

**ELECTRICAL AND TEMPERATURE TEST REPORT
OF A 7.5 KVA CVS TRANSFORMER**

Sola Electric Catalog No. 23-28-275

For Use In

Vogtle Nuclear Power Generating Plant

Burke County, Georgia

Prepared By: Paul Georgian
Approved By: Gary Mager

Dated: May 22, 1986
Dated: May 22, 1986

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4A-4B	520/480/380	(Output Short Ckt.)		50	.. 17-18
5A-5B	380-520	100%	1.0 unity	50	.. 19-20
6A-6B	380	100%	0.9 lag.	40	.. 21-22
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	520/480/380	(Output Short Ckt.)		40	
8A-8B	380-520	100%	1.0 unity	40	.. 25-26

Units modified from the above tests by replacing the top cover plates without air holes with plates that have air holes.

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1.0 INTRODUCTION

This report was prepared by Sola Electric for Bechtel Power Corporation to provide electrical and temperature data in the transformer wiring compartment and on field-installed wires of a standard line 7.5 KVA CVS transformer, Sola Electric Catalog No. 23-28-275.

Test data is to be evaluated and used to provide sufficient evidence that the 23-28-275 test unit will produce equivalent temperatures in the wiring compartment and on field wires as the similar Class 1E Seismic Model CVS transformer (7.5 KVA), Sola Electric Catalog No. 923-28-275. A comparison chart lists the differences between each model.

Both models are currently installed at the Vogtle Nuclear Power Generating Plant. One (1) 23-28-275 unit and 50 feet of the field wiring cable have been sent to Sola Electric and will be used as the test unit for this report.

Test Unit Data

Catalog No. 23-28-275

Serial No. 1980F (80F)

Spec. No. X3AA04

P.O. Item No. 4

Equipment Tag No. 2-1807-Y3-RX1

Reference Nos. PAV3718 and PAV2-132

Cable Data

Three (3) insulated stranded conductors with outer jacket insulation. No. 6 AWG, CU cable, Code 83C, 7008868, The Okonite Co., PLT. #7, EP/HYP 1981 600V.

2.0 COMPARISON CHART

Comparison Between Cat. Nos. 23-28-275 and 923-28-275 (Comparison of Core/Coil Assemblies)

Top Level Catalog No.	Class 1E Seismic Unit Cat. No. 923-28-275	Tested Standard Unit Cat. No. 23-28-275
Electrical Ratings	Identical	Identical
Transformer C/C Assy. (T2) Transformer C/C No. (T1) (T3) Transformer C/C No. (See Note 1)	3 required 923-26-250-0E 923-26-250-1E	3 required 23-26-250-2E 23-26-250-3E
Lamination (Core) P/N Lamination Material (See Note 2)	11150-2 26 ga., M36, CRS Fully processed	11150-4 26 ga., M36, CRS Semi-processed AAS
Transformer Core Stack Size	4.69 inches	4.69 inches
Coil P/N used in C/C Assy. (T1) (T2) (T3) "A" Coil "B" Coil (See Note 3) "C" Coil	 23-26-250-A4 23-26-250-B3 23-26-250-C3	 23-26-250-A4 23-26-250-B5 23-26-250-C3
C/C Insulation Materials	Identical	Identical
C/C Impregnation	Identical	Identical
C/C AC Capacitors	Identical	Identical

Notes:

- (T2) C/C assembly is identical to the (T1) and (T3) assemblies except for the terminal block mounted in the (T2) wiring compartment.
- Laminations are identical except that -2 is a fully-processed material which has lower core loss and the c/c temperatures will be typically (5 to 10°C) cooler than the -4 lamination.
- The "B" coils have different coil magnet wire sizes as follows:
-B3 has size 9 AWG round copper and -B5 has 8 AWG round copper
-B3 coil temperatures will be typically (5 to 10°C) hotter than the -B5.

2.0 COMPARISON CHART (Cont.)

Completed Transformer Construction Comparison Data (Ref.: Assembly Drawings 23-28-275 and 923-28-275)

The overall transformer construction is identical for both units which includes the wiring compartment housings, covers, mounting channels, and terminal blocks except as follows:

4. The 23-28-275 uses one (1) wiring terminal block for both input and output terminations. The 923-28-275 uses two (2) terminal blocks, one for input and one for output wiring with a small metal barrier strip between them to separate the high and low voltage circuits.
5. The 923-28-275 has a rubber pad mounted underneath the AC capacitors.

3.0 TEST PROCEDURE

Transformer and cable are to be tested in a suitable environmental chamber at temperatures of 104°F (40°C) and 122°F (50°C). Temperatures will be measured with a suitable temperature-indicating meter with thermocouple wires attached to the surface of the components being measured. Thermocouple wires that are measuring the ambient temperatures are in free air and are not in contact with any surface.

Each test condition shall continue until such time as temperatures stabilize.

Transformer shall be mounted to simulate wall mounting with the wiring compartment orientated at the top with the input cable entering on the left side and the output cable entering on the right side of the unit.

Transformer Standard Ratings

Input Voltage Range: 380-520, 480 V nominal

Output Voltage: 120

Output Current: 6.25 amps

VA: 7500

Power Factor: Unity (1.0)

Ambient: 50°C

Tests will be performed under the following test conditions with the input/output electrical and temperature data recorded as appropriate for each test.

Test No.	1	2	3*	4	5	6*
Input Volts	380	520	520	380	520	520
Output Volts	120	120	Short Ckt.	120	120	Short Ckt.
Output Amps	62.5	62.5	Short Ckt.	62.5	62.5	Short Ckt.
Power Factor	Lagging	0.90	0.09	---	0.90	0.90
	Unity	1.0	1.0	---	1.0	1.0
Ambient Temp.	50°C	50°C	50°C	40°C	40°C	40°C

*Short Circuit: Temperatures will be measured at 520 V and the input/output currents will be measured at 520/480/380 V.

Additional test conditions will be performed if deemed necessary.

4.0 SUMMARY

Test unit Catalog No. 23-28-275 and the similar Class 1E Seismic Unit Catalog No. 923-28-275 are electrically and mechanically identical except as noted in the comparison chart on page 2. The temperature measurements would be slightly cooler on the 923-28-275 unit due to the lamination core material as described in Note 2 of the comparison chart.

Unity power factor tests generated higher temperatures than the 0.9 lagging power factor tests.

Tests were conducted at the lower (380 V) and higher (520 V) input voltage range limits because these are points which will see the highest temperatures at certain conditions. Low line has the highest primary current, high line has the highest capacitor current under load and the highest output short circuit current.

The summary test log sheets on pages 6-9 list the final test results of each test condition.

Thermocouple nos. 16 and 20 are live electrical conductor strands and unit power must be turned off to avoid being shocked. Subsequently, temperatures are lower than the conductor jacket temperatures nos. 15 and 19.

Test conditions 2A/2B through 8A/8B are the normal unit construction with no air holes in the top cover plates (ref.: photographs on page 37). Wiring compartment temperatures are above 90°C (194°F). Additional tests 9A/9B through 13A/13B were conducted with air vent holes in cover plates which helps reduce the wiring compartment temperatures about 6-10°C.

SOLA ELECTRIC TEST REPORT

C/C Assm. No.: 1X 23-26-250-2E
 Capacitors: 7X 8.0MFD. @ 660VAC (C/E ASSM)
 Laminations: 11150-4
 Stack Size: 4.69
 Sheet Size: GAP
 Rev.: 050

Type Test: TEMPERATURE TEST ON COMPLETE UNIT
 Tested By: MARSHALL UHL
 Approved By: PAUL GEORGIAN
 Dates: (MAY 16, 1986 Ref)

Customer: METRO POWER / BECHTEL POWER
 Type of Units: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980F

Equip. TAG. NO. 2-1807-Y3-RX1
 GEORGIA POWER CO.
 VOGTLE ELECTRIC GENERATING PLANT

SUMMARY TEST LOG: (FINAL RESULTS OF EACH TEST CONDITION)

TEST LINE NO.	PRIMARY (HI-114)				SECONDARY (X1-X2)				CAPACITOR	TIME	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (OC)											
	Volts	Amps	Watts	Power Factor	Volts	Amps	Watts	Power Factor			1 $\frac{1}{2}$	2 $\frac{1}{2}$	3 $\frac{1}{2}$	4	5	6	7	8	9	10	11	
(2-4)	(100% LOAD) (0.9 LAG. P.F.) (50°C AMBIENT) (ORIGINAL TOP COVER PLATE WITHOUT AIR HOLES)																					
16	383.3	18.55	7075	112.59	62.6	6400	.905	2.04%	555	11.8	4:00	50	49	109	142	140	136	136	144	126	125	71
35	519.4	14.65	7290	113.92	63.2	6520	.906				2:00	51	51	117	142	139	140	150	160	140	136	74
51	521.0	18.60	910	219	100.9	(SHORT CIRCUIT)		88.2	2.07		11:30	50	49	112	154	157	177	160	199	133	105	71
(5)	(100% LOAD) (UNITY (40) P.F.) (50°C AMBIENT)																					
71	380.6	21.7	8085	117.96	61.8	7216	1.0	1.83%	573	12.33	11:00	48	47	118	164	162	152	157	172	140	134	73
81	521.7	16.7	8100	117.34	61.0	7140	1.0	3.20%	605	13.98	4:00	48	46	124	136	152	150	170	187	152	146	76
(6-7)	(100% LOAD) (0.9 P.F.) (40°C AMBIENT)																					
101	381.1	18.85	7140	112.34	63.8	6440	.898	2.15%	564	10.98	4:00	41	40	100	134	132	128	127	134	116	114	61
115	523.2	15.0	7460	113.93	64.8	6660	.902	2.40%	565	10.95	11:30	42	41	100	135	132	134	142	152	132	128	65
124	524.1	18.65	905	220	102.7	(SHORT CIRCUIT)		84.0	2.09		3:30	44	43	102	145	148	169	152	192	125	97	65
(8-10)	(100% LOAD) (UNITY (1.0) P.F.) (40°C AMBIENT)																					
128	382.4	22.05	8255	118.20	62.4	7380	1.0	1.83%	587	11.26	1:10	40	38	110	157	155	146	150	165	132	126	65
142	526.3	17.25	8415	117.71	63.2	7420	1.0	3.05%	632	11.06	3:30	39	37	117	150	147	145	164	182	145	138	67
(9-10)	(100% LOAD) (0.9 P.F.) (50°C AMBIENT) (NEW COVER TOP WITH AIR VENT HOLES) (REF. LINES 16, 35, 51) (WITHOUT HOLES)																					
153	374.6	19.35	7185	112.82	62.0	6460	.923	2.08%	563	10.88	8:05	52	50	108	145	142	133	136	144	124	122	75
163	527.7	15.10	7545	114.41	62.8	6680	.929	2.53%	617	10.97	12:30	50	48	113	140	136	134	148	157	136	131	74
180	520.4	18.35	871	216	101.8	(SHORT CIRCUIT)		87	2.3		5:00	50	49	106	147	148	165	153	191	126	98	73

SOLA ELECTRIC TEST REPORT

Customer: METRO POWER / DECHTEL POWER
Type of Units: CVS TRANSFORMER
Catalog No.: 23-28-275 (SPECIAL)
Serial No.: 1980 F
EQUIP. TAG. NO. 2-1807-V3-RX1
GEORGIA POWER CO.
VOGTLE ELECTRIC GENERATING PLANT

Type Tests: TEMPERATURE TEST ON COMPLETE UNIT
Tested By: MARSHALL UHL
Approved By: PAUL GEORGIAN
Date: (MAY 16, 1986 REF)
Freq. Tested At: 60 HZ.

