential pressure switch		X
TE-5805U,W,A, B,X,V	Temperature sensor		X
TS-5836A,B	Temperature switch		X
SV-5837A,B	Solenoid valve		X
FT-5829A,B	Flow transmitter		X
E/PC-5816A,B	Fan flow control		X
IV-EF-18A,B	Off gas stack exhaust fans		X
CU-5837A1,A2, B1,B2	Control units		X
DPT-5806A,B	Differential pressure transmitter		X

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CLASS 1E ELECTRICAL EQUIPMENT
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Standby AC Power Supply

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
1G-31, 1G-21	Diesel Generator		X
HS-3233A,B	Control switch		X
1P-44A,B	Transfer pump		X
LS-3208A, LS-3210A	Level switch		X
LS-3208B, LS-3210B	Level switch		X
TS-3226, TS-3227	Temperature switch		X
1A3	4,160 V switchgear		X
1A4	4,160 V switchgear		X
1X91	4,160-480/277 V transformer		X
1X20	4,160-480/277 V transformer		X
LIS-3201	Level indicating switch		X
LS-3207	Level switch		X
LS-3209	Level switch		X
LS-3215A,B	Level switch		X
LS-3216A,B	Level switch		X
HS-3225A,B	Control switch		X
LS-3218A,B	Level switch		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
LS-3219A,B	Level switch		X
LS-3220A,B	Level switch		X
1X31	4,160-480/277V transformer		X
1X41	4,160-480/277V transformer		X
1B9	480 V load center		X
1B20	480 V load center		X
1B3	480 V load center		X
1B4	480 V load center		X
1B32	480 V motor con- trol center (MCC)		X
1B34	480 V MCC		X
1B34A	480 V MCC		X
1B42	480 V MCC		X
1B44	480 V MCC		X
1B44A	480 V MCC		X
1B37	480 V MCC		X
1B21	480 V MCC		X
1B91	480 V MCC		X
1B36	480 V MCC		X
1B46	480 V MCC		X
IY-32	RPS alternative feed transformer		X
IG-51, IG-61	RPS motor generator set		X
IY-30	RPS distribution panel		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
PDS-3234A,B	Pressure differential switch		X
PS-3224A,B	Pressure switch		X
PS-3225A,B	Pressure switch		X
PS-3241A,B	Pressure switch		X
PS-3247A,B	Pressure switch		X
PS-3248A,B	Pressure switch		
PS-3249A,B	Pressure switch		X
SS-3236A,B	Speed switch		X
TS-3237A,B	Temperature switch		X
TS-3238A,B	Temperature switch		X
TS-3239A,B	Temperature switch		X
TS-3240A,B	Temperature switch		X

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CLASS 1E ELECTRICAL EQUIPMENT
 REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: DC Power Supply (125 V)

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
ID1	125 V battery		X
ID2	125 V battery		X
ID12	125 V battery charger		X
ID22	125 V battery charger 2		X
ID120	125 V battery charger 3		X
ID10	Distribution panel 1		X
ID20	Distribution panel 2		X
ID11	Distribution panel A		X
ID13	Distribution panel C		X
ID14	Recirculation motor control center		X
ID23	Distribution panel D		X
ID21	Distribution panel B		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
ID4	250 V battery		X
ID44	250 V battery charger 1		X
ID43	250 V battery charger 2		X
ID40	Distribution panel		X
ID41	DC motor control center high- pressure coolant injection system		X
ID42	DC motor control center		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
ID5	24 V battery 1		X
ID51	24 V battery charger 1		X
ID52	24 V battery charger 1		X
ID50	Distribution panel 1		X
ID6	24 V battery 2		X
ID61	24 V battery charger 2		X
ID62	24 V battery charger 2		X
ID60	Distribution panel 2		X

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CLASS 1E ELECTRICAL EQUIPMENT
 REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Residual Heat Removal Service Water System

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
1P-22A,B,C,D	RHR service water pumps and motors		X
MO-1943A,B	Gate valves (motor-operated)		X
MO-1947	Gate valve (motor-operated)		X
MO-2046	Gate valve (motor-operated)		X
HS-1942	Hand switch		X
ZT-1947	Position transmitter		X
ZT-2046	Position transmitter		X
HS-4924A,B,C,D	Hand switch (located in switchgear)		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Emergency Service Water System

