

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

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NOV 28 1989

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Gentlemen:

In the Matter of ) Docket Nos. 50-327  
Tennessee Valley Authority ) 50-328

SEQUOYAH NUCLEAR PLANT (SQN) - NRC BULLETIN 88-10, NONCONFORMING MOLDED-CASE  
CIRCUIT BREAKERS

- References:
1. TVA letter to NRC dated April 11, 1989, "TVA's Response to Bulletin 88-10: Nonconforming Molded-Case Circuit Breakers"
  2. TVA letter to NRC dated July 17, 1989, "Sequoyah Nuclear Plant (SQN) - NRC Bulletin 88-10, Nonconforming Molded-Case Circuit Breakers"

This letter provides a revision to Enclosure 1 of Reference 1 for SQN Units 1 and 2. Earlier corrections for SQN were provided by Reference 2. For your convenience, a corrected copy of Attachment 2 to Enclosure 1 is provided with revision bars in the margin.

The manufacturer part numbers for Packages 1.40 and 25.20 through 26.11 have been revised to provide more complete and correct information.

Packages 5.10, 9.10, 11.20, 25.10, 26.20, 26.21, and 26.45 have been deleted from the listing in Attachment 2 to Enclosure 1. The circuit breakers in Packages 5.10 and 11.20 were replaced and are no longer suspect breakers. The circuit breaker in Package 9.10 was not purchased between August 1, 1983, and August 1, 1988, and is, therefore, not subject to the requirements of NRC Bulletin 88-10. Because of more recent replacements, Packages 25.10, 26.20, 26.21, and 26.45 have been superseded by Packages 80.32, 55.29, 67.39, and 40.60, respectively.

Packages 12.10 and 35.01 have been added to the listing. These two essential raw cooling water breakers supply non-Class-1E loads from Class 1E panels. They were identified in SQN's original search for Bulletin 88-10 and were misclassified as non-Class-1E breakers. A review of other breakers for non-Class-1E loads that are installed in Class 1E panels has not identified any additional misclassified breakers.

Package 34.10 has been added to the listing. This circuit breaker was inadvertently replaced with a suspect breaker in June 1989.

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Packages 50.01 through 68.98 have been added to the listing. The breakers in these packages were all installed by Engineering Change Notice (ECN) L6883. It has been determined that the oversight of three of the ECN L6883 workplans was due to a previous memorandum issued concerning the traceability of the one ECN L6883 workplan addressed in Reference 1. It was incorrectly assumed that all ECN L6883 workplans had been reviewed and untraceable breakers were only identified on the one workplan.

In accordance with the requirements of Bulletin 88-10, each of the packages noted above as being additions to the listing have a justification for continued operation in place.

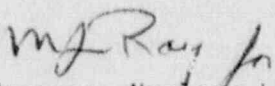
Packages 80.01 through 80.42 have been added to the listing. These breakers were procured for installation in the plant as direct-charge maintenance breakers. (Direct-charge material is material that has been preidentified and procured for a specific job, as opposed to stock material.) As a result of identifying packages 80.01 through 80.42, an evaluation of TVA's original review for Bulletin 88-10 was performed. It has been determined that all direct-charge molded-case circuit breakers were not identified initially. TVA has developed an action plan to identify untraceable direct-charge breakers. The installation location of any additional untraceable breakers will be determined by December 31, 1989. In accordance with the bulletin requirements, all of these additional breakers will either be replaced or have a justification for continued operation in place by January 30, 1990.

As a result of the large number of additional breakers to be replaced, TVA is clarifying Commitment 4 for SQN as it was stated in Enclosure 4 of Reference 1. The breakers will be replaced in accordance with the schedule in Bulletin 88-10. However, since the number is now greater than 75 per unit, one-half of the breakers for each unit will be replaced before startup after the Cycle 4 refueling outages and one-half will be replaced before startup after the Cycle 5 refueling outages.

A summary statement of the commitments contained in this submittal is provided in Enclosure 2. Please direct questions concerning this issue to K. S. Whitaker at (615) 843-7748.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

  
Manager, Nuclear Licensing  
and Regulatory Affairs

Enclosures  
cc: See page 3

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cc (Enclosures):

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ENCLOSURE 1

Revision 2 to  
Attachment 2 to Enclosure 1  
from April 11, 1989, Letter

SEQUOYAH NUCLEAR PLANT  
NRCB 88-10 SUSPECT MOLDED-CASE CIRCUIT BREAKERS  
REVISION 2 - 8810REV3.DBF  
ENCLOSURE 1

PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
1.30	120VAC VITAL INSTRUMENT POWER BOARD 2-III, BKR 37	PROCESS CONTROL GROUP 3	HEINEMANN	CF2-251-1 *	15
1.40	120VAC VITAL INSTRUMENT POWER BOARD 1-II, BKR 24	PANEL 1-M-4, RAD MON., REACTOR VESSEL HD VENT THROTTLE	HEINEMANN	CF2-251-1 *	15
1.60	120VAC VITAL INSTRUMENT POWER BOARD 1-I, BKR 25	NSSS AUX RLY RACK BUS	HEINEMANN	CF2-251-1 *	15
2.20	SHUTDOWN BOARD ROOMS A&B WATER CHILIER PKG B-B	OIL HEATER BREAKER ON COMPRESSOR PANEL	AIRPAXELER	203-1-2807-1 *	16
6.30	480V ERCW MCC-2A SHUNT TRIP BKR ON 6.9KV SD LOGIC PNL 2A	2-PNLB-202-SC-A, LOAD SHEDDING BKR FOR 480V ERCW MCC 2A-A	WESTINGHOUSE	KB3 200 *	200
7.10	480V DSL AUX BOARD 2-A, COMPT 6D	DSL GEN 2A-A ROOM EXHAUST FAN 2-A	GENERAL ELECTRIC	TED 136050 *	50
12.10	480V ERCW MCC 2A-A, COMPT 4FL	ERCW PUMPING STATION UNIT HEATER J	WESTINGHOUSE	FB 3020 *	20
14.20	120VAC VITAL INSTRUMENT POWER BOARD 2-II, BKR 13	INCORE TEMPERATURE MONITORING SYSTEM	HEINEMANN	CF2-243-1 *	15
14.30	120VAC VITAL INSTRUMENT POWER BOARD 2-I, BKR 13	INCORE TEMPERATURE MONITORING SYSTEM	HEINEMANN	CF2-243-1 *	15
16.40	480V C&A VENT BOARD 2B2-B COMPT 8E1	FIFTH VITAL BATTERY ROOM DUCT HEATER B	GENERAL ELECTRIC	THED 136050WL *	50
25.20	125VDC VITAL BATTERY BOARD II PNL 0, BKR 001	125VDC BATTERY BD II OR V PERFORMANCE TEST TERMINALS	WESTINGHOUSE	HLA 2600 *	600
25.30	125VDC VITAL BATTERY BOARD III PNL 0, BKR 001	125VDC BATTERY BD III OR V PERFORMANCE TEST TERMINALS	WESTINGHOUSE	HLA 2600 *	600
25.40	125VDC VITAL BATTERY BOARD IV PNL 0, BKR 001	125VDC BATTERY BD IV OR V PERFORMANCE TEST TERMINALS	WESTINGHOUSE	HLA 2600 *	600
26.10	125VDC VITAL BATTERY BOARD I PNL 3, BKR 328	UNIT 1 ANNUNCIATOR PNL 1-L-236	WESTINGHOUSE	HKA 2100 *	100
26.11	125VDC VITAL BATTERY BOARD IV PNL-3, BKR-328	UNIT-2 ANNUNCIATOR PNL 2-L-237	WESTINGHOUSE	HKA 2100 *	100

NOTE: Package numbers with an asterisk (\*) beside the "PART NO." column have a JCO in place.