C/C Assm. No.: 1X 23-26-250-2E
Capacitors: 7X8.0MFD @ 660VAC (EACH C/C ASSEMBLY)
Laminations: 11150-4
Stack Size: 4.69
Sheet Size: 0.50
Rev.:
Summary Test Log: FINAL RESULTS OF EACH TEST CONDITION (ORIGINAL TOP COVER PLATE WITHOUT AIR VENT HOLES)

TEST LINE NO.	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (°C)												REMARKS					
	128	13	14	15	16	17	18	19	20	21	22	23		24	25	26	27	28
(TEST 2-4)	(100% LOAD) (0.9 LAG P.F.) (50°C AMB) (ORIGINAL TOP COVER PLATE WITHOUT AIR HOLES)																	
16	99	100	103	101	102	109	106	101	102	99	93	98	101					
35	103	105	108	107	108	116	113	106	108	101	95	105	107					
51	106	107	114	111	123	127	137	130	112	123	95	91	116					
(TEST 5)	(100% LOAD) (UNITY (1.0) P.F.) (50°C AMB)																	
71	108	110	114	-	109	109	119	-	111	112	104	99	110	109	129			116
81	110	112	117	114	113	113	123	119	114	116	105	98	113	112	131		113	122
(TEST 6-7)	(100% LOAD) (0.9 P.F.) (40°C AMB)																	
101	90	91	95	94	92	93	101	98	92	94	89	84	87	90	106	93	96	92
115	97	97	101	-	100	100	108	-	99	101	94	87	97	98	114	103	99	103
124	99	100	107	104	116	119	132	127	106	117	86	83	107	119	124	106	91	105
(TEST 8)	(100% LOAD) (UNITY (1.0) P.F.) (40°C AMB)																	
128	101	102	107	-	101	101	111	-	104	105	96	91	100	100	121	108	104	106
142	104	105	111	108	106	105	115	112	108	109	99	92	106	104	124	113	106	113
(TEST 9-10)	(100% LOAD) (0.9 P.F.) (50°C AMB) (NEW COVER PLATE WITH AIR HOLES)																	
153	90	93	97	-	93	93	104	-	94	96	89	87	86	91	90	91	93	85
163	91	93	97	90	95	95	107	103	95	98	88	85	89	93	87	92	93	86
180	91	93	99		107	110	124		97	106	82	82	94	109	89	92	84	86

SOLA ELECTRIC TEST REPORT

C/C Assm. No.: 1X 23-26-250-2E
 Type Test: TEMPERATURE TEST ON COMPLETE UNIT
 Customer: METRO POWER / BECHTEL POWER
 Type of Units: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980F
 Equip. TAG. NO. 2-1807-Y3-RX1
 GEORGIA POWER CO.
 VOGTLE ELECTRIC GENERATING PLANT

Tested By: MARSHALL UHL
 Approved By: PAUL GERBMAN
 Date: (MAY 16, 1986 REF)
 Freq. Tested At: 60 HZ

Stack Size: 4.69
 Shaft Size: 6.50
 Rev.:
 SUMMARY TEST LOG: (FINAL RESULTS OF EACH TEST CONDITION) (NEW TOP COVER PLATE WITH AIR VENT HOLES)

TEST LINE NO.	PRIMARY (HI-14)			SECONDARY (X1-X2)				CAPACITOR	TIME	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (OC)												
	Volts	Amps	Watts	Volts	Amps	Watts	Power Factor			1	2	3	4	5	6	7	8	9	10	11		
(TEST 9-10)	(100% LOAD) (0.9 P.F.) (50°C AMB) (NEW TOP COVER PLATE WITH AIR VENT HOLES) (REF. LINES 16, 35, 51) (WITHOUT HOLES)																					
153	379.6	19.35	7185	112.82	62.0	6460	723	2.08%	563	10.88	8:05 AM	52	50	108	145	142	133	136	144	124	122	75
163	527.7	15.10	7545	114.41	62.8	6680	929	2.33%	617	10.97	12:30	50	48	113	140	136	134	148	157	136	131	74
180	520.4	18.35	871	2.16	101.8	(SHORT CIRCUIT)			87	2.3	5:00	50	49	106	147	148	165	153	191	126	98	73
(TEST 11-12)	(100% LOAD) (UNITY (1.0) P.F.) (40°C AMB) (COVER PLATE WITH AIR VENT HOLES) (REF. LINES 128, 142) (WITHOUT HOLES)																					
223	379.1	22.25	8235	118.18	62.6	7360	1.0	1.88%	571	12.31	2:45	40	39	104	152	149	136	142	157	124	118	64
202	478.6	17.95	8325	118.74	62.8	7420	1.0	2.04%	598	13.71	8:30 AM	42	42	108	142	138	133	153	169	133	127	66
196	519.0	17.15	8340	118.13	62.6	7400	1.0	2.80%	604	13.98	10:00	41	40	107	140	135	130	153	170	134	128	64
(TEST 13)	(OUTPUT SHORT CIRCUIT) (40°C AMB) (COVER PLATE WITH AIR VENT HOLES) (REF. LINES 142, 124) (WITHOUT HOLES)																					
233	520.2	17.15	8315	118.07	62.4	7380	1.0	3.15	632	11.19	11:00 AM	42	41	106	140	136	131	153	170	135	128	66
241	517.3	18.10	895	2.12	102.2	(SHORT CIRCUIT)			81.8	2.08	2:45	42	41	95	136	137	155	141	180	115	87	62
248	480.5	15.20	700	1.94	95.0	(SHORT CIRCUIT)			74.3	1.97	5:45	42	41	89	120	121	139	162	107	82	59	

SECTION 4.1
SHEET 54 OF 54

Customer: METRO POWER / DECHTEL POWER
Type of Units: CVS TRANSFORMER
Catalog No.: 23-28-275 (SPECIAL)
Serial No.: 1980 F
EQUIP. TAG. NO. 2-1807-V3-RX1
GEORGIA POWER CO.
VOGTLE ELECTRIC GENERATING PLANT

SOLA ELECTRIC TEST REPORT

Type Test: TEMPERATURE TEST ON COMPLETE UNIT
Tested By: MARSHALL WHL
Approved By: PAUL GEORGIAN
Date: (MAY 16, 1986 REF.)
Freq. Tested At: 60 HZ.
SUMMARY TEST LOG: (FINAL RESULTS OF EACH TEST CONDITION WITH AIR VENT HOLES)

C/C Assm. No.: 1X 23-26-250-2E
Capacitors: 7X 8.0 MFD @ 660 VAC (EACH C/C ASSEM.)
Laminations: 11150-4
Stack Size: 4.69
Sheet Size: 0.50
Rev.:
THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (OC)

TEST LINE NO.	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	REMARKS
(TEST 9-10)	103	90	93	97	—	93	93	104	—	94	96	89	87	86	91	90	91	93	85	(REF. LINES 16, 35, 57) WITH OUT HOLES
153	107	91	93	97	90	95	95	107	103	95	98	88	85	89	93	87	92	93	86	(INPUT V) 374.6
163	112	91	93	99	—	107	110	124	—	97	106	82	82	94	109	89	92	84	86	(520.0V) (SHORT CIR.)
180	(TEST 11-12)	106	84	86	92	91	88	87	99	95	91	82	79	85	86	72	86	86	78	(REF. LINES 123, 124) WITH OUT HOLES
223	106	84	87	92	91	90	90	102	98	90	93	81	78	86	88	72	87	85	81	(INPUT V) 379.1
202	196	107	84	86	90	89	88	101	98	88	92	78	76	86	87	67	87	83	80	(MOM. V) 478.6
(TEST 13)	(OUTPUT SHORT CIRCUIT) (40°C AMB.) (NEW COVER PLATE WITH AIR HOLES)	108	85	87	92	91	89	102	96	90	93	80	78	86	88	71	88	86	81	(REF. LINES 142, 124) WITH OUT HOLES
233	104	82	84	89	87	99	101	114	104	88	98	73	72	87	101	76	83	75	77	(INPUT V) 520.2
241	96	76	78	83	80	92	94	106	100	82	91	68	67	81	93	71	78	71	73	(517.2) (SHORT CIRCUIT)
248																				(480.3 NOM) (SHORT CIRCUIT)

4.2 Thermocouple Locations

No.	Thermocouple Locations On Unit
1	Chamber Ambient - Front Left Side of Unit
2	Chamber Ambient - Front Right Side of Unit
3	(T2) Center Transformer Core - Outer Surface, Left Side
4	(T2) Transformer "A" Coil Winding #1 (G3) Surface
5	(T2) Transformer "A" Coil Winding #2 (H3) Surface
6	(T2) Transformer "A" Coil Winding #4 (R31) (X1) Surface
7	(T2) Transformer "B" Coil Winding #5 Surface
8	(T2) Transformer "B" Coil Winding #6 Surface
9	(T2) Transformer "B" Coil Winding #7 Surface
10	(T2) Transformer "C" Coil Winding #8 Surface
11	(T2) Transformer AC Caparitor Can Surface
12	(T2) Transformer Wiring Compartment Ambient - In Center of Compartment
13	(3-Conductor Cable) Input Cable Outer Jacket Surface
14	Input Cable - Inside Cable Between Jacket and Conductor
15	Input Cable - (H1) Conductor Insulation Surface
16	Input Cable - (H1) Conductor Internal Wire Strands
17	(3-Conductor Cable) Output Cable Outer Jacket Surface
18	Output Cable Inside Cable Between Jacket and Conductors
19	Output Cable - (X2) Conductor Insulation Surface
20	Output Cable - (X2) Conductor Internal Wire Strands
21	(T2) Wiring Compartment Main Terminal Block Surface by (H1) Terminal
22	(T2) Wiring Compartment Main Terminal Block Surface by (X2) Terminal
23	(T1) Left Transformer Compartment Ambient (Above Cable)
24	(T1) Transformer Input Cable Outer Jacket Surface
25	(T3) Right Transformer Compartment Ambient (Above Cable)
26	(T3) Transformer Output Cable Outer Jacket Surface
27	(T2) Wiring Compartment Ambient Below Input Cable
28	(T2) Wiring Compartment Ambient Above Input Cable
29	(T1) Compartment Ambient - In Center of Compartments
30	(T3) Compartment Ambient - In Center of Compartments

SOLA ELECTRIC TEST REPORT

TEST SHEET 1 OF

C/C Assem. No.: 1X 23-26-250-2E
 2X 23-26-250-3E
 Capacitors: 7X 8.0 MFD. @ 660VAC (EACH ASSEM)
 Lamination: 11150-4
 Stack Size: 4.69
 Shunt Size: .050
 Rev.:
 Type Test: TEMPERATURE TEST ON COMPLETE UNIT
 Tested By: MARSHALL UHL
 Approved By: PAUL GEURGANIAN
 Date: APRIL 14, 1986
 Freq. Tested At: 60 HZ.

Customer: METRO POWER / BECHTEL POWER
 Type of Unit: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980F
 EQUIP. TAG. NO. 2-1807-Y3-RX1
 GEORGIA POWER CO.
 VOGTLE ELECTRIC GENERATING PLANT

TEST CONDITION: PRELIMINARY TEST ELECTRICAL DATA (100% LOAD @ UNITY 1.0 P.F. § 0.9 P.F.)

TEST LINE NO.	PRIMARY (HI-14)			SECONDARY (XI-X2)				CAPACITOR		TIME	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (OC)												
	Volts	Amps	Watts	Volts	Amps	Watts	POWER FACTOR (%)	VAR-MONICS (%)	Volts		Amps	1	2	3	4	5	6	7	8	9	10	11	
1											CHAMBER AMBIENT												
2	380	21.95	8210	120.16	62.0	7300	1.0	1.85	598	11.49	27	27											
3	480	17.7	8325	120.77	62.0	7440	1.0	2.08	634	11.44	27	27											
4	520	16.9	8265	120.11	61.6	7360	1.0	2.9	642	11.33	27	27											
5	520	2.55	757	119.07	0	0	0	5.0	658	11.31	27	27											
6																							
7																							
8	380	19.0	7605	114.08	63.4	6440	.890	2.13	572	11.21	27	27											
9	480	15.6	7480	115.94	64.4	6660	.892	1.89	611	11.37	27	27											
10	520	15.0	7500	115.67	64.2	6740	.907	2.26	622	11.31	27	27											
11																							
12																							

(NOMINAL RATINGS)
 120.0 62.5 7500
 UNITY 1.0
 LAG 62.5 6750 0.90

PRELIMINARY ELECTRICAL TESTS OF UNIT BEFORE HEAT TEST AT 50°C AMBIENT (100% P.F.) (90% P.F.)

SOLA ELECTRIC TEST REPORT

TEST SHEET **2B** OF --

C/C Assem. No.: 1X 23-26-250-2E
2X 23-26-250-3E

Type Test: TEMPERATURE TEST ON COMPLETE UNIT

Customer: METRO POWER / BECHTEL POWER

Capacitors: 7X 8.0MFD. @ 660 VAC (EACH ASSEM.)

Tested By: Marshall Uhl

Type of Unit: CVS TRANSFORMER

Lamination: 1150-4

Approved By: PAUL GEORGIN

Catalog No.: 23-28-275 (SPECIAL)

Stack Size: 4.69

Date: April 15, 1986

Serial No.: 1980F

Rea.: Rev.:

Freq. Tested At: 60 HZ.

EQUIP. TAG. NO. 2-1807-Y3-RX1
GEORGIA POWER CO.
VOGTLE ELECTRIC GENERATING PLANT

TEST CONDITION:

TEST LINE NO.	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (°C)																REMARKS
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		
1	55	53	53	54	—	57	57	63	—	54	57	55	53	57	61	SEE LINE NO. 21 FOR TEMPS. BEFORE INPUT POWER WAS APPLIED.	
2	69	62	63	66	—	69	70	77	—	65	71	66	61	68	71		
3	77	68	69	72	—	75	75	82	—	71	76	72	66	74	77		
4	88	76	77	80	—	81	82	89	—	79	83	80	73	81	84		
5	94	81	82	86	—	86	87	95	—	84	88	85	78	86	88		
6	97	85	86	90	—	89	91	98	—	88	92	88	82	89	92		
7	99	89	90	93	—	93	94	101	—	92	94	91	85	90	94		
8	101	91	92	95	—	95	96	103	—	94	96	93	87	93	96		
9	102	93	95	97	—	97	97	104	—	96	98	95	89	94	97		
10	103	94	96	99	—	98	98	105	—	97	99	96	90	95	98		
11	105	96	97	100	—	99	100	107	—	99	101	98	91	96	99		
12	105	97	98	101	—	94	96	108	—	99	101	98	92	96	99		
13	107	98	99	102	—	101	101	109	—	100	102	99	93	98	100		
14	107	98	100	103	—	101	102	110	—	101	103	100	93	98	101		
15	107	99	100	103	—	101	102	109	—	101	102	99	93	98	101		
16	107	99	100	103	103	101	102	109	106	101	102	99	93	98	101		
17																	
18																	
19																	
20																	
21	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	(Final Temps)	

NOTE: UNIT WAS PRE-CONDITIONED AT 50°C AMBIENT FOR 18 HOURS BEFORE INPUT VOLTAGE AND LOAD WERE APPLIED.

NOTE: NO. 16 AND NO. 20 ARE LIVE CONDUCTOR STRANDS. UNIT POWER IS TURNED OFF TO AVOID ELECTRICAL SHOCK AND MEASUREMENTS ARE TAKEN WITH IN 2-3 MINUTE S.