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
1P-99A,B	Emergency service water pump motor		X
SV-1956A,B	Solenoid valves		X
MO-1998A,B	Butterfly valve (motor-operated)		X
MO-2039A,B	Gate valve (motor-operated)		X
MO-2077	Gate valve (motor-operated)		X
MO-2078	Gate valve (motor-operated)		X
ZS-1956A,B	Position switch		X
SV-2080	Solenoid valve		X
SV-2081	Solenoid valve		X
HS-4927A,B	Hand switch		X

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CLASS 1E ELECTRICAL EQUIPMENT
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Main Steam Line Radiation Monitoring

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
RE-4448A,B,C,D	Gamma detectors		X
RM-4448A,B,C,D	Radiation monitors		X
TA-4448A,B,C,D	Trip auxiliary units		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
 REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Reactor Protection System

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
PS-1005A,B C,D	Pressure switch		X
CV-1,2,3,4	Turbine control valve position switch		X
PS-1026A,B, C,D	Pressure switch		X
ZS-1076A,B, C,D	Position switch		X
LS-1861A,B, C,D	Level switch		X
ZS-9118	Position switch		
ZS-9119	Position switch		
ZS-9117	Position switch		
ZS-4412	Position switch	X	
ZS-4413	Position switch		X
ZS-4415	Position switch	X	
ZS-4416	Position switch		X
ZS-4418	Position switch	X	
ZS-4419	Position switch		X
ZS-4420	Position switch	X	
ZS-4421	Position switch		X
C71-APRMA	Average power range monitor		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
C71-APRMC	Average power range monitor		X
C71-APRME	Average power range monitor		X
C71-APRMA, C71-APRMC, C71-APRME	Bypass switches		X
C71-APRMB, C71-APRMD, C71-APRMF	Average power range monitor		X
C71-APRMB, C71-APRMD, C71-APRMF	Bypass switches		X
C51A-22A/K70, C51A-22A/K73	MSL radiation monitor		X
C51A-22C/K70, C51A-22C/K73	MSL radiation monitor		X
C51A-22B/K70, C51A-22B/K73	MSL radiation monitor		X
C51A-22D/K70, C51A-22D/K73	MSL radiation monitor		X
C71-IRMA, C71-IRMC, C71-IRME	Intermediate range monitor		X
C71-IRMA, C71-IRMC, C71-IRME	Bypass switches		X
C71-IRMB, C71-IRMD, C71-IRMF	Intermediate range monitor		X
C71-IRMB, C71-IRMD, C71-IRMF	Bypass switches		X
K15A,B,C,D	Scram contractor		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
K17A,B	Time delay relay		X
K22A,B	Time delay relay		X
C71-S1	Switch		X
S1	(reactor Hand switch		X
C71-S3A,B	Pushbutton		X
C71-S4	Hand switch		X
C71-S5	Switch		X
S6,S7,S8,S9	Switches		X
C71-SRMA, C71-SRMC	Startup range ignitor		X
C71-SRMA, C71, SRMC	Bypass switches		X
C71-SRMB, C71-SRMD	Startup range monitor		X
C71-SRMB, C71-SRMD	Bypass switches		X
ZS-1076A,B, C,D	Valve position switch		X
IY-30A,B	RPS distribution panel		X
IY-32	Transformer		X
IG-51, 1G-61	Motor/generator		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Engineered Safeguards Rooms Heating and Ventilating

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
IV-AC-14A,B	Air cooling fan		X
IV-AC-15A,B	Air cooling fan		X
IV-AC-11, IV-AC-12	Air cooling fan		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
 REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Control Building Heating and Ventilation