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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
26.31	480V C&A VENT BOARD 2B1-B COMPT 8B	480V BD RM 2B A/C CONDENSER 2B-B	GENERAL ELECTRIC	TED 136040WL *	40
26.33	480V REACTOR MOV BOARD 1B1-B, COMPT 4A	BORIC ACID TRANSFER PMP 1B-B	GENERAL ELECTRIC	TED 136040WL *	40
26.35	480V C&A VENT BOARD 1A1-A COMPT 4C	EL 714 PENETRATION RM CLR FAN 1A-A	GENERAL ELECTRIC	TED 136040WL *	40
26.43	480V REACTOR VENT BOARD 1A-A COMPT 5E	WASTE GAS COMPRESSOR PACKAGE A	GENERAL ELECTRIC	TED 136050WL *	50
26.44	480V REACTOR VENT BOARD 2A-A COMPT 5E	WASTE GAS COMPRESSOR PACKAGE B	GENERAL ELECTRIC	TED 136050WL *	50
26.47	480V C&A VENT BOARD 2B1-B COMPT 7A	SPARE BKR	GENERAL ELECTRIC	TED 136050WL	50
26.48	480V C&A VENT BOARD 1B1-B COMPT 7A	SPARE BKR	GENERAL ELECTRIC	TED 136050WL	50
26.55	480V C&A VENT BOARD 2A1-A COMPT 4C	EL 714 PENETRATION RM CLR FAN 2A-A	GENERAL ELECTRIC	TED 136040WL *	40
30.10	480V REACTOR VENT BOARD 1A-A COMPT 5C	SPARE BKR	GENERAL ELECTRIC	THED 136100WL	100
31.10	480V REACTOR VENT BOARD 2A-A COMPT 6D	REACTOR LOWER COMPARTMENT HEATER 2A	GENERAL ELECTRIC	THED 136020WL *	20
31.20	480V DSL AUX BOARD 2A2-A COMPT 5D	DG 2A-A ROOM HEATER B	GENERAL ELECTRIC	THED 136020WL *	20
31.30	480V DSL AUX BOARD 2A2-A COMPT 1C2	SPACE HEATER	GENERAL ELECTRIC	THED 136020WL *	20
31.40	480V DSL AUX BOARD 1A2-A COMPT 6A	EMERGENCY DIESEL ENGINE HTX SUPPLY VLV 1-FCV-067-066	GENERAL ELECTRIC	THED 136020WL *	20
31.50	480V DSL AUX BOARD 2A2-A COMPT 6A	EMERGENCY DIESEL ENGINE HTX SUPPLY VLV 2-FCV-067-066	GENERAL ELECTRIC	THED 136020WL *	20
31.60	480V DSL AUX BOARD 2B2-B COMPT 6A	EMERGENCY DIESEL ENGINE HTX SUPPLY VLV 2-FCV-067-067	GENERAL ELECTRIC	THED 136020WL *	20

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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
32.10	480V SHUTDOWN BOARD 1B2-B COMPT 2D	CCS PUMP MOTOR C-S, NORMAL FEEDER BKR, 0-XSM-070-0051-S	GENERAL ELECTRIC	TJK 636Y600 *	600
33.01	480V REACTOR VENT BOARD 1B-B COMPT 2C	REACTOR COOLANT DRAIN TANK PUMP 1B	GENERAL ELECTRIC	TED 136050WL *	50
33.02	480V REACTOR MOV BOARD 2A1-A COMPT 14A	BORIC ACID TRANSFER PUMP 2A-A	GENERAL ELECTRIC	TED 136050WL *	50
33.03	480V REACTOR MOV BOARD 2B1-B COMPT 4A	BORIC ACID TRANSFER PUMP 2B-B	GENERAL ELECTRIC	TED 136050WL *	50
33.04	480V REACTOR MOV BOARD 2B1-B COMPT 11C	CONTAINMENT SUMP FLOW VALVE 2-FCV-063-0073	GENERAL ELECTRIC	TED 136050WL *	50
33.05	480V REACTOR MOV BOARD 2B1-B COMPT 11E	SIS ACCUM TANK 2 FLOW ISOL VALVE 2-FCV-063-0098	GENERAL ELECTRIC	TED 136050WL *	50
33.06	480V REACTOR VENT BOARD 2A-A COMPT 2C	REACTOR COOLANT DRAIN TANK PUMP 2A	GENERAL ELECTRIC	TED 136050WL *	50
33.07	480V DSL AUX BOARD 1A1-A COMPT 6A	DG 1A-A ROOM EXHAUST FAN 1-A	GENERAL ELECTRIC	TED 136050WL *	50
33.08	480V DSL AUX BOARD 1A2-A COMPT 6D	DG 1A-A ROOM EXHAUST FAN 2-A	GENERAL ELECTRIC	TED 136050WL *	50
33.09	480V DSL AUX BOARD 1B1-B COMPT 5A	DG 1B-B ROOM EXHAUST FAN 1-B	GENERAL ELECTRIC	TED 136050WL *	50
33.10	480V DSL AUX BOARD 1B2-B COMPT 6D	DG 1B-B ROOM EXHAUST FAN 2-B	GENERAL ELECTRIC	TED 136050WL *	50
33.11	480V REACTOR MOV BOARD 1A1-A COMPT 16D	BORIC ACID TRANSFER PUMP 1A-A	GENERAL ELECTRIC	TED 136050WL *	50
33.12	480V REACTOR VENT BOARD 1A-A COMPT 2C	REACTOR COOLANT DRAIN TANK PUMP 1A	GENERAL ELECTRIC	TED 136050WL *	50
33.13	480V REACTOR MOV BOARD 1A1-A COMPT 13C	SIS ACCUM TANK 3 FLOW ISOL VALVE 1-FCV-063-0080	GENERAL ELECTRIC	TED 136050WL *	50
33.14	480V REACTOR MOV BOARD 1B1-B COMPT 11B	SIS ACCUM TANK 4 FLOW ISOL VALVE 1-FCV-063-0067	GENERAL ELECTRIC	TED 136050WL *	50