SOLA ELECTRIC TEST REPORT

TEST SHEET 3A OF

C/C Assem. No.: 1X 23-26-250-2E
 Type Test: TEMPERATURE TEST ON COMPLETE UNIT
 Test: TEMPERATURE TEST ON COMPLETE UNIT
 Capacitors: 7X 8.0 MFD. @ 660 VAC (C/C ASSEM)
 Tested By: MARSHALL UHL
 Lamination: 11150-4
 Approved By: PAUL GEORGIAN
 Stack Size: 4.69
 Shunt Size: .050
 Date: 4-16-86
 Rev.:
 Freq. Tested At: 60 HZ.

Customer: METRO POWER / BECHTEL POWER
 Type of Unit: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980F
 EQUIP. TAG. NO. 2-1807-Y3-RX1
 GEORGIA POWER CO.
 VOGTLE ELECTRIC GENERATING PLANT

TEST CONDITION: (100% LOAD) (0.9 LAG P.F.) (520V. INPUT) (50°C. AMBI)

TEST LINE NO.	PRIMARY (HI-14)			SECONDARY (X1-X2)				CAPACITOR	TIME	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (OC)												
	Volts	Amps	Watts	Volts	Amps	Watts	POWER FACTOR			MONICS	1	2	3	4	5	6	7	8	9	10	11	
22	377.0	18.7	7015	112.36	62.4	6300	.898	2.05 ^b	553	11.7	8:00pm	50	49	109	143	141	136	143	125	123	70	
24	(UNIT RAN OVERNIGHT AT 330V. INPUT)											(INPUT VOLTS INCREASED TO 520 VOLTS)										
25	519.6	14.70	7335	114.05	63.2	6400	.887	2.41	543	13.2	9:00	50	49	109	139	137	137	146	128	126	70	
26	523.6	14.90	7360	114.04	63.4	6480	.896				9:30	49	48	110	136	134	135	142	131	129	70	
27	518.1	14.70	7340	114.01	63.2	6520	.905				10:00	50	49	112	136	134	136	144	134	132	71	
28	521.2	14.75	7315	113.98	63.2	6540	.908				10:30	50	49	113	138	135	136	146	136	133	73	
29	519.0	14.70	7285	113.97	63.2	6540	.908				11:00	51	50	114	139	136	138	147	137	134	72	
30	521.2	14.65	7290	113.92	63.2	6540	.908				11:30	50	49	115	140	137	138	148	138	135	72	
31	521.4	14.75	7325	113.96	63.2	6400	.889				12:00pm	50	49	116	140	137	139	149	158	138	72	
32	520.8	14.75	7310	113.94	63.2	6400	.889				12:30pm	50	49	116	140	137	139	149	158	138	73	
33	518.4	14.65	7300	113.95	63.2	6380	.886				1:00	51	50	116	141	138	139	150	159	139	73	
34	517.3	14.65	7285	113.93	63.2	6520	.905				1:30	50	49	117	141	138	140	150	159	139	74	
35	519.4	14.65	7290	113.92	63.2	6520	.906				2:00	51	51	117	142	139	140	150	160	140	74	
36																						
37	481.4	15.30	7315	114.22	63.4	6420	.914	2.00	586	18.90	2:10											
38	382.0	18.50	7050	112.53	62.4	6180	.880	2.07	555	11.81	2:15											
39																						
40																						
41																						
42																						

(TESTS CONTINUED FOR SHORT CIRCUIT TEST ON SHEETS 4A/4B)

SOLA ELECTRIC TEST REPORT

TEST SHEET 3B OF _____

Customer: METRO POWER / BECHTEL POWER
 Type of Units: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980 F
 EQUIP. TAG. NO. 2-1807-YB-RX1
GEORGIA POWER CO.
VOGTLE ELECTRIC GENERATING PLANT

C/C Assm. No.: 1X 23-26-250-2E
 Type Test: TEMPERATURE TEST ON COMPLETE UNIT
 Tested By: MARSHALL UHL
 Approved By: PAUL GERBELIAN
 Date: 4-16-86
 Freq. Tested At: 60 HZ.
 TEST CONDITION: (100% LOAD) (0.9 LAB. P.F.) (570V. INAUT) (50°C AMB)

Capacitors: 7X 8.0 MFD. @ 660 VAC (EACH C/C ASSEM.)
 Lamination: 11150-4
 Stack Size: 4.69 Shunt Size: 0.50
 Res.: _____ Rev.: _____

TEST LINE NO.	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (°C)																REMARKS
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		
22	106	98	100	102	—	96	97	105	—	101	102	99	93	97	100	(FINAL OVERNIGHT TEMPS)	
23	107	97	99	101	—	98	98	107	—	99	100	97	92	96	98		
24	110	99	99	102	—	98	101	110	—	99	103	98	91	98	101		
25	113	99	101	104	—	103	103	112	—	102	104	98	92	101	103		
26	116	100	102	106	—	104	105	113	—	104	106	99	93	102	104		
27	116	101	103	106	—	105	105	114	—	104	106	99	94	102	105		
28	116	102	103	107	—	105	106	114	—	105	107	99	94	103	105		
29	116	102	104	107	—	105	106	114	—	105	107	100	94	103	105		
30	116	102	104	107	—	106	106	114	—	105	107	99	94	103	106		
31	116	102	104	107	—	106	106	114	—	105	108	100	94	103	106		
32	117	103	104	108	—	107	107	115	—	106	107	100	95	104	107		
33	118	103	105	108	108	107	108	116	113	106	108	101	95	105	107	(FINAL TEMPS)	

SOLA ELECTRIC TEST REPORT

TEST SHEET 4A OF

C/C Assem. No.: 1X 23-26-250-2E
2X 23-26-250-3E

Type Test: TEMPERATURE TEST ON COMPLETE UNIT

Customer: METRO POWER/BECHTEL POWER

Capacitors: 7X 8.0 MFD. @ 660VAC (C/E ASSEMB)

Tested By: MARSHALL UHL

Type of Unit: CVS TRANSFORMER

Lamination: 11150-4

Approved By: PAUL GERRIGAN

Catalog No.: 23-28-275 (SPECIAL)

Stack Size: 4.69 Shunt Size: 0.50

Date: 4-17-86

Serial No.: 1980F

Res.: Rev.:

Freq. Tested At: 60 HZ.

EQUIP. TAG. NO. 2-1807-Y3-RX1
 GEORGIA POWER CO.
 VOLTGE ELECTRIC GENERATING PLANT

TEST CONDITION: (OUTPUT SHORT CIRCUIT) (520/480/380V INPUT) (50°C AMB)

TEST LINE NO.	PRIMARY (HI-H4)			SECONDARY (XI-X2)				CAPACITOR	TIME	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (OC)													
	Volts	Amps	Watts	Volts	Amps	Watts	POWER FACTOR			HAR-MONICS	Volts	Amps	1	2	3	4	5	6	7	8	9	10	11
43																							
44	522.0	14.75	7300	113.79	63.2	6520	907	2.63	592	13.28	8:30A	50	49	117	142	139	140	150	159	139	136	72	
45											8:35A												
46	5200	10.25	885	2.58	100.6	240	5/c				9:00	51	51	114	148	149	171	152	187	130	112	73	
47	522.7	19.0	970	2.17	101.4						9:30	51	50	112	149	150	171	153	187	129	107	73	
48	522.7	18.75	915	2.20	101.2						10:00	50	49	112	154	156	176	158	198	132	105	71	
49	522.2	18.60	960	2.19	101.1						10:30	51	50	111	154	156	177	159	199	132	105	71	
50	522.3	18.75	950	2.19	100.9						11:00	51	51	111	154	156	177	159	199	132	105	71	
51	521.0	18.60	910	2.19	100.9		5/c		88.2	2.07	11:30	50	49	112	154	157	177	160	199	133	105	71	
52																							
53	487.8	15.6	780	1.99	93.6		5/c		82.0	1.93	11:40												
54	381.5	11.0	460	1.53	72.6		5/c		63.7	1.46	11:50												
55																							
56																							
57																							
58																							
59																							
60																							
61																							
62																							
63																							

(TEST CONTINUED FOR (UNITY 1.0 P.F.) ON SHEETS SA/5B)

SOLA ELECTRIC TEST REPORT

TEST SHEET 4B OF

C/C Assem. No.: 1X 23-26-250-2E
2X 23-26-250-3E
 Capacitors: 7X8.0MFD. @ 660VAC (^{EACH} C/C ASSEM)
 Lamination: 11150-4
 Stack Size: 4.69 Shunt Size: .050^{GAP}
 Res.: Freq.:

Type Test: TEMPERATURE TEST ON COMPLETE UNIT
 Tested By: MARSHALL UHL
 Approved By: PAUL GEORGIAN
 Date: 4-17-86
 Freq. Tested At: 60 HZ.

Customer: METRO POWER / BECHTEL POWER
 Type of Unit: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980 F
 EQUIP. TAG. NO. 2-1807-YB-RX1
 GEORGIA POWER CO.
 VOGTLE ELECTRIC GENERATING PLANT

TEST CONDITION: (OUTPUT SHORT CIRCUIT) (520/480/350 V. INPUT) (50°C AMBI)

TEST LINE NO.	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (°C)														REMARKS	
	12	13	14	15	16	17	18	19	20	21	22	23	24	25		26
43																
44	116	102	104	108	107	107	107	115	112	104	106	98	93	102		(FINAL OVERNIGHT TEMPS)
45	(OUTPUT SHORT CIRCUIT TEST)															
46	118	105	107	111	-	118	121	137	-	109	118	99	95	112		
47	119	105	106	112	-	118	122	133	-	110	118	97	93	112		
48	122	106	108	114	-	122	126	136	-	112	122	96	92	115		
49	122	106	108	114	-	122	126	137	-	111	122	96	92	115		
50	123	106	107	114	-	123	127	137	-	112	122	96	92	116		
51	124	106	107	114	111	123	127	137	130	112	123	95	91	116		(FINAL TEMPS)
52																
53																
54																
55																
56																
57																
58																
59																
60																
61																
62																
63																

↑
MISSING DATA

SOLA ELECTRIC TEST REPORT

TEST SHEET 5B OF

C/C Assem. No.: 1X 23-26-250-2E
2X 23-26-250-3E
 Capacitors: 7X 8.0 MFD. @ 660 VAC (C/C ASSEM.)
 Lamination: 11150-4
 Stack Size: 4.69 Shunt Size: .050

Type Test: TEMPERATURE TEST ON COMPLETE UNIT

Tested By: Marshall Uhl

Approved By: PAUL GEURGINN

Date: April 17-18, 1986

Freq. Tested At: 60 HZ.

TEST CONDITION: (100% LOAD) (UNITY (1.0) P.F.) (380 & 520V. INPUT) (50°C AMS)

Customer: METRO POWER / BECHTEL POWER
 Type of Unit: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980 F
 EQUIP. TAG. NO. 2-1807-V3-RX1
GEORGIA POWER CO.
VOGTLE ELECTRIC GENERATING PLANT

TEST LINE NO.	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (°C)																REMARKS		
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		28	29
64																			
65																			
66																			
67																			
68																			
69																			
70	120	109	111	115	-	110	110	119	-	111	113	105	100	110	110	129	-	-	117
71	119	108	110	114	-	109	109	119	-	111	112	104	99	110	109	129	-	-	116
72																			INSTALLED T.C. NOS. 27/30 (FINAL OVERLIGHT TEMPS.)
73	123	108	110	114	-	109	110	119	-	112	113	105	99	111	110	129	-	-	120
74	130	108	110	115	-	110	110	120	-	112	114	106	99	112	111	128	-	-	119
75	131	109	110	115	-	111	111	121	-	113	115	106	99	113	111	129	-	-	121
76	132	110	111	116	-	112	112	122	-	114	116	106	99	114	112	129	-	-	121
77	133	110	111	117	-	113	113	123	-	107	111	105	97	115	113	130	-	-	122
78	134	111	112	117	-	113	113	123	-	107	116	106	99	115	113	131	-	-	122
79	134	111	112	118	-	113	113	124	-	115	117	107	100	115	113	130	-	-	122
80	134	111	113	118	-	113	114	124	-	115	117	107	100	115	113	132	-	-	123
81	131	110	112	117	114	113	113	123	119	114	116	105	98	113	112	131	-	-	122
82																			(FINAL TEMPS.)
83																			
84																			

Installed Left Unit Ambient T.C. #29

NOTE: THERMOCOUPLES (27-30) WERE INSTALLED TO CHECK AMBIENT TEMPS. BY CABLES FOR REF. AMBIENTS.

SOLA ELECTRIC TEST REPORT

C/C Assm. No.: 1X 23-26-250-2E
 2X 23-26-250-3E
 Type Test: TEMPERATURE TEST ON COMPLETE UNIT

Capacitors: 7X 8.0 MFD. @ 660VAC (C/F ASSY.)
 Tested By: Marshall Uhl

Laminations: 11150-4
 Approved By: PAUL GEORGIAN

Stack Size: 4.69
 Shunt Size: .050
 Date: April 22, 1986

Rev.:
 Freq. Tested At: 60 HZ.