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
HS-6104U,V	Control switch		X
SV-6127A,B	Solenoid valve		X
HS-6113U,V	Control switch		X
SV-6108A,B	Solenoid valve		X
SV-6113A,B	Solenoid valve		X
IN-3207	Control box for control switch		X
IN-3208	Control box for control switch		X
CU-7327A,B	Control unit		X
CU-7329A,B	Control unit		X
DPS-7304A,B	Differential pressure switch		X
EC-7304A,B	Electric heater		X
FS-6924A,B	Flow switch		X
FS-6925A,B	Flow switch		X
FT-7320A,B	Flow transmitter		X
HS-6924U,V, X,Y	Hand switch		X
HS-7322B	Hand switch		X
HS-7328A,B	Hand switch		X
OT-7304A,B	Operating thermostat		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
RE-6101A,B	Radiation element		X
SV-6107A,B	Solenoid valve		X
SV-6109A,B	Solenoid valve		X
SV-6110A,B	Solenoid valve		X
SV-6135	Solenoid valve		X
SV-7301A,B	Solenoid valve		X
SV-7318A,B	Solenoid valve		X
SV-7322A,B	Solenoid valve		X
SV-7328A,B	Solenoid valve		X
TE-7304A,B	Temperature element		X
TS-7304A,B	Temperature switch		X
IN-305, IN-405	Chiller starter		X
IM-3207, IM-4218	Motors		X
IM-3208, IM-4219	Motors		X
IM-3212, IM-3217, 2M-4205	Motors		X
IM-3223 IM-4211	Motors		X
IM-3225, IM-4214	Motors		X
IMVEF-36A, IMVEF-36B	Motors		X
INVEF-36A,B	Motor starter		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Standby Diesel-Generator Room Heating and Ventilating

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
IV-SF-20, IV-SF-21	Supply fan		X
SV-7000A,B	Solenoid valve		X
SV-7001A,B	Solenoid valve		X
SV-7002A,B	Solenoid valve		X
ZS-7000A1,B1	Position switches		X
ZS-7002A1,B1	Position switches		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Standby Diesel-Generator Room Heating and Ventilating

Plant Identification Number	Generic Name	Location (elevation)	
		Inside Primary Containment	Outside Primary Containment
IV-SF-20, IV-SF-21	Supply fan		X
HS-7003A,B	Control switch		X
SV-7000A,B	Solenoid valve		X
SV-7001A,B	Solenoid valve		X
SV-7002A,B	Solenoid valve		X
ZS-7000A1,B1	Position switches		X
ZS-7002A1,B1	Position switches		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Emergency Service Water Pump Room Heating and Ventilating

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
SV-7939A,B	Solenoid valve		X
SV-7538A,B	Solenoid valve		X
SV-7536, SV-7537	Solenoid valve		X
TIC-7538A,B	Temperature indi- cating controller		X
SV-7514	Solenoid valve		X
SV-7519	Solenoid valve		X

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CLASS 1E ELECTRICAL EQUIPMENT
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Intake Structure Heating and Ventilating

Plant Identification Number	Generic Name	Location		
		Inside Containment	Primary	Outside Primary Containment
IV-UH-52A through H	Unit heater			X
TS-7701 through TS-7708	Temperature switch			X
TIC-7717A,B	Temperature indicating controller			X
TIC-7718A,B	Temperature indicating controller			X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Radiation Monitoring Systems

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
AN-8181A,B	Oxygen analyzer		X
AN-8182A,B	Hydrogen analyzer		X
SV-8101A,B	Solenoid valve		X
SV-8103A,B	Solenoid valve		X
SV-8102A,B	Solenoid valve		X
SV-8104A,B	Solenoid valve		X
TA-4131A,B	Trip auxiliary units		X
SV-8105A,B	Solenoid valve		X
SV-8106A,B	Solenoid valve		X
SV-8107A,B	Solenoid valve		X
SV-8108A,B	Solenoid valve		X
SV-8109A,B	Solenoid valve		X
SV-8110A,B	Solenoid valve		X
SV-8111A,B	Solenoid valve		X
SV-8112A,B	Solenoid valve		X
SV-8113A,B	Solenoid valve		X
SV-8114A,B	Solenoid valve		X
SV-8115A,B	Solenoid valve		X
SV-8116A,B	Solenoid valve		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
SV-8117A,B, C,D	Solenoid valve		X
SV-8118A,B	Solenoid valve		X
SV-8126A,B	Solenoid valve		X
SV-8128A,B	Solenoid valve		X
SV-8133A,B	Solenoid valve		X
SV-8130A,B	Solenoid valve		X
IP-26A,B,C,D	Pump motors and motor starters		X
IP-27A,B,C,D	Pump motors and motor starters		X
IP-28A,B	Pump motors and motor starters		X
IP-29A,B	Pump motors and motor starters		X
SV-4129A,B	Solenoid valve		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
 REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: River Intake System