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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
33.15	480V REACTOR MOV BOARD 1B1-B COMPT 11C	CONTAINMENT SUMP FLOW ISOL VALVE 1-FCV-063-0073	GENERAL ELECTRIC	TED 136050WL *	50
33.16	480V C&A VENT BOARD 1B1-B COMPT 13D2	CONTROL BLDG PRESSURE FAN B-B	GENERAL ELECTRIC	TED 136050WL *	50
33.17	480V REACTOR VENT BOARD 1A-A COMPT 4C	ICE CONDENSER FLOOR COOLING PUMP 1A	GENERAL ELECTRIC	TED 136050WL *	50
33.18	480V REACTOR VENT BOARD 1B-B COMPT 4C	ICE CONDENSER FLOOR COOLING PUMP 1B	GENERAL ELECTRIC	TED 136050WL *	50
33.19	480V REACTOR VENT BOARD 2A-A COMPT 4C	ICE CONDENSER FLOOR COOLING PUMP 2A	GENERAL ELECTRIC	TED 136050WL *	50
33.20	480V REACTOR VENT BOARD 2B-B COMPT 4C	ICE CONDENSER FLOOR COOLING PUMP 2B	GENERAL ELECTRIC	TED 136050WL *	50
33.21	480V C&A VENT BOARD 1A1-A COMPT 8A	PRIMARY WATER MAKEUP PUMP 1A	GENERAL ELECTRIC	TED 136050WL *	50
33.22	480V C&A VENT BOARD 1A2-A COMPT 9B	HOT INSTR SHOP A/C	GENERAL ELECTRIC	TED 136050WL *	50
33.23	480V C&A VENT BOARD 1B1-B COMPT 8A	PRIMARY WATER MAKEUP PUMP 1B	GENERAL ELECTRIC	TED 136050WL *	50
33.24	480V C&A VENT BOARD 2B1-B COMPT 8A	PRIMARY WATER MAKEUP PUMP 2B	GENERAL ELECTRIC	TED 136050WL *	50
33.25	480V C&A VENT BOARD 1B1-B COMPT 3D	SPARE BKR	GENERAL ELECTRIC	TED 136050WL *	50
33.26	480V REACTOR VENT BOARD 1B-B COMPT 5C	SPARE BKR	GENERAL ELECTRIC	TED 136050WL *	50
34.10	480V REACTOR VENT BOARD 2A-A COMPT 11E2	AUXILIARY AND CONTROL BLDG 480V RECEPTACLES	GENERAL ELECTRIC	THED 136100WL *	100
35.01	480V ERCW MCC 2A-A COMPT 4DL	480V POWER RECEPTACLES	WESTINGHOUSE	FB 3100 *	100
40.10	480V REACTOR VENT BOARD 2A-A COMPT 3D	CONTAINMENT PURGE EXHAUST FAN 2A	GENERAL ELECTRIC	THED 136100WL *	100



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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
40.20	480V REACTOR VENT BOARD 2B-B COMPT 2A	CONTAINMENT PURGE EXHAUST FAN 2B	GENERAL ELECTRIC	THED 136100WL *	100
40.30	480V REACTOR VENT BOARD 1A-A COMPT 3D	CONTAINMENT PURGE EXHAUST FAN 1A	GENERAL ELECTRIC	THED 136100WL *	100
40.40	480V REACTOR VENT BOARD 1B-B COMPT 2A	CONTAINMENT PURGE EXHAUST FAN 1B	GENERAL ELECTRIC	THED 136100WL *	100
40.50	480V REACTOR VENT BOARD 2A-A COMPT 9C	CONTAINMENT PURGE SUPPLY FAN 2A	GENERAL ELECTRIC	THED 136050WL *	50
40.60	480V REACTOR VENT BOARD 2B-B COMPT 7C	CONTAINMENT PURGE AIR SUPPLY FAN 2B	GENERAL ELECTRIC	THED 136050WL *	50
40.70	480V REACTOR VENT BOARD 1A-A COMPT 9C	CONTAINMENT PURGE SUPPLY FAN 1A	GENERAL ELECTRIC	THED 136050WL *	50
40.80	480V REACTOR VENT BOARD 1B-B COMPT 7C	CONTAINMENT PURGE SUPPLY FAN 1B	GENERAL ELECTRIC	THED 136050WL *	50
50.01	480V REACTOR MOV BOARD 1A1-A COMPT 3A	SEAL FLOW ISOLATION VALVE 1-FCV-062-063	GENERAL ELECTRIC	THED 136015WL *	15
50.03	480V REACTOR MOV BOARD 1A1-A COMPT 3B	CHARGING FLOW ISOLATION VALVE 1-FCV-062-090	GENERAL ELECTRIC	THED 136015WL *	15
50.05	480V REACTOR MOV BOARD 1A1-A COMPT 3E	VOLUME CONTROL TANK ISOLATION VALVE 1-LCV-062-132	GENERAL ELECTRIC	THED 136015WL *	15
50.07	480V REACTOR MOV BOARD 1A1-A COMPT 4A	RWST VALVE 1-LCV-062-135	GENERAL ELECTRIC	THED 136015WL *	15
50.09	480V REACTOR MOV BOARD 1A1-A COMPT 5B	CONTAINMENT SPRAY PUMP 1A-A RECIRC FLOW CONTROL VLV 1-FCV-072-034	GENERAL ELECTRIC	THED 136015WL *	15
50.11	480V REACTOR MOV BOARD 1A1-A COMPT 5C	CONTAINMENT SPRAY HEADER 1A ISOLATION VALVE 1-FCV-072-039	GENERAL ELECTRIC	THED 136015WL *	15
50.13	480V REACTOR MOV BOARD 1A1-A COMPT 7C2	RHR PUMP 1A-A MINI FLOW VALVE 1-FCV-074-012	GENERAL ELECTRIC	THED 136015WL *	15
50.15	480V REACTOR MOV BOARD 1A1-A COMPT 12A	SIS BIT SHUTOFF VALVE 1-FCV-063-026	GENERAL ELECTRIC	THED 136015WL *	15

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50.17	480V REACTOR MOV BOARD 1A1-A COMPT 12E	SIS BIT INLET SHUTOFF VALVE 1-FCV-063-039	GENERAL ELECTRIC	THED 136015WL *	15
50.19	480V REACTOR MOV BOARD 1A1-A COMPT 13A	CONTAINMENT SUMP FLOW ISOLATION VALVE 1-FCV-063-072	GENERAL ELECTRIC	TED 136040WL *	40
52.00	480V REACTOR MOV BOARD 1A2-A COMPT 2B	ERCW HEADER 1A ISOLATION VALVE 1-FCV-003-116B	GENERAL ELECTRIC	THED 136015WL *	15
52.02	480V REACTOR MOV BOARD 1A2-A COMPT 2C	ERCW HEADER 1A ISOLATION VALVE 1-FCV-003-116A	GENERAL ELECTRIC	THED 136015WL *	15
52.04	480V REACTOR MOV BOARD 1A2-A COMPT 2E	ERCW HEADER 1A ISOLATION VALVE 1-FCV-003-136A	GENERAL ELECTRIC	THED 136015WL *	15
52.06	480V REACTOR MOV BOARD 1A2-A COMPT 3B	ERCW HEADER 1A ISOLATION VALVE 1-FCV-003-136B	GENERAL ELECTRIC	THED 136015WL *	15
52.08	480V REACTOR MOV BOARD 1A2-A COMPT 4A	LOWER CONTAINMENT 1A COOLER SUPPLY ISLN VLV 1-FCV-067-083	GENERAL ELECTRIC	THED 136015WL *	15
52.10	480V REACTOR MOV BOARD 1A2-A COMPT 4B	LOWER CONTAINMENT 1A COOLER DISCHARGE ISLN VLV 1-FCV-067-087	GENERAL ELECTRIC	THED 136015WL *	15
52.12	480V REACTOR MOV BOARD 1A2-A COMPT 4C	LOWER CONTAINMENT 1C COOLER SUPPLY ISLN VLV 1-FCV-067-091	GENERAL ELECTRIC	THED 136015WL *	15
52.14	480V REACTOR MOV BOARD 1A2-A COMPT 5A	LOWER CONTAINMENT 1C COOLER DISCHARGE ISLN VLV 1-FCV-067-095	GENERAL ELECTRIC	THED 136015WL *	15
52.16	480V REACTOR MOV BOARD 1A2-A COMPT 5B	LOWER CONTAINMENT 1B COOLER DISCHARGE ISLN VLV 1-FCV-067-104	GENERAL ELECTRIC	THED 136015WL *	15
52.18	480V REACTOR MOV BOARD 1A2-A COMPT 5C	LOWER CONTAINMENT 1D CLR DISCHARGE ISLN VLV 1-FCV-067-112	GENERAL ELECTRIC	THED 136015WL *	15
52.20	480V REACTOR MOV BOARD 1A2-A COMPT 7B	UPPER CONTAINMENT VENT CLR 1A SUPPLY ISLN VLV 1-FCV-067-130	GENERAL ELECTRIC	THED 136015WL *	15
52.22	480V REACTOR MOV BOARD 1A2-A COMPT 7C	UPPER CONTAINMENT VENT CLR 1C SUPPLY ISLN VLV 1-FCV-067-133	GENERAL ELECTRIC	THED 136015WL *	15