TEST CONDITION: (100% LOAD) (0.9 LAG. P.F.) (350 V. INPUT) (40°C AMB)

TEST SHEET 6A OF

Customer: METRO POWER / BECHTEL POWER

Type of Unit: CVS TRANSFORMER

Catalog No.: 23-28-275 (SPECIAL)

Serial No.: 1980F

EQUIP. TAG. NO. 2-1807-Y3-RX1

GEORGIA POWER CO.
 VOLTAGE ELECTRIC GENERATING PLANT

TEST LINE NO.	PRIMARY (HI-114)			SECONDARY (X1-X2)				CAPACITOR	TIME	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (°C)																					
	Volts	Amps	Watts	Volts	Amps	Watts	Power Factor			Power Factor	1	2	3	4	5	6	7	8	9	10	11										
85	379.5	19.15	7250	113.53	64.4	6600	.902		9:00A	40	40	40	39	40	41	40	40	40	39	40	41	40	40	40	39						
86	380.4	19.05	7240	113.26	64.4	6580	.902		9:30	40	39	46	62	64	70	58	68	53	61	42	58	88	77	89	70	77	47				
87	380.2	19.10	7200	113.04	64.0	6500	.898		9:30	33	31	66	97	98	90	91	101	82	84	48	98	98	91	101	82	84	48				
88	380.5	19.05	7230	112.98	64.2	6500	.896		10:00	28	27	72	104	105	103	98	107	88	89	47	107	103	98	107	88	89	47				
89	380.1	19.00	7210	112.87	64.0	6500	.900		10:30	39	39	76	109	109	107	103	112	93	94	50	109	107	103	112	93	94	50				
90	379.6	18.90	7220	112.79	64.2	6520	.900		11:00	40	40	83	114	114	112	108	117	98	98	52	114	112	108	117	98	98	52				
91	383.3	18.90	7190	112.72	64.0	6480	.898		11:30	40	40	86	121	120	118	114	123	104	104	55	121	120	118	114	123	104	104	55			
92	382.7	18.8	7220	112.64	64.0	6460	.896		12:00	42	42	90	123	123	120	117	126	107	106	57	123	123	120	117	126	107	106	57			
93	379.2	19.05	7165	112.52	63.8	6440	.899		12:30	42	42	92	127	126	122	120	128	110	109	58	127	126	122	120	128	110	109	58			
94	379.0	18.85	7125	112.34	63.8	6420	.901		1:00 PM	39	38	95	129	128	124	122	130	112	110	59	129	128	124	122	130	112	110	59			
95	378.4	19.05	7155	112.33	63.6	6460	.904		1:30	41	41	96	130	129	125	123	131	113	111	59	130	129	125	123	131	113	111	59			
96	390.0	18.9	7150	112.36	64.0	6470	.895		2:00	42	41	97	131	130	126	124	132	114	112	61	131	130	126	124	132	114	112	61			
97	379.0	18.95	7155	112.28	63.8	6460	.902		2:30	41	39	98	132	131	127	125	133	115	113	61	132	131	127	125	133	115	113	61			
98	377.7	18.85	7165	112.22	63.6	6420	.899		3:00	42	41	98	134	132	128	126	134	116	114	61	134	132	128	126	134	116	114	61			
99	382.5	18.75	7185	112.37	63.6	6420	.898		3:30	42	40	99	134	133	128	127	134	116	115	62	134	133	128	127	134	116	115	62			
100	381.1	18.05	7140	112.34	63.0	6440	.899		4:00	41	40	100	134	132	128	127	134	116	114	61	134	132	128	127	134	116	114	61			
101								2.15	5.64	10.98																					
102																															
103	479.5	15.7	7440	114.42	64.2	6720	.909	1.90	6.03	11.17	4:10																				
104	520.1	15.0	7470	114.19	64.0	6680	.902	2.47	6.15	11.08	4:15																				
105																															

(TEST CONTINUED FOR 520V. INPUT ON SHEETS 7A/7B)

SOLA ELECTRIC TEST REPORT

TEST SHEET 6B OF

C/C Assem. No.: 1X 23-26-250-2E
2X 23-26-250-3E

Type Test: TEMPERATURE TEST ON COMPLETE UNIT

Customer: METRO POWER / BECHTEL POWER

Capacitors: 7X 8.0MFD. @ 660VAC (EACH C/C ASSEM.)

Tested By: Marshall Uhl

Type of Unit: CVS TRANSFORMER

Lamination: 11150-4

Approved By: SAUL GEURGAN

Catalog No.: 23-28-275 (SPECIAL)

Stack Size: 4.69 Shunt Size: .050 ^{CAP}

Date: April 22, 1986

Serial No.: 1980 F

Res.: Rev.:

Freq. Tested At: 60 HZ.

EQUIP. TAG. NO. 2-1807-YB-RX1
 GEORGIA POWER CO.
 VOGTLE ELECTRIC GENERATING PLANT

TEST CONDITION: (100% LOAD) (0.9 LAG. P.F.) (380 V. INPT) (40°C AMB.)

TEST LINE NO.	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (°C)																			REMARKS
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
85	40	40	41	39	40	40	40	41	40	40	40	39	40	40	40	41	40	39	40	(FINAL OVERNIGHT TEMPS)
86	51	46	46	49	-	54	53	61	-	49	55	49	44	50	54	55	50	52	50	
87	66	57	57	61	-	64	64	72	-	60	65	59	53	62	65	67	62	64	62	(CHAMBER CONTROLLER PARATIC-STIKING. AMB. TEMPS 152 AND LOW)
88	77	64	65	69	-	68	70	76	-	68	70	65	60	67	70	77	67	68	70	
89	78	68	69	73	-	72	73	79	-	72	74	69	64	71	73	83	71	73	75	(Reset Controller 10:08)
90	84	71	72	76	-	72	76	84	-	75	78	75	67	76	77	87	76	79	77	
91	86	75	76	80	-	80	80	89	-	79	82	78	70	78	80	89	80	83	80	
92	89	81	82	85	-	84	85	92	-	83	86	81	76	79	83	96	84	85	84	
93	92	83	84	87	-	86	86	95	-	85	88	83	77	82	84	96	87	88	86	
94	94	85	86	90	-	89	89	97	-	88	90	85	80	85	87	101	88	91	88	
95	95	87	88	92	-	89	89	97	-	89	91	86	81	85	88	103	89	93	89	
96	96	87	89	92	-	90	90	99	-	90	92	87	82	87	88	103	91	93	90	
97	97	89	90	93	-	91	91	99	-	91	93	23	83	88	90	104	92	94	91	
98	97	89	90	94	-	91	91	99	-	91	92	88	83	86	89	104	91	94	91	
99	99	90	91	95	-	92	92	101	-	92	94	90	84	88	90	106	93	95	92	
100	99	91	92	95	-	93	93	101	-	89	95	90	85	88	91	107	93	96	92	
101	98	90	91	95	94	92	93	101	98	92	94	89	84	87	90	106	93	96	92	(FINAL TEMPS)
102																				
103																				
104																				
105																				

NOTE: UNIT WAS PRE-CONDITIONED AT (40°C) AMBIENT FOR 16 HOURS BEFORE INPUT VOLTAGE AND LOAD WERE APPLIED

-22-

SOLA ELECTRIC TEST REPORT

TEST SHEET 7B OF _____

Customer: METRO POWER / BECHTEL POWER
 Type of Units: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980F
 Equip. TAG. NO. 2-1807-VB-RX1
GEORGIA POWER CO.
VOGTLE ELECTRIC GENERATING PLANT

Type Test: TEMPERATURE TEST ON COMPLETE UNIT
 Tested By: MARSHALL UHL
 Approved By: PAUL GEORGIAN
 Date: APRIL 23, 1986
 Freq. Tested At: 60 HZ.

C/C Assm. No.: 1X 23-26-250-2E
2X 23-26-250-3E
 Capacitors: 7X 8.0 MFD. @ 660 VAC (C/C ASSEM.)
 Laminations: 1150-4
 Stack Size: 4.69 Shunt Size: .050
 Rev.: _____
 TEST CONDITION: (100% LOAD) (0.9 P.F.) (520 V. INVT)
(OUTPUT SHORT CIRCUIT) (520 V. INVT) (40°C AMB)

TEST LINE NO.	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (OC)																			REMARKS
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
106	98	90	91	95	94	92	93	101	98	92	94	89	84	87	90	106	93	96	92	(FINAL OVERV. TEMPS)
107																				
108	101	91	93	96	—	93	94	102	—	94	96	90	85	90	92	109	95	97	94	
109	103	92	93	97	—	95	95	104	—	94	97	91	85	92	93	110	97	97	96	
110	105	93	94	98	—	93	96	105	—	96	98	92	85	94	95	111	99	98	98	
111	107	94	95	99	—	97	97	106	—	97	99	92	86	95	96	111	100	98	100	
112	108	95	96	100	—	98	98	107	—	98	100	93	86	96	97	113	101	98	101	
113	109	96	97	101	—	99	99	108	—	99	101	93	87	97	98	114	102	99	102	
114	109	96	97	101	—	99	99	108	—	99	101	94	87	97	98	115	103	100	103	
115	109	97	97	101	—	100	100	108	—	99	101	94	87	97	98	114	103	99	103	(FINAL TEMPS)
116	(OUTPUT SHORT CIRCUIT)																			
117	110	95	97	101	—	106	108	122	—	99	107	90	86	98	106	120	102	96	99	ON SHORT CIRCUIT TEST 11:40
118	118	99	100	106	—	114	117	129	—	105	115	90	86	105	116	123	107	95	103	
119	121	99	106	107	—	115	118	130	—	105	115	89	85	106	117	124	106	94	104	
120	120	99	100	106	—	115	117	129	—	105	115	87	84	106	117	123	106	92	104	
121	122	98	99	106	—	115	118	130	—	105	115	86	83	106	117	123	105	92	104	
122	122	98	99	106	—	115	118	130	—	105	116	85	83	106	118	123	105	91	104	
123	123	98	99	106	—	115	118	130	—	105	116	86	83	106	118	123	105	90	104	
124	124	99	100	107	104	116	119	132	129	106	117	86	83	107	119	124	106	91	105	(FINAL TEMPS)
125																				
126																				

SOLA ELECTRIC TEST REPORT

TEST SHEET 8B OF

Customer: METRO POWER / BECHTEL POWER
 Type of Units: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980 F
 EQUIP. TAG. NO. 2-1807-YB-RX1
GEORGIA POWER CO.
VOGTLE ELECTRIC GENERATING PLANT

Type Test: TEMPERATURE TEST ON COMPLETE UNIT
 Tested By: Marshall Uhl
 Approved By: PAUL GEORGINAN
 Date: April 24, 1986
 Freq. Tested At: 60 HZ.

C/C Assem. No.: 1X 23-26-250-2E
2X 23-26-250-3E
 Capacitors: 7X 8.0 mfd. @ 660 VAC (EACH C/C ASSEM.)
 Lamination: 11150-4
 Stack Size: 4.69 ^{CAP} Shunt Size: .050
 Rev.:

TEST CONDITION: (100% LOAD) (UNITY (1.0) P.F.) (380 \pm 520 V. INPUT) (40 $^{\circ}$ C Ambient)

TEST LINE NO.	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS ($^{\circ}$ C)														REMARKS				
	12	13	14	15	16	17	18	19	20	21	22	23	24	25		26	27	28	29
127																			
128	111	101	102	107	-	101	101	111	-	104	105	96	91	100	100	121	108	104	106 (FINAL OVERLIGHT TEMPS)
129																			
130																			
131																			
132	114	101	103	107	-	103	102	112	-	104	106	97	91	101	101	122	108	105	107
133	118	102	103	108	-	103	103	113	-	105	107	98	91	103	102	122	110	105	109
134	121	103	104	109	-	104	104	114	-	106	108	98	92	104	103	122	111	105	111
135	122	103	104	109	-	108	105	115	-	106	109	98	92	105	104	123	112	106	112
136	122	104	105	110	-	105	105	115	-	107	109	99	92	105	104	124	113	107	112
137	121	104	105	110	-	106	105	115	-	108	109	99	92	105	104	124	113	106	113
138	122	104	105	110	-	106	105	115	-	108	109	99	92	106	104	125	113	106	112
139	121	104	105	110	-	108	105	116	-	108	109	99	92	106	104	125	113	107	113
140	121	104	105	111	-	106	105	116	-	108	110	99	92	106	104	125	113	106	114
141	122	104	105	111	-	106	105	116	-	108	110	99	92	106	105	125	114	106	114
142	121	104	105	111	108	106	105	115	112	108	109	99	92	106	104	124	113	106	113 (FINAL TEMPS)
143																			
144																			
145																			
146																			
147																			

SOLA ELECTRIC TEST REPORT

TEST SHEET 9B OF

Customer: METRO POWER / BECHTEL POWER
 Type of Unit: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980 F
 EQUIP. TAG. NO. 2-1807-VB - RX1
GEORGIA POWER CO.
VOGTLE ELECTRIC GENERATING PLANT

Type Test: TEMPERATURE TEST ON COMPLETE UNIT
 Tested By: Marshall Utz
 Approved By: PAUL GEORGIAN
 Date: 4-24-86 4-25-86
 Freq. Tested At: 60 HZ.