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
IP-117A,B,C,D	Water supply pump		X
HS-2908A,B,C,D	Hand switch (switchgear-mounted)		X
KY-2902A,B,C	Time delay relay (switchgear-mounted)		X
KY-2903A,B,C	Time delay relay (switchgear-mounted)		X
ZS-2902, ZS-2903	Position switches		X
MO-2902, MO-2903	Motor-operated valves		X
PS-2902, PS-2903	Pressure switches		X
HS-2902A,B	Hand switch		X
LE-2904	Level element		X
LE-2905	Level element		X
HS-2903A,B	Hand switch (LOC)		X
IM-2107	Traveling screen motor		X
IM-9107	Traveling screen motor		X
E/P-4914	Electric-to- pneumatic converter		X
E/P-4916	Electric-to- pneumatic converter		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
LE-4935A,B	Level element		X
LIS-4935A,B	Level indicating switch		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Electrical and Control Panels

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
IC-02	Panel		X
IC-03	Panel		X
IC-04	Panel		X
IC-05	Panel		X
IC-06	Panel		X
IC-08	Panel		X
IC-10	Panel		X
IC-13	Panel		X
IC-14	Panel		X
IC-15	Panel		X
IC-16	Panel		X
IC-17	Panel		X
IC-18	Panel		X
IC-19	Panel		X
IC-20	Panel		X
IC-21	Panel		X
IC-23A,B	Panel		X
IC-24A,B	Panel		X
IC-26	Panel		X
IC-27	Panel		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
IC-28	Panel		X
IC-29	Panel		X
IC-30	Panel		X
IC-31	Panel		X
IC-32	Panel		X
IC-33	Panel		X
IC-35	Panel		X
IC-36	Panel		X
IC-37	Panel		X
IC-39	Panel		X
IC-41	Panel		X
IC-42	Panel		X
IC-43	Panel		X
IC-44	Panel		X
IC-45	Panel		X
IC-54	Panel		X
IC-55	Panel		X
IC-55A,B	Panel		X
IC-56	Panel		X
IC-56A	Panel		X
IC-57	Panel		X
IC-58	Panel		X
IC-59	Panel		X
IC-72	Panel		X
IC-77A,B,C, D,E,F	Panel		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
IC-91	Panel		X
IC-92	Panel		X
IC-102	Panel		X
IC-117	Panel		X
IC-118	Panel		X
IC-109A,B	Panels		X
IC-107A,B	Panels		X
IC-120	Panel		X
IC-121	Panel		X
IC-122	Panel		X
IC-123	Panel		X
IC-124	Panel		X
IC-125A	Panel		X
IC-126A,B	Panel		X
IC-128	Panel		X
IC-129A,B	Panel		X
IC-131A through G	Panel		X
IC-132	Panel		X
IC-133	Panel		X
IC-145	Panel		X
IC-151	Panel		X
IC-152	Panel		X
IC-154A,B	Panel		X
IC-158	Panel		X
IC-162	Panel		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
IC-163	Panel		X
IC-164A,B	Panel		X
IC-170	Panel		X
IC-171	Panel		X
IC-177	Panel		X
IC-183	Panel		X
IC-184	Panel		X
IC-142	Panel		X
IC-156	Panel		X
IC-157	Panel		X
IC-160	Panel		X
IC-161	Panel		X
IC-193A,B,	Panel		X
IC-194A,B,C,D	Panel		X
IC-208	Panel		X
IC-218A,B	Panel		X
IC-219A,B	Panel		X
IC-227A,B	Panel		X
IC-159	Panel		X
IC-215	Panel		X
IC-168	Panel		X
IC-169	Panel		X
IV-CH-1A,B	Panel		X

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CLASS 1E ELECTRICAL EQUIPMENT
REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Pumphouse Drain Sump

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
1P-132A,B	Pump motors		X
HS-4936A,B	Control switch		X
LS-4936A,B	Level switch		X
LE-4936A,B	Level sensor		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
 REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Leak Detection