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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RAT ING
52.24	480V REACTOR MOV BOARD 1A2-A COMPT 7E	UPPER CONTAINMENT CLR 1B DISCHARGE ISLN VLV 1-FCV-067-139	GENERAL ELECTRIC	THED 136015WL *	15
52.26	480V REACTOR MOV BOARD 1A2-A COMPT 8A	UPPER CONTAINMENT VENT CLR 1D DISCHARGE ISLN VLV 1-FCV-067-142	GENERAL ELECTRIC	THED 136015WL *	15
52.28	480V REACTOR MOV BOARD 1A2-A COMPT 10A	UPPER CONTAINMENT CLR 1A DISCHARGE ISLN VLV 1-FCV-067-295	GENERAL ELECTRIC	THED 136015WL *	15
52.30	480V REACTOR MOV BOARD 1A2-A COMPT 10B	UPPER CONTAINMENT CLR 1C DISCHARGE ISLN VLV 1-FCV-067-296	GENERAL ELECTRIC	THED 136015WL *	15
52.32	480V REACTOR MOV BOARD 1A2-A COMPT 14B	EXCESS LETDOWN HTX CONTAINMENT INLET ISLN VLV 1-FCV-070-143	GENERAL ELECTRIC	THED 136015WL *	15
52.34	480V REACTOR MOV BOARD 1A2-A COMPT 14C	RCP THERMAL BARRIER RETURN CONTAINMENT ISLN VLV 1-FCV-070-090	GENERAL ELECTRIC	THED 136015WL *	15
52.36	480V REACTOR MOV BOARD 1A2-A COMPT 14E1	RCP THERMAL BARRIER RETURN CONTAINMENT ISLN VLV 1-FCV-070-090	GENERAL ELECTRIC	THED 136015WL *	15
52.38	480V REACTOR MOV BOARD 1A2-A COMPT 15A	RCP OIL COOLER RETURN CONTAINMENT ISLN VLV 1-FCV-070-092	GENERAL ELECTRIC	THED 136015WL *	15
52.40	480V REACTOR MOV BOARD 1A2-A COMPT 15E	CONTAINMENT STANDPIPE ISLN VALVE 1-FCV-026-240	GENERAL ELECTRIC	THED 136015WL *	15
52.42	480V REACTOR MOV BOARD 1A2-A COMPT 16B	STEAM GENERATOR FEEDWATER ISLN VLV 1-FCV-003-033	GENERAL ELECTRIC	THED 136090WL *	90
52.44	480V REACTOR MOV BOARD 1A2-A COMPT 17C	STEAM GENERATOR FEEDWATER ISLN VLV 1-FCV-003-087	GENERAL ELECTRIC	THED 136090WL *	90
52.46	480V REACTOR MOV BOARD 1A2-A COMPT 18C	ANNULUS STANDPIPE ISLN VALVE 1-FCV-026-242	GENERAL ELECTRIC	THED 136015WL *	15
52.48	480V REACTOR MOV BOARD 1A2-A COMPT 19B	RCP SPRAY ISOLATION VALVE 1-FCV-026-243	GENERAL ELECTRIC	THED 136015WL *	15

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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RAT ING
52.50	480V REACTOR MOV BOARD 1A2-A COMPT 19C	ANNULUS STANDPIPE ISOLATION VALVE 1-FCV-026-245	GENERAL ELECTRIC	THED 136015WL *	15
55.01	480V REACTOR MOV BOARD 1B1-B COMPT 7C	SEAL FLOW ISOLATION VALVE 1-FCV-062-061	GENERAL ELECTRIC	THED 136015WL *	15
55.05	480V REACTOR MOV BOARD 1B1-B COMPT 7E	CHARGING FLOW ISOLATION VALVE 1-FCV-062-091	GENERAL ELECTRIC	THED 136015WL *	15
55.09	480V REACTOR MOV BOARD 1B1-B COMPT 8B	VOLUME CONTROL TANK OUTLET ISLN VLV 1-LCV-062-133	GENERAL ELECTRIC	THED 135015WL *	15
55.13	480V REACTOR MOV BOARD 1B1-B COMPT 8C	CHARGING PUMP FLOW RWST VALVE 1-LCV-062-136	GENERAL ELECTRIC	THED 136015WL *	15
55.17	480V REACTOR MOV BOARD 1B1-B COMPT 10B	SIS BIT SHUTOFF VALVE 1-FCV-063-025	GENERAL ELECTRIC	THED 136015WL *	15
55.21	480V REACTOR MOV BOARD 1B1-B COMPT 11A	SIS BIT INLET SHUTOFF VALVE 1-FCV-063-040	GENERAL ELECTRIC	THED 136015WL *	15
55.25	480V REACTOR MOV BOARD 1B1-B COMPT 13A	CONTAINMENT SPRAY HEADER 1B ISLN VLV 1-FCV-072-002	GENERAL ELECTRIC	THED 136015WL *	15
55.29	480V REACTOR MOV BOARD 1B1-B COMPT 13B	CONTAINMENT SPRAY PUMP 1B RECIRC VLV 1-FCV-072-013	GENERAL ELECTRIC	THED 136015WL *	15
55.33	480V REACTOR MOV BOARD 1B1-B COMPT 14E	RHR PUMP 1B MINI FLOW VALVE 1-FCV-074-024	GENERAL ELECTRIC	THED 136015WL *	15
58.00	480V REACTOR MOV BOARD 1B2-B COMPT 2B	ERCW HEADER 1B ISLN VALVE 1-FCV-003-126B	GENERAL ELECTRIC	THED 130615WL *	15
58.04	480V REACTOR MOV BOARD 1B2-B COMPT 2C	ERCW HEADER 1B ISOLATION VALVE 1-FCV-003-126A	GENERAL ELECTRIC	THED 136015WL *	15
58.08	480V REACTOR MOV BOARD 1B2-B COMPT 2E	ANNULUS STANDPIPE ISLN VALVE 1-FCV-026-241	GENERAL ELECTRIC	THED 136015WL *	15
58.12	480V REACTOR MOV BOARD 1B2-B COMPT 4A	LOWER CONTAINMENT 1A CLRS DISCHARGE ISLN VLV 1-FCV-067-088	GENERAL ELECTRIC	THED 136015WL *	15
58.14	480V REACTOR MOV BOARD 1B2-B COMPT 4B	LOWER CONTAINMENT 1C CLR DISCHARGE ISLN VLV 1-FCV-067-096	GENERAL ELECTRIC	THED 136015WL *	15