C/C Asscm. No.: 1X 23-26-250-2E
2X 23-26-250-3E
 Capacitors: 7X8.0MFD. @ 660VAC (EACH C/C ASSEM.)
 Lamination: 11150-4
 Stack Size: 4.69 Shunt Size: .050
 Rev.:
 TEST CONDITION: (INSTALLED NEW TOP COVER PLATE WHICH HAS AIR HOLES) (50°C AMB) (350V / 520V INPUT)

TEST LINE NO.	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (°C)																		REMARKS	
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		30
148																				
149																				
150																				
151	107	91	93	98	-	83	83	95	-	85	89	77	75	91	94	87	93	91	87	TEMPS BEFORE RAINING AT NIGHT
152																				
153	103	90	93	97	-	93	93	104	-	94	96	89	87	86	91	90	91	93	85	(FINAL DRAINAGE TEMPS) (INPUT SET TO 520V.)
154																				
155	104	90	92	96	-	94	93	106	-	94	96	88	86	86	91	89	91	93	85	
156	104	91	93	97	-	87	86	97	97	95	97	89	86	86	92	91	92	93	86	
157	106	91	93	97	-	95	94	107	-	94	97	88	86	89	93	89	92	93	86	
158	106	91	93	97	-	95	95	107	-	95	97	88	86	89	93	88	92	93	86	
159	106	91	93	97	-	95	94	107	-	95	97	87	86	89	93	88	92	94	86	
160	107	91	93	97	-	95	94	107	-	94	97	87	85	88	93	88	92	92	86	
161	107	91	93	97	-	95	94	107	-	95	97	88	85	89	93	86	92	93	86	
162	106	91	93	97	-	95	94	107	-	95	97	88	85	89	93	86	92	93	86	
163	107	91	93	97	90	95	95	107	103	95	98	88	85	89	93	87	92	93	86	(FINAL TEMPS)
164																				
165																				
166																				
167																				
168																				

SOLA ELECTRIC TEST REPORT

C/C Assemb. No.: 1X 23-26-250-2E
 Type Test: TEMPERATURE TEST ON COMPLETE UNIT
 Capacitors: 7X 8.0 mfd. @ 660 Vac (EACH C/CLASS) CAP
 Tested By: MARSHALL WAHL
 Laminations: 11150-4
 Approved By: PAUL GEORGIAN
 Sheet Size: GNP
 Date: 4-25-86
 Rev.:
 Freq. Tested At: 60 HZ.

TEST SHEET 10A OF
 Customer: METRO POWER / BECHTEL POWER
 Type of Units: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980F

Equip. TAG. NO. 2-1807-V3-RX1
 GEORGIA POWER CO.
 VOGTLE ELECTRIC GENERATING PLANT
 TEST CONDITION: (OUTPUT SHORT CIRCUIT) (INAT 520/480/386V) (50°CAMB)

TEST LINE NO.	PRIMARY (HI-14)			SECONDARY (XI-X2)			CAPACITOR	TIME	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (OC)																						
	Volts	Amps	Watts	Volts	Amps	Watts			Power Factor	1	2	3	4	5	6	7	8	9	10	11											
169	527.7	15.10	7545	114.4	628	6640	92.1	2.53%	617	10.97	12:30p	50	48	113	140	136	134	148	157	136	131	149	134	152	123	110	73				
170											1:00	51	50	109	134	131	149	134	152	123	110	73									
171											1:15	54	53	110	142	143	164	143	178	122	105	75									
172	521.7	18.5	830		102.3			S/C			2:00	55	54	109	148	150	168	152	191	126	100	75									
173	521.6	18.6	885		102.0						2:30	55	54	108	148	150	168	154	193	127	100	75									
174	519.9	18.35	900		101.7						3:00	55	54	108	149	150	167	154	193	127	100	75									
175	520.1	18.4	875		102.0						3:30	54	53	109	150	151	168	155	194	128	100	76									
176	521.2	18.5	885		102.0						4:00	55	55	108	150	151	169	156	194	128	100	76									
177	522.8	18.65	925		102.0						4:30	50	49	107	148	149	166	153	191	127	98	73									
178	520.4	18.35	880		101.4						5:00	50	49	106	147	148	165	153	191	126	98	73									
179	519.7	18.40	870		101.3																										
180	520.4	18.35	871		101.8			S/C																							
181																															
182	480.2	15.25	740		93.8			S/C																							
183	388	10.90	430		74.4			S/C																							
184	460.1	14.00	660		189	90.1		S/C																							
185																															
186																															
187																															
188																															
189																															

(TEST COMPLETED)

SOLA ELECTRIC TEST REPORT

TEST SHEET 10B OF

Customer: METRO POWER / BECHTEL POWER
 Type of Units: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980F
 EQUIP. TAG. NO. 2-1807-VB-RX1
GEORGIA POWER CO.
VOGTLE ELECTRIC GENERATING PLANT

Type Test: TEMPERATURE TEST ON COMPLETE UNIT
 Tested By: MARSHALL WHL
 Approved By: PAUL GEDRIGIAN
 Date: 4-25-86
 Freq. Tested At: 60 HZ.

C/JC Assm. No.: 1X 23-26-250-2E
2X 23-26-250-3E
 Capacitors: 7X8.0MFD @ 660VAC (C/JC ASSEM)
 Laminations: 11150-4
 Stack Size: 4.69 ^{CAP} Shunt Size: .050
 Rev.:
 TEST CONDITION: (OUTPUT SHORT CIRCUIT) (INVT: 520/440/380V) (50°C AMB.)

TEST LINE NO.	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (0C)																		REMARKS	
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		30
169																				
170	107	91	93	97	96	95	95	107	103	95	98	88	85	89	93	87	72	73	86	(MEASUREMENTS FROM LINE 163)
171																				(SHORT CIRCUIT TEST)
172	103	89	91	95	-	91	92	109	-	93	96	86	84	85	93	92	91	88	83	(ON SHORT CIRCUIT)
173	108	91	94	98	-	105	107	123	-	97	105	86	85	90	104	93	93	89	86	
174	112	93	96	101	-	109	112	126	-	100	108	86	85	94	109	93	94	89	88	
175	112	94	96	101	-	110	112	126	-	100	109	86	85	95	110	92	95	88	89	
176	113	94	96	101	-	110	113	127	-	100	109	85	85	94	111	93	95	88	89	
177	114	94	96	102	-	110	113	127	-	100	110	85	84	94	111	94	95	88	88	
178	113	94	96	101	-	110	113	127	-	100	109	85	84	95	111	93	95	88	89	
179	112	91	93	99	-	107	111	124	-	97	106	82	82	94	109	89	92	85	86	RE-ADJUSTED (7.00 PM) CHAMBER AMBIENT DOWN
180	112	91	93	99	-	107	110	124	-	97	106	82	82	94	109	89	92	84	86	(FINAL TEMPS)
181																				
182																				
183																				
184																				
185																				
186																				
187																				
188																				
189																				

SOLA ELECTRIC TEST REPORT

TEST SHEET 11A OF

C/C Anom. No.: 1X 23-26-250-2E
2X 23-26-250-3E

Type Test: TEMPERATURE TEST ON COMPLETE UNIT

Customer: METRO POWER / BECHTEL POWER

Capacitors: 7X 8.0 mfd. @ 660VAC (C/F ASSEMB)

Tested By: MARSHALL UHL / PAUL GEORGIAN

Type of Units: CVS TRANSFORMER

Lumination: 1150-4

Approved By: PAUL GEORGIAN

Catalog No.: 23-28-275 (SPECIAL)

Stack Size: 4.69 Sheet Size: 0.50

Date: 5/1/86 - 5/5/86

Serial No.: 1980F

Rev.:

Prog. Tested At: 60 Hz.

EQUIP. TAG. NO. 2-1807-V3-RX1
 GEORGIA POWER CO.
 VOGTLE ELECTRIC GENERATING PLANT

TEST CONDITION: (NEW TOP COVER PLATE WITH ALL HOLES)
(UNIT ON LOAD) (UNITY 0.0 P.F.) (INPUT 520V @ 480V) (40°C AMBI)

TEST LINE NO.	PRIMARY (HI-114)			SECONDARY (XI-X2)			CAPACITOR		TIME	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (°C)												
	Volts	Amprs	Watts	Volts	Amprs	Watts	Power Factor	Harmonics		Volts	Amprs	1	2	3	4	5	6	7	8	9	10	11
190	UNIT ADJUSTED FOR UNITY P.F. (40°C) WITH NEW COVER PLATE) 5/1/86																					
191	300.2	22.7	8390	118.74	63.6	7500	1.0	1.93	572	12.42	40	40	74	119	120	112	113	133	97	94	53	
192	481.4	18.25	8515	119.57	64.0	7660	1.0	1.97	601	13.62	4:00											
193	519.3	17.50	8475	118.8	63.4	7560	1.0	2.82	608	14.06	4:20											
194	520.0	17.20	8360	118.61	62.6	7460	1.0	2.81	609	14.10	5:00	40	91	121	119	117	135	155	118	114	59	
195	(UNIT RAN OVERNIGHT AT 520V. INPUT) 5/2/86																					
196	519.0	17.15	8340	118.13	62.6	7400	1.0	2.80	604	13.98	10:00A	41	40	107	140	135	130	153	170	134	128	64
197	480.1	17.8	8380	118.84	62.8	7480	1.0	2.0	599	13.56	10:05											
198	379.5	22.25	8230	118.2	62.6	7400	1.0	1.9	570	12.34	10:10											
199	(INPUT VOLTS REDUCED TO 480V) 5/2/86																					
200	480	17.8	8380	118.84	62.8	7480	1.0	2.0	599	13.56	10:15A	41	40	107	140	135	130	153	170	134	128	64
201	(UNIT RAN OVER WEEKEND UNTIL MONDAY MORNING) 5/5/86																					
202	479.6	17.95	8375	118.74	62.8	7420	1.0	2.04	598	13.47	8:30 PM	42	42	108	142	138	133	153	169	133	127	66
203	520	17.10	8345	118.12	62.6	7340	1.0	2.98			8:35											
204	380.3	22.1	8230	118.11	62.4	7380	1.0	1.84	571	12.30	8:40											
205																						
206																						
207																						
208																						
209																						
240	(TEST CONTINUED FOR 380V. INPUT ON SHEETS 12A/12B)																					

SOLA ELECTRIC TEST REPORT

TEST SHEET 11B OF

C/C Assem. No.: 1X 23-26-250-2E
2X 23-26-250-3E
 Capacitors: 7X 8.0MFD. @ 660VAC (EACH C/L ASSEM.)
 Lamination: 11150-4
 Stack Size: 4.69 Shunt Size: .050
 Res.: Rev.:

Type Test: TEMPERATURE TEST ON COMPLETE UNIT
 Tested By: MARSHALL UHL / PAUL GEORGIAN
 Approved By: PAUL GEORGIAN
 Date: 5/1/86 - 5/5/86
 Freq. Tested At: 60 HZ.

Customer: METRO POWER / BECHTEL POWER
 Type of Units: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980 F
 EQUIP. TAG. NO. 2-1807-Y3-RX1
 GEORGIA POWER CO.
 VOGTLE ELECTRIC GENERATING PLANT

TEST CONDITION: (NEW TOP COVER PLATE WITH AIR HOLES)
(100% LOAD) (UNITY (1.0) P.F.) (INPUT 520V & 480V) (40°CAMB)

TEST LINE NO.	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (°C)																			REMARKS
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
190																				
191	81	66	67	72	-	72	71	82	-	70	75	64	61	67	71	63	67	67	65	PRELIMINARY TEMPS BEFORE OVERNIGHT TEST
192																				
193																				
194	92	74	76	80	-	80	80	92	-	78.0	83	70	68	76	80	67	76	74	73	TEMPS BEFORE OVERNIGHT TEST
195																				
196	107	84	86	90	89	89	88	101	98	88	92	78	76	86	87	67	87	83	80	FINAL OVERNIGHT TEMPS
197																				
198																				
199																				(INPUT REDUCED TO 480V. LAM.)
200	107	84	86	90	89	89	88	101	98	88	92	78	76	86	87	67	87	83	80	PRELIMINARY TEMPS BEFORE OVERNIGHT TEST
201																				
202	106	84	87	92	91	90	90	102	98	90	93	81	78	86	88	72	87	85	81	FINAL OVERNIGHT TEMPS
203																				
204																				
205																				
206																				
207																				
208																				
209																				
210																				

SOLA ELECTRIC TEST REPORT

Type Test: TEMPERATURE TEST ON COMPLETE UNIT

Tested By: Marshall Uhl

Approved By: Paul Geibman

Date: May 5, 1986

Prog. Tested At: 60 HZ

TEST CONDITION: (NEW TOP COVER WITH 4/8 HOLES)
 (100% LOAD) (UNITY P.F.) (INPUT 380V.) (40°C AMB.)

C/C Assm. No: AX 23-26-250-3E

Capacitors: 2X 8.0 MFD. @ 660VAC (C/E Assm.)

Laminations: 11150-4

Stack Size: 4.69

Serial No: 1980F

Equip. TAG. NO. 2-1807-Y3-RX1

GEORGIA POWER CO.

VOGTE ELECTRIC GENERATING PLANT

Customer: METRO POWER/BECHTEL POWER

Type of Unit: CVS TRANSFORMER

Catalog No: 23-28-275 (SPECIAL)

Serial No: 1980F

GEORGIA POWER CO.