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
TE-2742A through F	Temperature element (reactor water cleanup)		X
TE-2743A through F	Temperature element (reactor water cleanup)		X
TE-2744A through F	Temperature element (reactor water cleanup)		X
TE-2526A through D	Temperature element (suppression pool)		X
TE-2522A through D	Temperature element (suppression pool)		X
TE-2523A through D	Temperature element (suppression pool)		X
TE-2451A,B	Temperature element (RCIC)		X
TE-2446A,B	Temperature element (RCIC)		X
TE-2265	Temperature element (HPCI)		X
TE-2264A,B	Temperature element (HPCI)		X
TE-2262A,B	Temperature element (HPCI)		X
TE-2263A,B	Temperature element (HPCI)		X
FT-2725	Flow transmitter		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
MO-2700	Gate valve (motor-operated)	X	
MO-2701	Gate valve (motor-operated)		X
TE-2722	Temperature element		X
TE-2082A,B	Temperature element (RHR)		X
TE-2083A,B	Temperature element (RHR)		X
TE-2084A,B	Temperature element (RHR)		X
TE-4447	Temperature element (MSL)		X
TE-4451A,B	Temperature element (MSL)		X

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
 REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Containment Atmosphere Control

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
SV-4300	Solenoid valve		X
ZS-4300	Position switch		X
SV-4301	Solenoid valve		X
ZS-4301	Position switch		X
SV-4302	Solenoid valve		X
ZS-4302	Position switch		X
SV-4303	Solenoid valve		X
ZS-4303	Position switch		X
SV-4304	Solenoid valve	X	
ZS-4304	Position switch	X	
PDIS-4304	Pressure differential indicating switch	X	
SV-4305	Solenoid valve	X	
ZS-4305	Position switch	X	
PDIS-4305	Pressure differential indicating switch	X	
SV-4306	Solenoid valve	X	
ZS-4306	Position switch	X	
SV-4307	Solenoid valve	X	
ZS-4307	Position switch	X	

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
SV-4308	Solenoid valve	X	
ZS-4308	Position switch	X	
SV-4309	Solenoid valve		X
ZS-4309	Position switch		X
SV-4310	Solenoid valve		X
ZS-4310	Position switch		X
SV-4311	Solenoid valve	X	
ZS-4311	Position switch	X	
SV-4312	Solenoid valve	X	
ZS-4312	Position switch	X	
SV-4313	Solenoid valve	X	
ZS-4313	Position switch	X	
SV-4318	Solenoid valve		X
PS-4318	Pressure switch		X
ZS-4318	Position switch		X
MO-4320A,B	Gate valve (motor-operated)		X
MO-4323A,B	Globe valve (motor-operated)		X
PI-4323A,B	Pressure indicator		X
TE-4336	Temperature element		X
TT-4336	Temperature transmitter		X
TI-4336A,B	Temperature indicator		X

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
PI-4337A,B	Pressure indicator		X
PT-4338	Pressure transmitter		X
PI-4338B	Pressure indicator		X
PT-4365A,B	Pressure transmitter		X
MO-4369A,B,C	Butterfly valves (motor-operated)		X
SV-4371A,B,C	Solenoid valves	X	
ZS-4371A,B,C	position switches	X	
IT-105A,B	Air accumulators		X
SV-4378A,B	Solenoid valve	X	
ZS-4378A,B	Position switch	X	
SV-4333A,B	Solenoid valve	X	
SV-4334A,B	Solenoid valve	X	
SV-4331A,B	Solenoid valve	X	
SV-4332A,B	Solenoid valve	X	
ZS-4333A,B	Position switch	X	
ZS-4334A,B	Position switch	X	
ZS-4331A,B	Position switch	X	
ZS-4332A,B	Position switch	X	

MASTER LIST

CLASS 1E ELECTRICAL EQUIPMENT
 REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: Ancillary Components

Plant Identification Number	Generic Name	Location	
		Inside Primary Containment	Outside Primary Containment
Cable	5000 V power cable		X
Cable	600 V power and control cable	X	X
Cable	600 V instrument cable	X	X
Cable	Special coaxial cable	X	X
Cable	Thermocouple cable	X	X
Cable	Coaxial and tri-axial cable		X
JB, TB	Junction and terminal boxes		X
JX	Containment Electrical cable penetrations	X	X
Splices	Splicing kits for 600 V power and control cables	X	X