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PKG NO.	BOARD AND COMPARTMENT	AFFECTED EMD DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
58.16	480V REACTOR MOV BOARD 1B2-B COMPT 4C	LOWER CONTAINMENT 1B CLR SUPPLY ISLN VLV 1-FCV-067-099	GENERAL ELECTRIC	THED 136015WL *	15
58.18	480V REACTOR MOV BOARD 1B2-B COMPT 4E	ANNULUS SPRINKLER ISLN VLV 1-FCV-026-244	GENERAL ELECTRIC	THED 136015WL *	15
58.22	480V REACTOR MOV BOARD 1B2-B COMPT 5A	LOWER CONTAINMENT 1B CLR DISCHARGE ISLN VLV 1-FCV-067-103	GENERAL ELECTRIC	THED 136015WL *	15
58.24	480V REACTOR MOV BOARD 1B2-B COMPT 5B	LOWER CONTAINMENT 1D CLR SUPPLY ISLN VLV 1-FCV-067-107	GENERAL ELECTRIC	THED 136015WL *	15
58.26	480V REACTOR MOV BOARD 1B2-B COMPT 5C	LOWER CONTAINMENT 1D CLR DISCHARGE ISLN VLV 1-FCV-067-111	GENERAL ELECTRIC	THED 136015WL *	15
58.32	480V REACTOR MOV BOARD 1B2-B COMPT 7A	UPPER CONTAINMENT VENT CLR 1A DISCHARGE ISLN VLV 1-FCV-067-131	GENERAL ELECTRIC	THED 136015WL *	15
58.36	480V REACTOR MOV BOARD 1B2-B COMPT 7B	UPPER CONTAINMENT VENT CLR 1C DISCHARGE ISLN VLV 1-FCV-067-134	GENERAL ELECTRIC	THED 136015WL *	15
58.38	480V REACTOR MOV BOARD 1B2-B COMPT 7C	UPPER CONTAINMENT VENT CLR 1B SUPPLY ISLN VLV 1-FCV-067-138	GENERAL ELECTRIC	THED 136015WL *	15
58.42	480V REACTOR MOV BOARD 1B2-B COMPT 8B	UPPER CONTAINMENT VENT CLR 1D SUPPLY ISLN VLV 1-FCV-067-141	GENERAL ELECTRIC	THED 136015WL *	15
58.52	480V REACTOR MOV BOARD 1B2-B COMPT 9B	UPPER CONTAINMENT VENT CLR 1B DISCHARGE ISLN VLV 1-FCV-067-297	GENERAL ELECTRIC	THED 136015WL *	15
58.56	480V REACTOR MOV BOARD 1B2-B COMPT 9C	UPPER CONTAINMENT VENT CLR 1D DISCHARGE ISLN VLV 1-FCV-067-298	GENERAL ELECTRIC	THED 136015WL *	15
58.60	480V REACTOR MOV BOARD 1B2-B COMPT 11B	ERCW HEADER 1B ISOLATION VALVE 1-FCV-003-179	GENERAL ELECTRIC	THED 136015WL *	15
58.62	480V REACTOR MOV BOARD 1B2-B COMPT 11E	ERCW HEADER 1B ISOLATION VALVE 1-FCV-003-179A	GENERAL ELECTRIC	THED 136015WL *	15

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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
58.66	480V REACTOR MOV BOARD 1B2-B COMPT 14C	RCP THERMAL BARRIER RETURN CONTAINMENT ISLN VLV 1-FCV-070-087	GENERAL ELECTRIC	THED 136015WL *	15
58.70	480V REACTOR MOV BOARD 1B2-B COMPT 15A	RCP OIL COOLER RETURN CONTAINMENT ISLN VLV 1-FCV-070-089	GENERAL ELECTRIC	THED 136015WL *	15
58.72	480V REACTOR MOV BOARD 1B2-B COMPT 15B	RCP THERMAL BARRIER CONTAINMENT ISLN VLV 1-FCV-070-134	GENERAL ELECTRIC	THED 136015WL *	15
58.74	480V REACTOR MOV BOARD 1B2-B COMPT 15C	RCP OIL COOLER HEADER CONTAINMENT ISLN VLV 1-FCV-070-140	GENERAL ELECTRIC	THED 136015WL *	15
58.76	480V REACTOR MOV BOARD 1B2-B COMPT 15E1	RCP THERMAL BARRIER RETURN CONTAINMENT ISLN VLV 1-FCV-070-087	GENERAL ELECTRIC	THED 136015WL *	15
58.78	480V REACTOR MOV BOARD 1B2-B COMPT 15E2	RCP THERMAL BARRIER CONTAINMENT ISLN VLV 1-FCV-070-134	GENERAL ELECTRIC	THED 136015WL *	15
58.82	480V REACTOR MOV BOARD 1B2-B COMPT 16C	STEAM GENERATOR FEEDWATER ISLN VALVE 1-FCV-003-047	GENERAL ELECTRIC	THED 136090WL *	90
58.94	480V REACTOR MOV BOARD 1B2-B COMPT 17A	STEAM GENERATOR FEEDWATER ISLN VALVE 1-FCV-003-100	GENERAL ELECTRIC	THED 136090WL *	90
61.01	480V REACTOR MOV BOARD 2A1-A COMPT 3A	SEAL FLOW ISOLATION VALVE 2-FCV-062-063	GENERAL ELECTRIC	THED 136015WL *	15
61.03	480V REACTOR MOV BOARD 2A1-A COMPT 3B	SEAL FLOW ISOLATION VALVE 2-FCV-062-090	GENERAL ELECTRIC	THED 136015WL *	15
61.05	480V REACTOR MOV BOARD 2A1-A COMPT 3E	VOLUME CONTROL TANK OUTLET ISOLATION VALVE 2-FCV-062-132	GENERAL ELECTRIC	THED 136015WL *	15
61.07	480V REACTOR MOV BOARD 2A1-A COMPT 4A	REFUELING WATER STORAGE TANK VALVE 2-FCV-062-135	GENERAL ELECTRIC	THED 136015WL *	15
61.09	480V REACTOR MOV BOARD 2A1-A COMPT 5B	CONTAINMENT SPRAY PUMP 2A-A FLOW CONTROL VLV 2-FCV-072-034	GENERAL ELECTRIC	THED 136015WL *	15