VOGTE ELECTRIC GENERATING PLANT

TEST SHEET 124 OF

TEST LINE NO.	PRIMARY (H1-H4)		SECONDARY (X1-X2)		CAPACITOR	TIME	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (°C)															
	VOLTS	AMPS	WATTS	VOLTS			AMPS	WATTS	POWER FACTOR	HAR-MONICS	VOLTS	AMPS	1	2	3	4	5	6	7	8	9	10
211						8:45	(INPUT VOLTS REDUCED TO 380V.)															
212	381.6	22.15	8220	118.7	62.6	7360	1.0	1.83	571	12.28	9:15	44	43	108	150	147	135	151	167	132	125	68
213	378.4	22.35	8265	118.05	62.6	7380	1.0				10:00	42	41	106	155	152	136	146	161	128	122	67
214	379.2	22.2	8270	118.07	62.4	7380	1.0				10:30	41	40	105	155	152	137	144	159	126	120	66
215	380.1	22.3	8270	118.10	62.6	7340	1.0				11:00	41	40	105	154	151	137	144	159	126	120	66
216	380.7	22.15	8265	118.09	62.4	7400	1.0				11:30	42	42	106	153	151	137	144	159	126	120	65
217	381.6	22.25	8285	118.15	62.6	7380	1.0				12:00	40	39	105	154	150	136	143	158	126	120	65
218	378.4	22.3	8265	118.14	62.6	7380	1.0				12:30	40	39	104	153	150	136	143	158	125	120	65
219	378.9	22.25	8235	118.10	62.6	7400	1.0				1:00	40	39	104	154	150	136	143	158	125	120	65
220	379.9	22.2	8235	118.10	62.4	7400	1.0				1:30	40	39	104	153	150	136	143	157	125	119	64
221	378.4	22.3	8240	118.09	62.6	7380	1.0				2:00	41	41	105	153	150	136	143	157	125	119	64
222	379.5	22.2	8230	118.16	62.4	7380	1.0				2:30	41	40	104	152	150	136	142	157	124	118	64
223	379.1	22.25	8235	118.18	62.6	7360	1.0	1.88	571	12.31	2:45	40	39	104	152	147	136	142	157	124	118	64
224																						
225	480.7	17.85	8400	118.86	63.0	7460	1.0	2.05	598	13.51	2:50											
226	519.8	17.1	8350	118.23	62.6	7420	1.0	2.93	605	13.95	2:55											
227																						
228																						
229																						
230																						
231																						

(TESTS CONTINUED AT 520V & 480V NOM. & 380V. SHORT CIRCUIT TESTS ON SHEETS 13A/13B)

13A

SOLA ELECTRIC TEST REPORT

TEST SHEET 12B OF

Customer: METRO Power / BECHTEL POWER
 Type of Units: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980F
 Equip. TAG. NO. 2-1807-V3-RX1
 GEORGIA POWER CO.
 VOGTLE ELECTRIC GENERATING PLANT

C/C Assm. No.: 1X 23-26-250-2E
 Type Test: TEMPERATURE TEST ON COMPLETE UNIT
 Tested By: Marshall Uhl
 Approved By: PAUL GEORGIAN
 Date: May 5, 1986
 Freq. Tested At: 60 HZ.
 (NEW TOP COVER PLATE WITH AIR HOLES)
 TEST CONDITION: (100% LOAD) (UNITY P.F.) (INPUT 350V) (40°C AMBI)

TEST LINE NO.	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (°C)																				REMARKS
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	(
211	106	84	87	92	91	90	102	98	90	93	81	78	86	88	72	87	85	81	((INPUT REDUCED TO 350V.)	
212	107	87	89	94	-	90	103	-	88	91	79	80	87	89	75	88	86	82			
213	105	86	88	94	-	90	102	-	91	93	82	80	87	88	72	88	87	81			
214	104	86	88	93	-	89	101	-	91	92	83	80	86	88	73	88	86	80			
215	105	86	88	93	-	89	101	-	91	92	83	80	86	88	74	87	87	80			
216	106	85	88	93	-	89	101	-	90	92	82	80	86	87	73	87	86	80			
217	105	85	87	92	-	86	101	-	90	92	82	80	86	87	71	87	86	79			
218	105	85	87	92	-	88	100	-	90	91	82	80	86	87	70	87	86	79			
219	105	85	87	92	-	89	100	-	90	91	82	80	85	87	72	86	86	79			
220	103	85	87	92	-	88	100	-	89	91	82	80	84	86	73	86	85	79			
221	106	84	87	92	-	88	99	-	89	90	82	79	85	86	70	86	85	79			
222	106	84	86	92	-	88	99	-	89	90	81	79	85	86	71	86	85	78			
223	106	84	86	92	91	88	99	95	89	91	82	79	85	86	72	86	86	78		(FINAL TEMPS)	
224																					
225																					
226																					
227																					
228																					
229																					
230																					
231																					

SOLA ELECTRIC TEST REPORT

TEST SHEET 13A OF

C/C Assemb. No.: 1X 23-26-250-2E
 2X 23-26-250-3E
 Capacitors: 7X 8.0 mfd. @ 660VAC (EACH C/C ASSEM)
 Laminations: 11150-4
 Sheet Size: 4.69
 Rev.:
 TEST CONDITION: (NEW TOP COVER WITH AIR HOLES)
 (OUTPUT SHORT CIRCUIT TEST) (INPUT: 520/480/380V) (40°C AMP)

Customer: METRO POWER / DECHTEL POWER
 Type of Units: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980F
 EQUIP. TAG. NO.: 2-1807-V3-RX1
 GEORGIA POWER CO.
 VOLTGE ELECTRIC GENERATING PLANT

TEST LINE NO.	PRIMARY (HI-1#)			SECONDARY (XI-X2)			CAPACITOR	TIME	THERMOCOUPLE LOCATION NOS. AND TEMPERATURE MEASUREMENTS (°C)														
	Volts	Amps	Watts	Volts	Amps	Watts			Power Factor	BAR-INCHES	Volts	Amps	1	2	3	4	5	6	7	8	9	10	11
232	520.2	17.15	8315	11807	62.4	7380	1.0	3.15	632	11.19	11:02	42	41	106	140	136	131	153	170	135	128	66	
233	519.3	18.15	850	2.03	102.2		S/C				11:30	42	41	103	135	134	153	140	171	120	101	64	
236	519.1	18.15	840	2.13	102.3						12:15	42	41	100	141	142	159	145	183	119	94	65	
237	519.4	18.15	900	2.12	102.5						12:45	41	40	98	140	141	157	144	182	118	90	63	
238	517.2	18.00	825	2.12	101.8						1:15	42	40	97	138	140	156	143	182	117	89	62	
239	512.0	17.95	875	2.12	102.0						1:45	42	41	96	137	138	155	143	181	116	88	62	
240	516.1	17.90	860	2.12	101.9						2:15	42	41	96	136	138	155	142	180	116	87	62	
241	517.3	18.10	895	2.12	102.2		S/C	81.8	20.8		2:45	42	41	95	136	137	155	141	180	115	87	62	
242	(INPUT REDUCED TO 480V NOMINAL)																						
243	481.8	15.35	700	1.94	94.8		S/C				3:15	42	41	93	124	125	141	133	165	111	85	60	
244	479.8	15.10	700	1.94	94.6						3:45	42	41	91	123	124	140	132	165	109	84	60	
245	480.5	15.3	700	1.94	94.7						4:15	42	41	90	121	122	139	130	164	108	83	60	
246	480.2	15.15	702	1.94	95.0						4:45	42	41	89	120	121	139	130	163	107	83	59	
247	480.4	15.1	702	1.94	95.0						5:15	42	41	89	120	121	139	129	163	107	82	59	
248	480.5	15.2	700	1.94	95.0		S/C	74.3	19.7		5:45	42	41	89	120	121	139	129	162	107	82	59	
249																							
250	380.1	10.9	452	1.52	75.1		S/C	57.0	1.61		5:50												
251																							
252	(TEST COMPLETED)																						

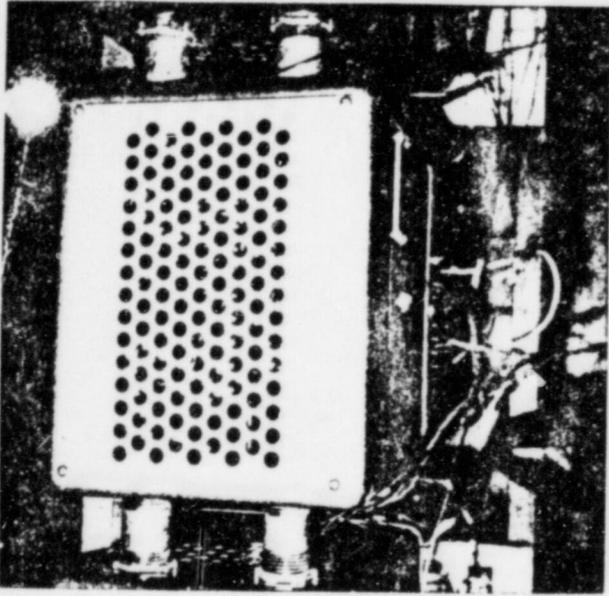
SECTION 4.3
TEST SHEET 13B OF

SOLA ELECTRIC TEST REPORT
 Type Test: TEMPERATURE TEST ON COMPLETE UNIT
 Tested By: MARSHALL UHL
 Approved By: PAUL GEORGIN
 Date: MAY 8, 1986, MAY 9, 1986
 Freq. Tested At: 60 HZ.
 TEST CONDITION: (NEW TOP COVER PLATE WITH AIR HOLES) (INPUT: 520/480/380V) (40°C AMB)
 (OUTPUT SHORT CIRCUIT @ 520V.)

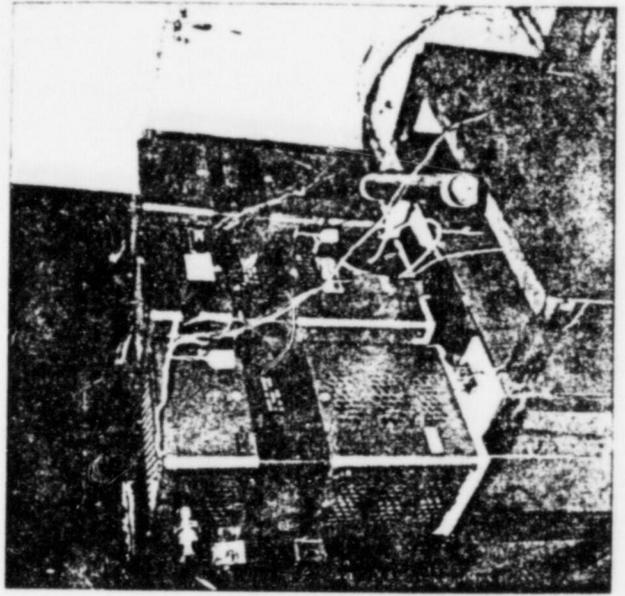
Customer: METRO POWER / BECHTEL POWER
 Type of Units: CVS TRANSFORMER
 Catalog No.: 23-28-275 (SPECIAL)
 Serial No.: 1980 F
 EQUIP. TAG. NO. 2-1807-V3-RX1
 GEORGIA POWER CO.
 VOGTLE ELECTRIC GENERATING PLANT

TEST LINE NO.	THERMOCOUPLE LOCATION NO'S. AND TEMPERATURE MEASUREMENTS (°C)																			REMARKS
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
232	(100% LOAD)																			(FINAL TEMPS)
233	108	85	87	92	91	90	89	102	96	90	93	80	78	86	88	71	88	86	81	(FINAL TEMPS)
234	(OUTPUT SHORT CIRCUIT @ 520V.)																			(FINAL TEMPS)
235	105	84	86	91	-	97	98	115	-	90	98	78	77	86	96	76	87	82	79	
236	105	86	88	93	-	102	104	118	-	92	102	78	77	88	102	78	87	81	80	
237	105	83	85	91	-	100	102	115	-	89	99	76	75	89	101	71	85	77	78	
238	105	83	85	90	-	99	102	115	-	89	99	74	74	88	101	72	84	77	77	
239	104	82	84	90	-	99	102	115	-	89	98	74	73	87	100	74	84	76	78	
240	104	82	84	89	-	99	102	114	-	88	98	75	73	87	101	76	84	75	77	
241	104	82	84	89	87	99	101	114	104	88	98	73	72	87	101	76	83	75	77	(FINAL TEMPS)
242	(OUTPUT SHORT CIRCUIT @ 480V. NOMINAL INPUT)																			
243	99	79	80	85	-	93	95	107	-	85	92	71	70	83	94	72	80	73	75	
244	97	78	79	85	-	93	95	107	-	84	92	70	69	83	94	71	79	71	75	
245	96	77	79	84	-	92	94	106	-	83	91	69	69	81	94	72	79	72	74	
246	96	77	78	83	-	92	94	106	-	83	91	69	68	81	93	72	78	71	73	
247	96	76	78	83	-	92	94	106	-	82	91	68	68	81	93	71	78	71	73	
248	96	76	78	83	80	92	94	106	100	92	91	69	67	81	93	71	78	71	73	(FINAL TEMPS)
249																				

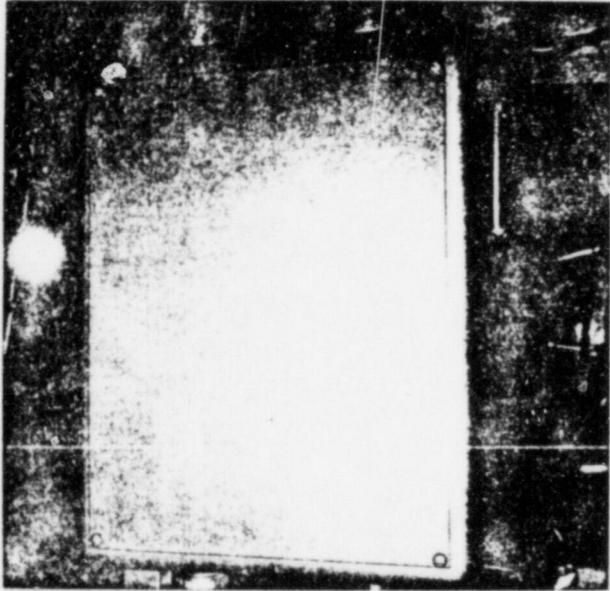
NOTE: UNIT RAN OVERLOAD UNDER LOAD BEFORE SHORT CIRCUIT TEST.



