

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

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DEC 11 1990

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

Gentlemen:

In the Matter of)
Tennessee Valley Authority)

Docket No. 50-328

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

In response to Reporting Requirement 2 of the subject bulletin, the enclosure of this submittal provides a list of the molded-case circuit breakers replaced for Unit 2 before restart from the Unit 2 Cycle 4 refueling outage. As allowed by Action 5 of the bulletin, TVA has opted to replace untraceable breakers in lieu of testing, in accordance with Attachment 1 to NRC Bulletin 88-10. The replacement breakers meet the criteria of Action 7 of the bulletin and fulfill the requirement to replace one-half of the untraceable circuit breakers before start-up from the first refueling outage beginning after March 1, 1989.

No commitments are contained in this submittal. Please direct questions concerning this issue to Keith C. Weller at (615) 843-7527.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

R. H. Shell

E. G. Wallace, Manager
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Enclosure
cc: See page 2

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ENCLOSURE

UNTRACEABLE MOLDED-CASE CIRCUIT BREAKERS
REPLACED BEFORE RESTART FROM THE UNIT 2 CYCLE 4 REFUELING OUTAGE

SEQUOYAH NUCLEAR PLANT
NRCB 88-10 REPLACED MOLDED-CASE CIRCUIT BREAKERS
ENCLOSURE

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
7.10	480V DSL AUX BOARD 2A2-A, COMPT 60	DSL GEN 2A-A ROOM EXHAUST FAN 2-A	GENERAL ELECTRIC	TED 136050 *	50
16.40	480V C&A VENT BOARD 2B2-B COMPT 8E1	FIFTH VITAL BATTERY ROOM DUCT HEATER B	GENERAL ELECTRIC	THED 136050WL *	50
26.31	480V C&A VENT BOARD 2B1-B COMPT 8B	470V BD RM 2B A/C CONDENSER 2B-B	GENERAL ELECTRIC	TED 136040WL *	40
26.47	480V C&A VENT BOARD 2B1-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
31.20	480V DSL AUX BOARD 2A2-A COMPT 5D	DG 2A-A ROOM HEATER B	GENERAL ELECTRIC	TED 136020WL *	20
31.30	480V DSL AUX BOARD 2A2-A COMPT 1C2	SPACE HEATER	GENERAL ELECTRIC	TED 136020WL *	20
31.50	480V DSL AUX BOARD 2A2-A COMPT 6A	EMERGENCY DIESEL ENGINE HTX SUPPLY VLV 2-FCV-067-066	GENERAL ELECTRIC	TED 136020WL *	20
31.60	480V DSL AUX BOARD 2B2-B COMPT 6A	EMERGENCY DIESEL ENGINE HTX SUPPLY VLV 2-FCV-067-067	GENERAL ELECTRIC	TED 136020WL *	20
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-063-009B	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
33.19	480V REACTOR VENT BOARD 2A-A COMPT 4C	ICE CONDENSER FLOOR COOLING PUMP 2A	GENERAL ELECTRIC	TED 136050WL *	50

SEQUOYAH NUCLEAR PLANT
NRCB 88-10 REPLACED MOLDED-CASE CIRCUIT BREAKERS
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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
33.20	480V REACTOR VENT BOARD 2B-B COMPT 4C	ICE CONDENSER FLOOR COOLING PUMP 2B	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
35.01	480V ERCW MCC 2A-A COMPT 4DL	480V POWER RECEPTACLES	WESTINGHOUSE	FB 3100 *	100
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
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-003-116A	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

SEQUOYAH NUCLEAR PLANT
NRCB 88-10 REPLACED MOLDED-CASE CIRCUIT BREAKERS
ENCLOSURE

PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
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
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

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NRCB 88-10 REPLACED MOLDED-CASE CIRCUIT BREAKERS
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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
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
64.92	480V REACTOR MOV BOARD 2A2-A COMPT 17C	STEAM GENERATOR FEEDWATER ISOLATION VLV 2-FCV-003-087	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

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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
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
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

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NRCB 88-10 REPLACED MOLDED-CASE CIRCUIT BREAKERS
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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RAT ING
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
68.48	480V REACTOR MOV BOARD 2B2-B COMPT 8D	CONTAINMENT CLR HTX C DISCHARGE VLV 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
68.56	480V REACTOR MOV BOARD 2B2-B COMPT 9C	UPPER CONTAINMENT VENT CLR 2D 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
68.72	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

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MRCB 88-10 REPLACED MOLDED-CASE CIRCUIT BREAKERS
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PKG NO.	BOARD AND COMPARTMENT	AFFECTED END DEVICE	MANUFACTURER	MFR PART NO.	BKR RATING
68.92	480V REACTOR MOV BOARD 2B2-B COMPT 16A2	RCP THERMAL BARRIER CONTAINMENT ISLN VLV 2-FCV-070-134	GENERAL ELECTRIC	THED 136015ML *	15
68.96	480V REACTOR MOV BOARD 2B2-B COMPT 16C	STEAM GENERATOR FEEDWATER ISLN VLV 2-FCV-003-047	GENERAL ELECTRIC	THED 136090ML *	90
68.98	480V REACTOR MOV BOARD 2B2-B COMPT 17A	STEAM GENERATOR FEEDWATER ISLN VLV 2-FCV-003-100	GENERAL ELECTRIC	THED 13. 20ML *	90
80.10	125VDC VITAL BATTERY BOARD 1V, PNL 3, BKR 314	U2 GLAND STEAM SPILLOVER TO CONDENSER	WESTINGHOUSE	HFB 2015	15
80.25	480V DSL AUX BOARD 1A1-A, COMPT 5D	DSL GEN BLDG SUMP PUMP A	GENERAL ELECTRIC	TFD 136020ML	20