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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
61.11	480V REACTOR MOV BOARD 2A1-A COMPT 5C	CONTAINMENT SPRAY HEADER 2A ISOLATION VLV 2-FCV-072-039	GENERAL ELECTRIC	THED 136015WL *	15
61.13	480V REACTOR MOV BOARD 2A1-A COMPT 7C2	RHR PUMP 2A-A MINI FLOW VALVE 2-FCV-074-012	GENERAL ELECTRIC	THED 136015WL *	15
61.15	480V REACTOR MOV BOARD 2A1-A COMPT 12A	SIS BIT SHUTOFF VALVE 2-FCV-063-026	GENERAL ELECTRIC	THED 136015WL *	15
61.17	480V REACTOR MOV BOARD 2A1-A COMPT 12E	SIS BIT INLET SHUTOFF VALVE 2-FCV-063-039	GENERAL ELECTRIC	THED 136015WL *	15
64.02	480V REACTOR MOV BOARD 2A2-A COMPT 2B	ERCW HEADER 2A ISOLATION VALVE 2-FCV-003-116B	GENERAL ELECTRIC	THED 136015WL *	15
64.04	480V REACTOR MOV BOARD 2A2-A COMPT 2C	ERCW HEADER 2A ISOLATION VALVE 2-FCV-003-116A	GENERAL ELECTRIC	THED 136015WL *	15
64.06	480V REACTOR MOV BOARD 2A2-A COMPT 2E	ERCW HEADER 2A ISOLATION VALVE 2-FCV-003-136A	GENERAL ELECTRIC	THED 136015WL *	15
64.08	480V REACTOR MOV BOARD 2A2-A COMPT 3B	ERCW HEADER 2A ISOLATION VALVE 2-FCV-003-136B	GENERAL ELECTRIC	THED 136015WL *	15
64.10	480V REACTOR MOV BOARD 2A2-A COMPT 4A	LOWER CONTAINMENT 2A CLR SUPPLY ISLN VLV 2-FCV-067-083	GENERAL ELECTRIC	THED 136015WL *	15
64.12	480V REACTOR MOV BOARD 2A2-A COMPT 4B	LOWER CONTAINMENT 2A CLR DISCHARGE ISLN VLV 2-FCV-067-087	GENERAL ELECTRIC	THED 136015WL *	15
64.14	480V REACTOR MOV BOARD 2A2-A COMPT 4C	LOWER CONTAINMENT 2C CLR SUPPLY ISLN VLV 2-FCV-067-091	GENERAL ELECTRIC	THED 136015WL *	15
64.22	480V REACTOR MOV BOARD 2A2-A COMPT 5A	LOWER CONTAINMENT 2C CLR DISCHARGE ISLN VLV 2-FCV-067-095	GENERAL ELECTRIC	THED 136015WL *	15
64.24	480V REACTOR MOV BOARD 2A2-A COMPT 5B	LOWER CONTAINMENT 2B CLR DISCHARGE ISLN VLV 2-FCV-067-104	GENERAL ELECTRIC	THED 136015WL *	15
64.26	480V REACTOR MOV BOARD 2A2-A COMPT 5C	LOWER CONTAINMENT 2D CLR DISCHARGE ISLN VLV 2-FCV-067-112	GENERAL ELECTRIC	THED 136015WL *	15

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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
64.30	480V REACTOR MOV BOARD 2A2-A COMPT 7B	UPPER CONTAINMENT VENT CLR 2A SUPPLY ISLN VLV 2-FCV-067-130	GENERAL ELECTRIC	THED 136015WL *	15
64.34	480V REACTOR MOV BOARD 2A2-A COMPT 7C	UPPER CONTAINMENT VENT CLR 2C SUPPLY ISLN VLV 2-FCV-067-133	GENERAL ELECTRIC	THED 136015WL *	15
64.38	480V REACTOR MOV BOARD 2A2-A COMPT 7E	UPPER CONTAINMENT VENT CLR 2B DISCHARGE ISLN VLV 2-FCV-067-139	GENERAL ELECTRIC	THED 136015WL *	15
64.40	480V REACTOR MOV BOARD 2A2-A COMPT 8A	UPPER CONTAINMENT VENT CLR 2D DISCHARGE ISLN VLV 2-FCV-067-142	GENERAL ELECTRIC	THED 136015WL *	15
64.52	480V REACTOR MOV BOARD 2A2-A COMPT 10A	UPPER CONTAINMENT VENT CLR 2A DISCHARGE ISLN VLV 2-FCV-067-295	GENERAL ELECTRIC	THED 136015WL *	15
64.56	480V REACTOR MOV BOARD 2A2-A COMPT 10B	UPPER CONTAINMENT VENT CLR 2C DISCHARGE ISLN VLV 2-FCV-067-296	GENERAL ELECTRIC	THED 136015WL *	15
64.62	480V REACTOR MOV BOARD 2A2-A COMPT 13B	RCP SPRAY ISOLATION VALVE 2-FCV-026-243	GENERAL ELECTRIC	THED 136015WL *	15
64.72	480V REACTOR MOV BOARD 2A2-A COMPT 14B	EXCESS LETDOWN HTX CONTROL INLET VLV 2-FCV-070-143	GENERAL ELECTRIC	THED 136015WL *	15
64.76	480V REACTOR MOV BOARD 2A2-A COMPT 14C	RCP THERMAL BARRIER RETURN CONTAINMENT ISLN VLV 2-FCV-070-090	GENERAL ELECTRIC	THED 136015WL *	15
64.78	480V REACTOR MOV BOARD 2A2-A COMPT 14E1	RCP THERMAL BARRIER RETURN CONTAINMENT ISLN VLV 2-FCV-070-090	GENERAL ELECTRIC	THED 136015WL *	15
64.82	480V REACTOR MOV BOARD 2A2-A COMPT 15A	RCP OIL CLR RETURN CONTAINMENT ISLN VLV 2-FCV-070-092	GENERAL ELECTRIC	THED 136015WL *	15
64.84	480V REACTOR MOV BOARD 2A2-A COMPT 15E	CONTAINMENT STANDPIPE ISOLATION VALVE 2-FCV-026-240	GENERAL ELECTRIC	THED 136015WL *	15
64.86	480V REACTOR MOV BOARD 2A2-A COMPT 16B	STEAM GENERATOR FEEDWATER ISOLATION VLV 2-FCV-003-033	GENERAL ELECTRIC	THED 136090WL *	90