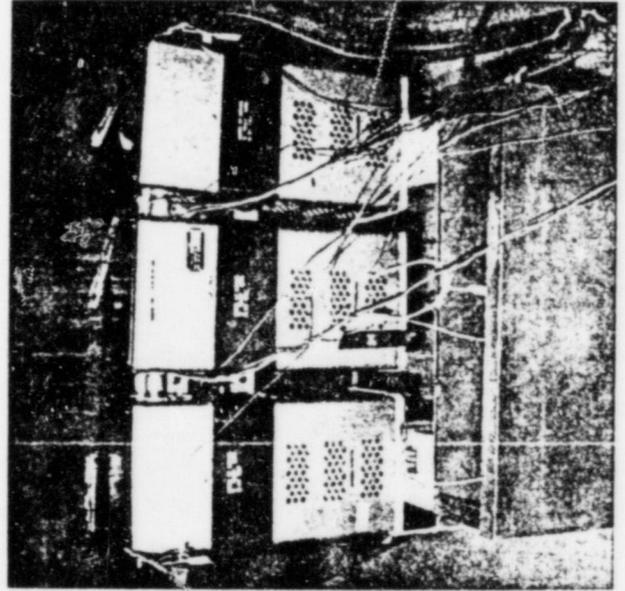
TOP COVER PLATE WITH AIR HOLES



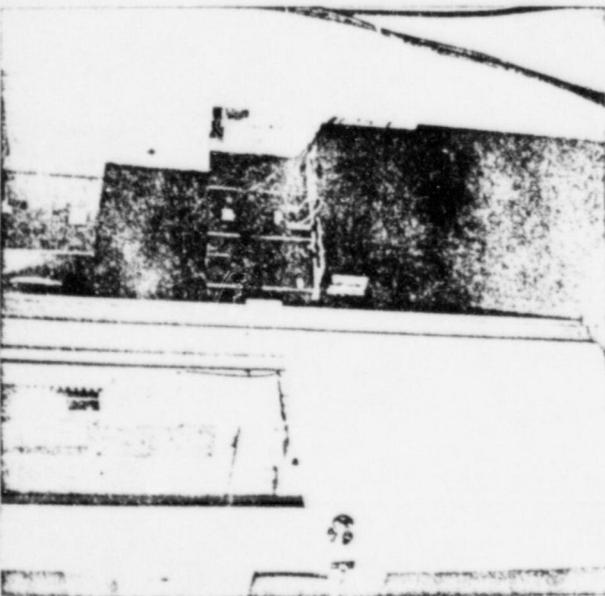
UNIT WITH AIR HOLES IN TOP COVER PLATE



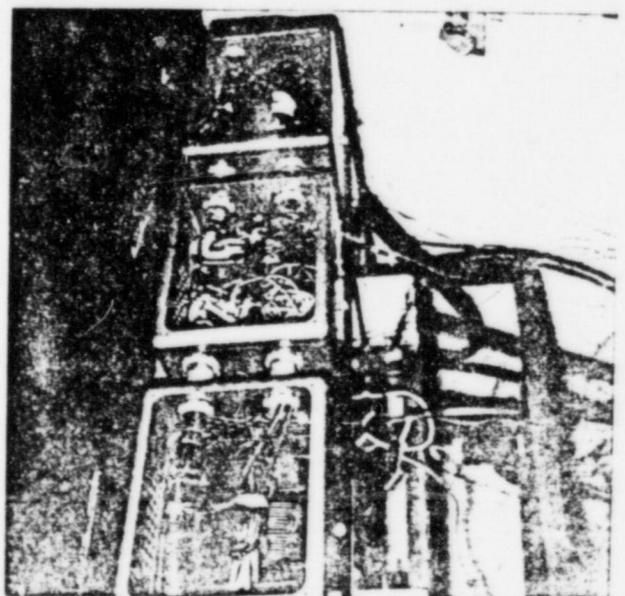
TOP COVER PLATE WITHOUT AIR HOLES



UNIT WITHOUT AIR HOLES IN TOP COVER PLATE.

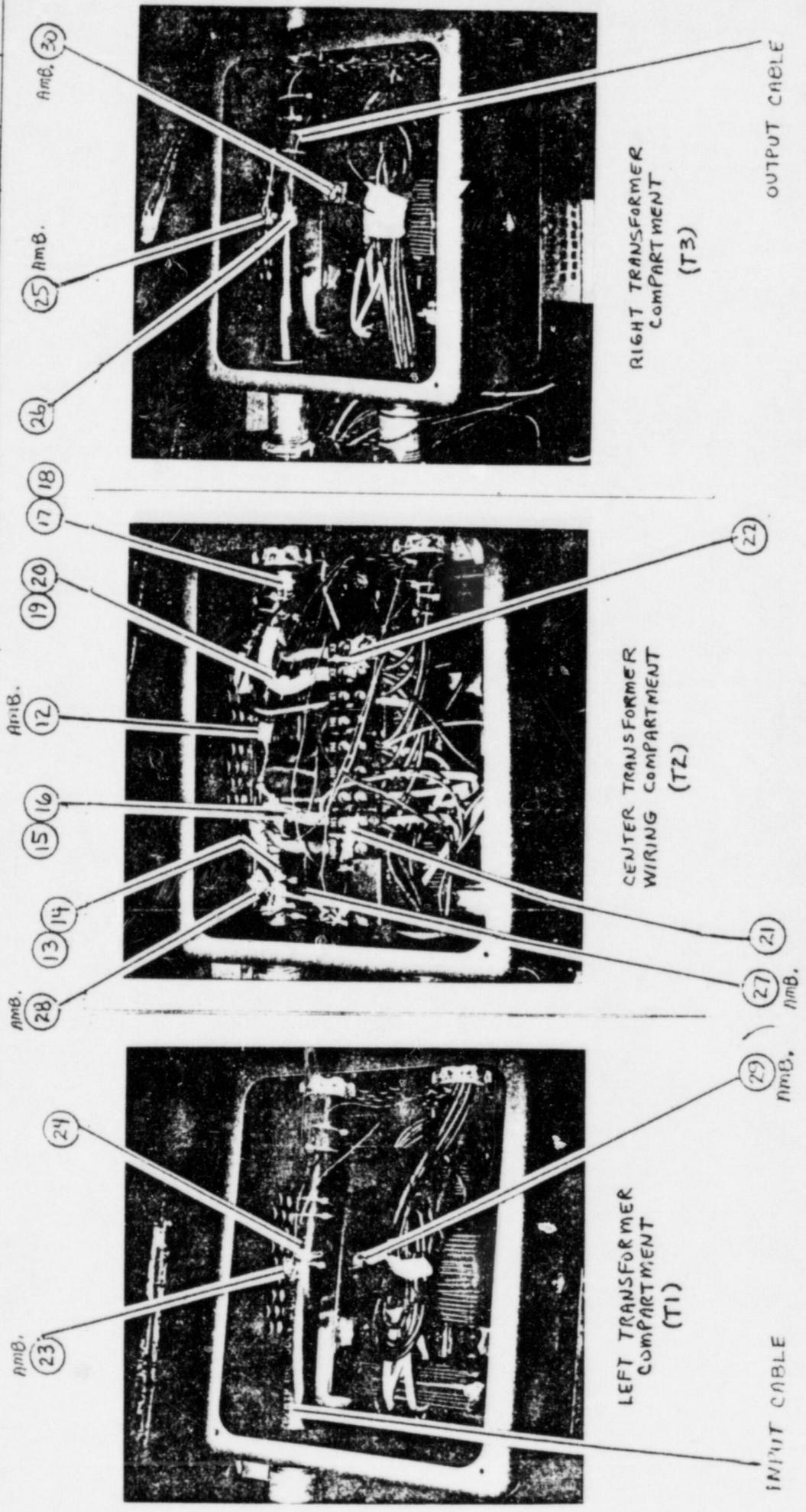


TRANSFORMER MOUNTED IN HEAT CHAMBER



TOP VIEW OF UNIT

LOCATION OF THERMOCOUPLE WIRES	NO.
(T2) TRANSFORMER WIRING COMPARTMENT AMBIENT	12
(3 CONDUCTOR CABLE) INPUT CABLE OUTER JACKET SURFACE	13
INPUT CABLE - INSIDE CABLE BETWEEN JACKET & CONDUCTORS	14
INPUT CABLE - (H1) CONDUCTOR INSULATION SURFACE	15
INPUT CABLE - (H1) CONDUCTOR INTERNAL WIRE STRANDS	16
INPUT CABLE - (H1) CONDUCTOR OUTER JACKET SURFACE	17
OUTPUT CABLE - (X2) CONDUCTOR INSULATION SURFACE	18
OUTPUT CABLE - (X2) CONDUCTOR INTERNAL WIRE STRANDS	19
OUTPUT CABLE - (X2) CONDUCTOR	20
(T2) WIRING COMP. - MAIN TERMINAL BLOCK SURFACE BY (H1) TERM.	21
(T2) WIRING COMP. - MAIN TERMINAL BLOCK SURFACE BY (X2) TERM.	22
(T1) LEFT TRANSFORMER COMPARTMENT AMBIENT	23
(T1) TRANSFORMER INPUT CABLE OUTER JACKET SURFACE	24
(T3) RIGHT TRANSFORMER COMPARTMENT AMBIENT	25
(T3) TRANSFORMER OUTPUT CABLE OUTER JACKET SURFACE	26
(T2) WIRING COMP. AMBIENT BELOW INPUT CABLE	27
(T2) WIRING COMP. AMBIENT ABOVE INPUT CABLE	28
(T1) COMPARTMENT - AMBIENT IN CENTER OF COMP.	29
(T3) COMPARTMENT - AMBIENT IN CENTER OF COMP.	30



INSTRUMENTATION EQUIPMENT SHEET

Customer: Bechtel Power

Type Test: Temperature Test

Catalog No.: 23-28-275 (Special)

Date: May 6, 1986

Serial No: 1980F

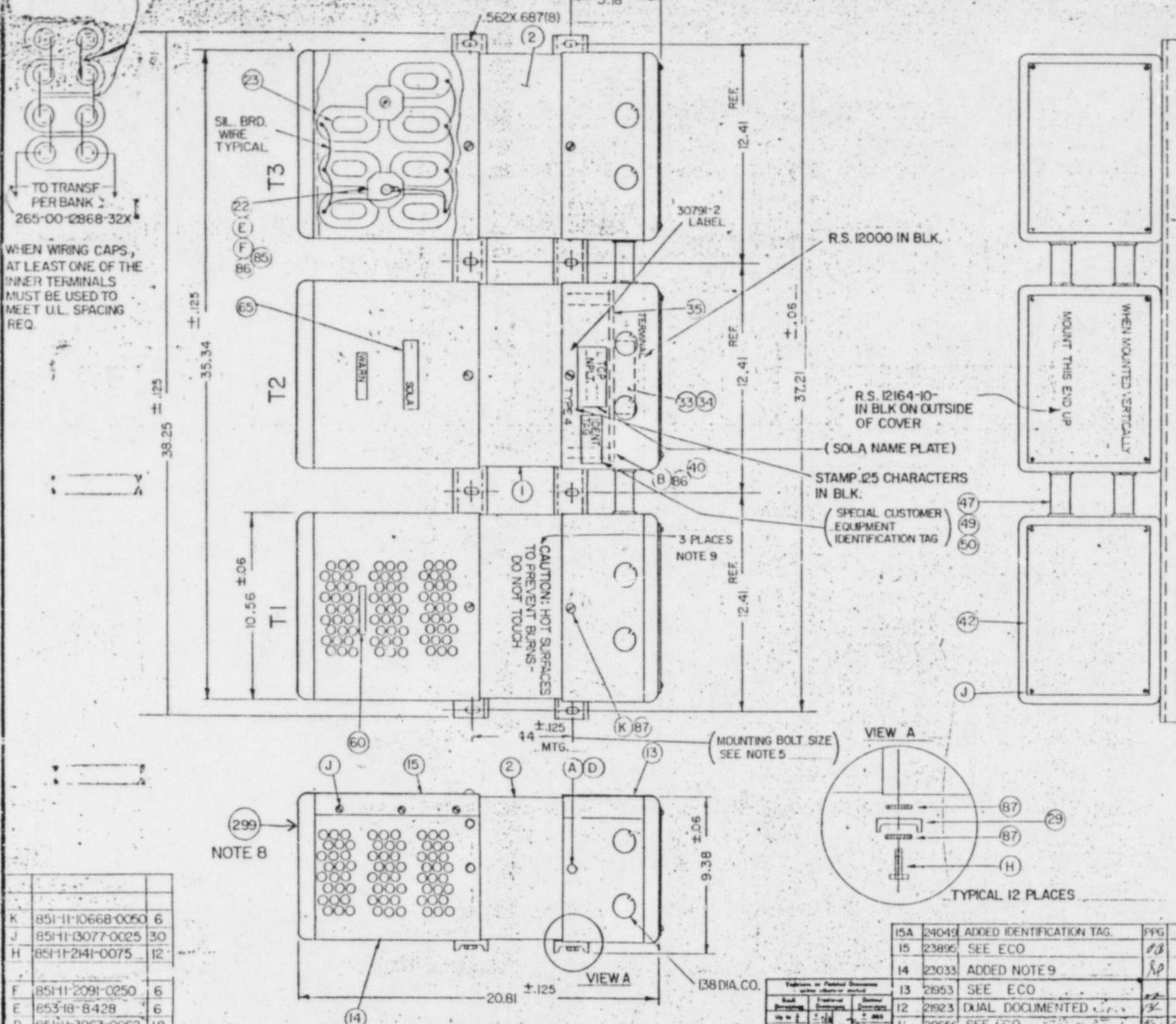
No.	Instrument	Manufacturer	Model No.	Serial No.	Range	Accuracy	Calibration	
							On	Due
1	Digital Power Analyzer	Valhalla Scientific Inc	2100	3-3520	0-600 Volts 0-20 Amps	± .25%	4/4/86	10/4/86
2	Current Transformer	Daystrom Inc.	461	23128	50:5	± .5%	4/20/86	10/20/86
3	Digital Power Analyzer	Valhalla Scientific Inc.	2101	3-3981	0-300 Volts 0-20 Amps	± .25%	11/8/85	5/8/86
4	Current Transformer	Daystrom Inc.	461	23131	100:5	± .5%	3/15/86	9/15/86
5	Distortion Meter	Leader Electronics Corp.	LE-1171	5110025	3%	± .5%	4/11/86	7/11/86
6	Digital Multimeter	Beckman Instruments Inc	RMS 3060	30721014	1000 Volts 0-20 Milliamp	± .9%	2/13/86	5/13/86
7	Current Probe	John Fluke Mfg Co Inc	Y-8101	MAG-002	1000:1	± 2.5%	4/1/86	10/1/86
8	Digital Temperature Indicator	Omega Eng. Inc.	DP900	657833	-200°C to +760°C	± 1°C	12/4/85	6/4/86
9	Rotary Selector Switch	Omega Eng. Inc.	OSWT-40	MAG-006	40 position	—	12/4/85	6/4/86
1+2	Input Instruments							
3+5	Output Instruments							
6+7	Capacitor Instruments							
8+9	Temperature Instruments							