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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
64.92	480V REACTOR MOV BOARD 2A2-A COMPT 17C	STEAM GENERATOR FEEDWATER ISOLATION VLV 2-FCV-007-087	GENERAL ELECTRIC	THED 136090WL *	90
64.96	480V REACTOR MOV BOARD 2A2-A COMPT 18C	ANNULUS STANDPIPE ISOLATION VALVE 2-FCV-026-242	GENERAL ELECTRIC	THED 136015WL *	15
64.98	480V REACTOR MOV BOARD 2A2-A COMPT 19E	ANNULUS SPRINKLER ISOLATION VALVE 2-FCV-026-245	GENERAL ELECTRIC	THED 136015WL *	15
67.11	480V REACTOR MOV BOARD 2B1-B COMPT 7C	SEAL FLOW ISOLATION VALVE 2-FCV-062-061	GENERAL ELECTRIC	THED 136015WL *	15
67.15	480V REACTOR MOV BOARD 2B1-B COMPT 7E	CHARGING FLOW ISOLATION VALVE 2-FCV-062-091	GENERAL ELECTRIC	THED 136015WL *	15
67.19	480V REACTOR MOV BOARD 2B1-B COMPT 8B	VOLUME CONTROL TANK OUTLET ISOLATION VLV 2-FCV-062-133	GENERAL ELECTRIC	THED 136015WL *	15
67.23	480V REACTOR MOV BOARD 2B1-B COMPT 8C	VOLUME CONTROL TANK OUTLET ISOLATION VLV 2-FCV-062-136	GENERAL ELECTRIC	THED 136015WL *	15
67.27	480V REACTOR MOV BOARD 2B1-B COMPT 10B	SIS BIT SHUTOFF VALVE 2-FCV-063-025	GENERAL ELECTRIC	THED 136015WL *	15
67.31	480V REACTOR MOV BOARD 2B1-B COMPT 11A	SIS BIT INLET SHUTOFF VALVE 2-FCV-063-040	GENERAL ELECTRIC	THED 136015WL *	15
67.35	480V REACTOR MOV BOARD 2B1-B COMPT 13A	CONTAINMENT SPRAY HEADER 2B ISOLATION VLV 2-FCV-072-002	GENERAL ELECTRIC	THED 136015WL *	15
67.39	480V REACTOR MOV BOARD 2B1-B COMPT 13B	CONTAINMENT SPRAY PUMP 2B RECIRC FLOW VLV 2-FCV-072-013	GENERAL ELECTRIC	THED 136015WL *	15
67.47	480V REACTOR MOV BOARD 2B1-B COMPT 14E	RHR PUMP 2B-B MINI FLOW VALVE 2-FCV-074-024	GENERAL ELECTRIC	THED 136015WL *	15
68.00	480V REACTOR MOV BOARD 2B2-B COMPT 2B	ERCW HEADER 2B ISOLATION VALVE 2-FCV-003-126B	GENERAL ELECTRIC	THED 136015WL *	15
68.02	480V REACTOR MOV BOARD 2B2-B COMPT 2C	ERCW HEADER 2B ISOLATION VALVE 2-FCV-003-126A	GENERAL ELECTRIC	THED 136015WL *	15
68.04	480V REACTOR MOV BOARD 2B2-B COMPT 2E	ANNULUS STANDPIPE ISOLATION VALVE 2-FCV-026-241	GENERAL ELECTRIC	THED 136015WL *	15

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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
68.10	480V REACTOR MOV BOARD 2B2-B COMPT 4A	LOWER CONTAINMENT 2A CLR DISCHARGE ISLN VLV 2-FCV-067-088	GENERAL ELECTRIC	THED 136015WL *	15
68.12	480V REACTOR MOV BOARD 2B2-B COMPT 4B	LOWER CONTAINMENT 2B CLR DISCHARGE ISLN VLV 2-FCV-067-096	GENERAL ELECTRIC	THED 136015WL *	15
68.14	480V REACTOR MOV BOARD 2B2-B COMPT 4C	LOWER CONTAINMENT 2B CLR SUPPLY ISLN VLV 2-FCV-067-099	GENERAL ELECTRIC	THED 136015WL *	15
68.16	480V REACTOR MOV BOARD 2B2-B COMPT 4E	ANNULUS SPRINKLER ISOLATION VALVE 2-FCV-026-244	GENERAL ELECTRIC	THED 136015WL *	15
68.22	480V REACTOR MOV BOARD 2B2-B COMPT 5A	LOWER CONTAINMENT 2B CLR DISCHARGE ISLN VLV 2-FCV-067-103	GENERAL ELECTRIC	THED 136015WL *	15
68.26	480V REACTOR MOV BOARD 2B2-B COMPT 5B	LOWER CONTAINMENT 2D CLR SUPPLY ISLN VLV 2-FCV-067-107	GENERAL ELECTRIC	THED 136015WL *	15
68.28	480V REACTOR MOV BOARD 2B2-B COMPT 5C	LOWER CONTAINMENT 2D CLR DISCHARGE ISLN VLV 2-FCV-067-111	GENERAL ELECTRIC	THED 136015WL *	15
68.32	480V REACTOR MOV BOARD 2B2-B COMPT 7A	LOWER CONTAINMENT 2A CLR DISCHARGE ISLN VLV 2-FCV-067-131	GENERAL ELECTRIC	THED 136015WL *	15
68.36	480V REACTOR MOV BOARD 2B2-B COMPT 7B	UPPER CONTAINMENT CLR 2C DISCHARGE ISLN VLV 2-FCV-067-134	GENERAL ELECTRIC	THED 136015WL *	15
68.38	480V REACTOR MOV BOARD 2B2-B COMPT 7C	UPPER CONTAINMENT CLR 2B SUPPLY ISLN VLV 2-FCV-067-138	GENERAL ELECTRIC	THED 136015WL *	15
68.42	480V REACTOR MOV BOARD 2B2-B COMPT 8B	UPPER CONTAINMENT VENT CLR 2D SUPPLY ISLN VLV 2-FCV-067-141	GENERAL ELECTRIC	THED 136015WL *	15
68.4B	480V REACTOR MOV BOARD 2B2-B COMPT 8D	COMPONENT CLR HTX C DISCHARGE VLV TO HDR B 0-FCV-067-141	GENERAL ELECTRIC	THED 136015WL *	15
68.52	480V REACTOR MOV BOARD 2B2-B COMPT 9B	UPPER CONTAINMENT VENT CLR 2B ISOLATION VLV 2-FCV-067-297	GENERAL ELECTRIC	THED 136015WL *	15

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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
68.56	480V REACTOR MOV BOARD 2B2-B COMPT 9C	UPPER CONTAINMENT VENT CLR 2B DISCHARGE ISLN VLV 2-FCV-067-298	GENERAL ELECTRIC	THED 136015WL *	15
68.62	480V REACTOR MOV BOARD 2B2-B COMPT 11B	ERCW HEADER 2B ISOLATION VALVE 2-FCV-003-179B	GENERAL ELECTRIC	THED 136015WL *	15
68.66	480V REACTOR MOV BOARD 2B2-B COMPT 11E	ERCW HEADER 2B ISOLATION VALVE 2-FCV-003-179A	GENERAL ELECTRIC	THED 136015WL *	15
68.70	480V REACTOR MOV BOARD 2B2-B COMPT 14C	RCP THERMAL BARRIER RETURN CONTAINMENT ISLN VLV 2-FCV-070-087	GENERAL ELECTRIC	THED 136015WL *	15
68.82	480V REACTOR MOV BOARD 2B2-B COMPT 15A	RCP OIL COOLER RETURN CONTROL ISLN VLV 2-FCV-070-089	GENERAL ELECTRIC	THED 136015WL *	15
68.86	480V REACTOR MOV BOARD 2B2-B COMPT 15B	RCP THERMAL BARRIER CONTAINMENT ISLN VLV 2-FCV-070-134	GENERAL ELECTRIC	THED 136015WL *	15
68.88	480V REACTOR MOV BOARD 2B2-B COMPT 15C	RCP OIL CLR SUPPLY HDR CONTAINMENT ISLN VLV 2-FCV-070-140	GENERAL ELECTRIC	THED 136015WL *	15
68.90	480V REACTOR MOV BOARD 2B2-B COMPT 16A1	RCP THERMAL BARRIER RETURN CONTAINMENT ISLN VLV 2-FCV-070-087	GENERAL ELECTRIC	THED 136015WL *	15
68.92	480V REACTOR MOV BOARD 2B2-B COMPT 16A2	RCP THERMAL BARRIER CONTAINMENT ISLN VLV 2-FCV-070-134	GENERAL ELECTRIC	THED 136015WL *	15
68.96	480V REACTOR MOV BOARD 2B2-B COMPT 16C	STEAM GENERATOR FEEDWATER ISLN VLV 2-FCV-003-047	GENERAL ELECTRIC	THED 136090WL *	90
68.98	480V REACTOR MOV BOARD 2B2-B COMPT 17A	STEAM GENERATOR FEEDWATER ISLN VLV 2-FCV-003-100	GENERAL ELECTRIC	THED 136090WL *	90
80.01	120VAC VITAL INSTRUMENT POWER BOARD 2-11, BKR 24	NSSS AUX RELAY PNL 2-R-58, "C" BUS	HEINEMANN	CF2-251-1	15
80.02	120VAC VITAL INSTRUMENT POWER BOARD 2-1, BKR 23	SEPARATION AUX RELAY PNL 2-R-76, "A" BUS	HEINEMANN	CF2-251-1	15

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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
80.03	120VAC VITAL INSTRUMENT POWER BOARD 2-III, BKR 24	AFWP A PRESSURE CONTROL 2-PIC-3-122A	HEINEMANN	CF2-251-1	15
80.04	120VAC VITAL INSTRUMENT POWER BOARD 2-IV, BKR 25	NSSS AUX RELAY PANEL 2-R-55, "B" BUS	HEINEMANN	CF2-251-1	15
80.05	120VAC VITAL INSTRUMENT POWER BOARD 2-II, BKR 26	SEPARATION AUX RELAY PANEL 2-R-75, "B" BUS	HEINEMANN	CF2-251-1	15
80.06	125VDC VITAL BATTERY BOARD IV, PNL 3, BKR 318	BORIC ACID EVAPORATOR PACKAGE B, 0-L-1B	WESTINGHOUSE	HFB 2015	15
80.07	125VDC VITAL BATTERY BOARD IV, PNL 3, BKR 315	COMMON CONTROL & SERVICE AIR COMP ALT FDR	WESTINGHOUSE	HFB 2015	15
80.08	480V ERCW MCC 2A-A, COMPT 4A	ERCW PUMPING STATION DUPLEX SUMP PUMP 2A-A, PUMP A	WESTINGHOUSE	MCP 0358CR	7
80.09	480V ERCW MCC 2A-A, COMPT 4B	ERCW PUMPING STATION DUPLEX SUMP PUMP 2A-A, PUMP B	WESTINGHOUSE	MCP 0358CR	7
80.10	125VDC VITAL BATTERY BOARD IV, PNL 3, BKR 314	U2 GLAND STEAM SPILLOVER TO CONDENSER	WESTINGHOUSE	HFB 2015	15
80.11	125VDC VITAL BATTERY BOARD IV, PNL 3, BKR 317	U-2 ROD DRIVE PWR SUP SWGR BKR 2B, PNL 2-L-115B	WESTINGHOUSE	HFB 2015	15
80.12	480V DSL AUX BOARD 1A1-A, COMPT 6D	DSL GEN 1A-A MUFFLER EXHAUST FAN	GENERAL ELECTRIC	TED 136020WL	20
80.15	120VAC VITAL INSTRUMENT POWER BOARD 2-II, BKR 23	SEPARATION AUX RELAY PANEL 2-R-76, "B" BUS	HEINEMANN	CF2-251-1	15
80.17	125VDC VITAL BATTERY BOARD III, PNL 2, BKR 223	SPARE BKR	WESTINGHOUSE	HFB 2015	15
80.18	480V REACTOR VENT BOARD 2B-B, COMPT 1D2	INCORE FLUX DETECTOR DRIVE UNIT 2C	GENERAL ELECTRIC	THED 136020WL	20
80.19	480V C & A VENT BOARD 2A2-A, COMPT 1D1	480V BOARD ROOM 2A UNIT HTR	GENERAL ELECTRIC	THED 136020WL	20
80.21	480V ERCW MCC 2A-A, COMPT 4C	ERCW MCC 2A-A SUPPLY FAN 2A	WESTINGHOUSE	MCP 3150CR	15

SEJOYAH NUCLEAR PLANT  
MRCB 88-10 SUSPECT MOLDED-CASE CIRCUIT BREAKERS  
REVISION 2 - 8810REV3.DBF  
ENCLOSURE 1

PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
80.22	125VDC VITAL BATTERY BOARD III, PNL 2, BKR 224	AUX WASTE EVAPORATOR PANEL 0-L-105B	WESTINGHOUSE	HFB 2015	75
80.23	125VDC VITAL BATTERY BOARD III, PNL 3, BKR 315	U2 GEN AUX PANEL ANNUNCIATOR 2-L-39	WESTINGHOUSE	HFB 2015	15
80.24	480V REACTOR VENT BOARD 2A-A, COMPT 1E	INCORE FLUX DETECTOR DRIVE UNIT 2F	GENERAL ELECTRIC	THED 136020WL	20
80.25	480V DSL AUX BOARD 1A1-A, COMPT 50	DSL GEN BLDG SUMP PUMP A	GENERAL ELECTRIC	TED 136020WL	20
80.26	480V REACTOR MOV BOARD 2A2-A, COMPT 18B	LOOP 1 DEAERATION LINE VLV 2-FCV-3-191	GENERAL ELECTRIC	TED 136020WL	20
80.27	480V DSL AUX BOARD 2B1-B, COMPT 4C1	480V POWER OUTLETS	GENERAL ELECTRIC	THED 136100WL	100
80.28	125VDC VITAL BATTERY BOARD I, PNL 2, BKR 215	GAS WASTE DISPOSAL PANEL 0-L-2C	WESTINGHOUSE	HFB 2030	30
80.29	125VDC VITAL BATTERY BOARD II, PNL 3, BKR 315	COM CONT & SERV AIR COMPRESSOR-NORMAL FDR	WESTINGHOUSE	HFB 2015	15
80.31	480V REACTOR VENT BOARD 2B-B, COMPT 7E1	CONTROL BAY SUMP PUMP 2	GENERAL ELECTRIC	THED 136020WL	20
80.32	125VDC VITAL BATTERY BOARD I, PNL 0, BKR 001	125V BATTERY I OR V PERFORMANCE TEST TERMINALS	WESTINGHOUSE	HFA 2600	600
80.36	480V DSL AUX BOARD 2B2-B, COMPT 3A2	480V REPT(COOLING TUR BD & AEROW PMP STATION)	GENERAL ELECTRIC	THED 136100WL	100
80.38	480V CSA VENT BOARD 2B1-P, COMPT 6C	UNIT CONTROL ANNUNCIATION SYSTEM 3 KVA XFMR	GENERAL ELECTRIC	THED 136020WL	20
80.40	480V ERCW MCC 2B-B, COMPT 4A	PEDESTAL CRANE ERCW	WESTINGHOUSE	KS 3200	200
80.42	120VAC VITAL INSTRUMENT POWER BOARD 2-11, BKR 25	MSSS AUX RELAY RACK B	HEINEMANN	CF2-Z51-1	15

ENCLOSURE 2

List of Commitments

1. The installation location of any additional untraceable breakers will be determined by December 31, 1989.
2. In accordance with the bulletin requirements, all of the additional untraceable breakers will either be replaced or have a justification for continued operation in place by January 30, 1990.
3. The breakers listed in Enclosure 1 of this letter will be replaced in accordance with the schedule in Bulletin 88-10. Since the number is now greater than 75 per unit, one-half of the breakers for each unit will be replaced before startup after the Cycle 4 refueling outages, and one-half will be replaced before startup after the Cycle 5 refueling outages.