(P P G E W B)

Approved By: PAUL GEURGINN

Prepared By: Marshall Uhl

265-00-12868-1B-X



- NOTES:
1. STAMP DATE CODE AFTER CAT. NO. ON NPLT.
 2. WEDGE COILS AS REQ'D PER WORKMANSHIP STD. SEC. III.
 3. IMPREGNATE C/C PER C/C B/M.
 4. UNIT WILL FIT MTG. DIM. SHOWN WITH 1/2" DIA. SCREWS. USE (8) NO. 1/2-13 HEX HEAD BOLTS, STANDARD COMMERCIAL GRADE (TENSILE STRENGTH EQUAL TO 55K P.S.I.) WITH FLAT WASHERS UNDER BOLT HEADS.
 5. REF. TO S.D. & WS. SPECIFIED ON B/M WHEN WIRING UNITS.
 6. GROUND CAPACITORS, IF CAPS. ARE PAINTED REMOVE PAINT AT GROUND POINT CONNECTION.
 7. WARNING LABEL, ITEM 299, APPLIED TO UPPER RIGHT CORNER OF CV REAR END AS SHOWN APPLY TO EACH CV ASS'Y.
 8. STAMP 30998 ON TOP OF IRON 3 PLACES.

(PAGE 39)

ITEM	PART NO	QTY
K	851-11-10668-0050	6
J	851-11-13077-0025	30
H	851-11-2141-0075	12
F	851-11-2091-0250	6
E	853-18-8428	6
D	851-11-3963-0062	18
B	851-11-2091-0038	2
A	853-11-12346	18

Item	Description	Quantity	Remarks
15A	24049	ADDED IDENTIFICATION TAG.	PPG
15	23896	SEE ECO	PPB
14	23033	ADDED NOTE 9	PP
13	28953	SEE ECO	
12	21923	DUAL DOCUMENTED	
11	20656	SEE ECO	PPB
10	20496	DELETED NOTE 4	
9	20244	REDRAWN REV FOR U.L.	

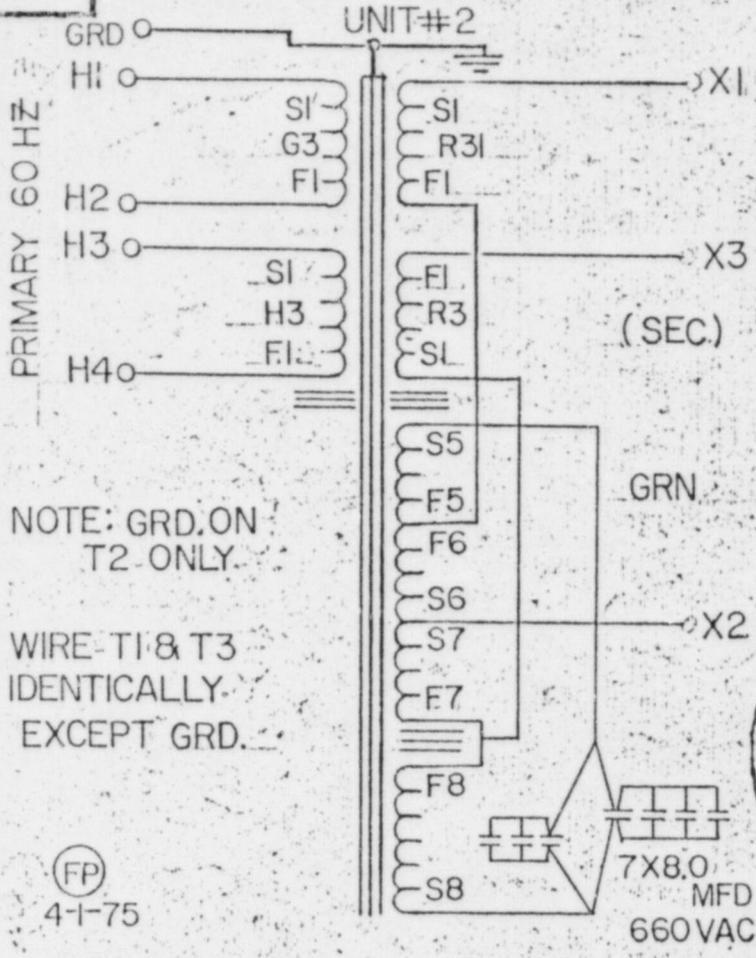
G D P v F M I E J P U L R M S A

15
14
13
12
11
10
9

SEE PAGE 2 OF 2 FOR LEAD WIRE COLOR GAUGE & PRIMARY, SECONDARY CONNECTIONS

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Information contained herein is confidential, is the property of General Signal Corporation, is to be used solely for the purpose provided, and is not to be disclosed to others without the written consent of General Signal Corporation.

B



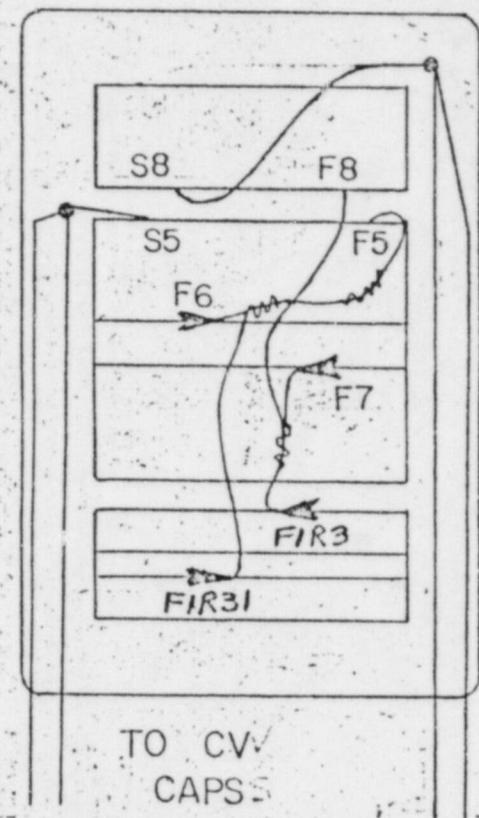
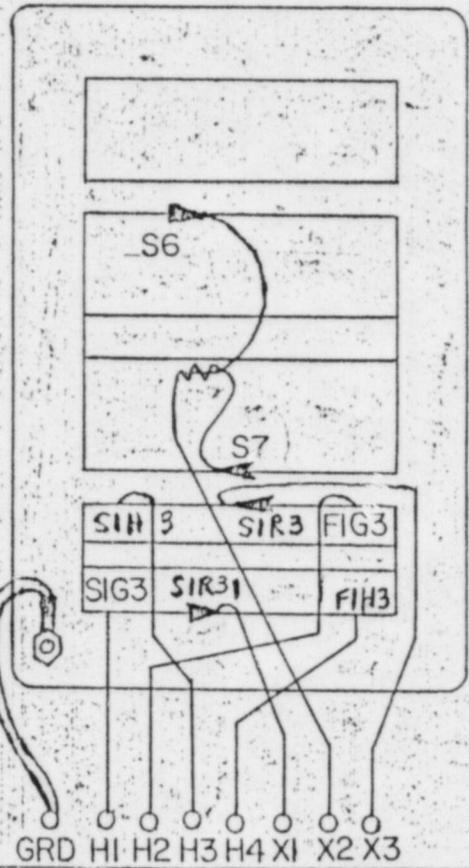
NOTE: GRD. ON T2 ONLY.

WIRE T1 & T3 IDENTICALLY EXCEPT GRD.

FP 4-1-75

SIDE X

SIDE Y



(PAGE 40)

Variations on Finished Dimensions unless otherwise marked			REVISION	BY	CHK.	APPD. ENG.	APPD. STDR.	DATE
Basic Dimensions	Fractional Dimensions	Decimal Dimensions						
Up to 1/4	+ 1/128	± .005	9 - 23895	MOVED GND. LD.	P.B.			4-14-80
Above 1/4 to 6	+ 1/64	± .005	8 - 21953	SEE ECO	H.L.			3-20-78
Above 6 to 24	+ 1/32	± .010	7 - 20244	SEE ECO	G.P.			9-23-76
Above 24	+ 1/16	± .015	1 - 12579	STD - ADDED PAGE 1 OF 2.	PPG			8-9-68
Angular Dimensions ± 35°			REWORK NUMBER	CHANGE ORDER				
See Purch. Spec. for Stock Tolerances			DRAWN	CHK.	APPD. ENG.	APPD. STDR.	DATE	SCALE
			EH				11-20-58	~

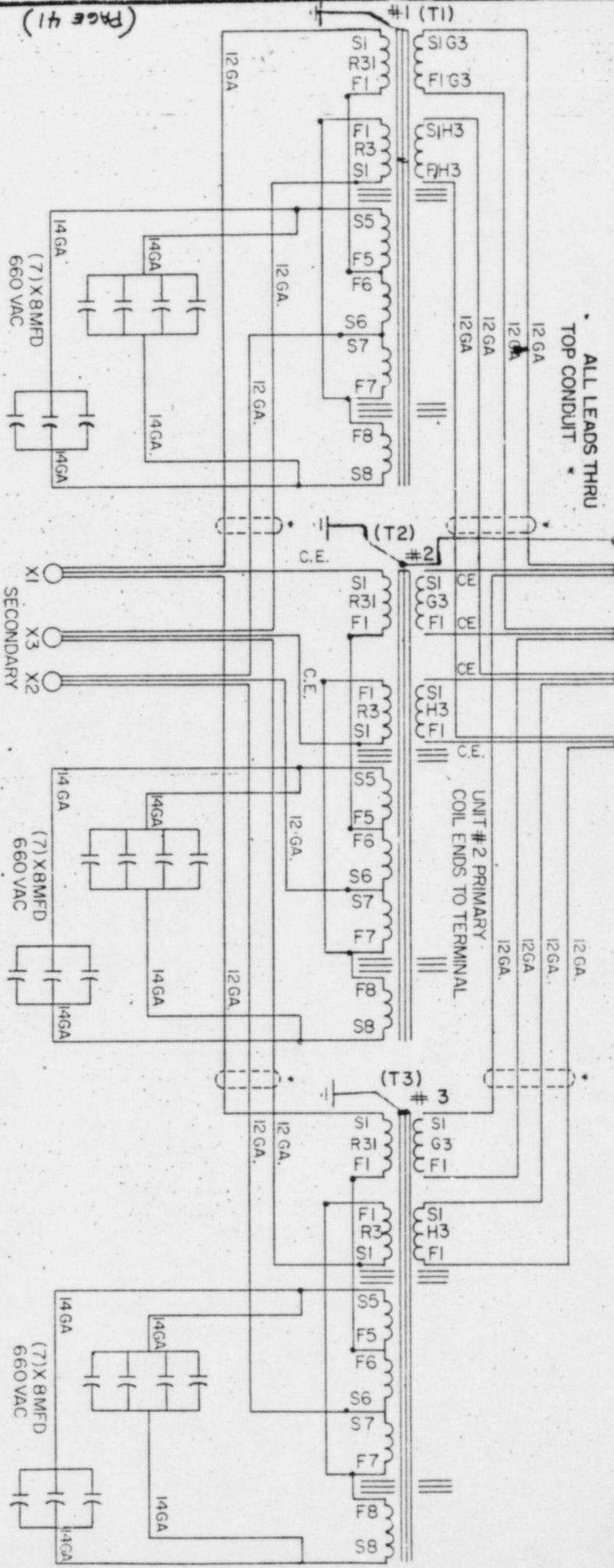
SE SOLA ELECTRIC
DIVISION OF SOLA BASIC INDUSTRIES
ELK GROVE VILLAGE, ILLINOIS

S.D. 23-28-275 PAGE 1 OF 2

SCHEMATIC DIAGRAM FOR CAT. NO. 23-28-275

S.D. 23-28-275 PAGE 1 OF 2

PRIMARY CONNECTIONS	SECONDARY VOLTS	TERM.
VOLTS	120	X1-X2
190-260	120	X2-X3
380-520	240	X1-X3



C.E. = COIL ENDS.

(PAGE 4)

SD 23-28-275
PAGE 20F 2

PAGE 10F 2 IS A SIZE

NOTE: ALL LEAD WIRE IS BLACK

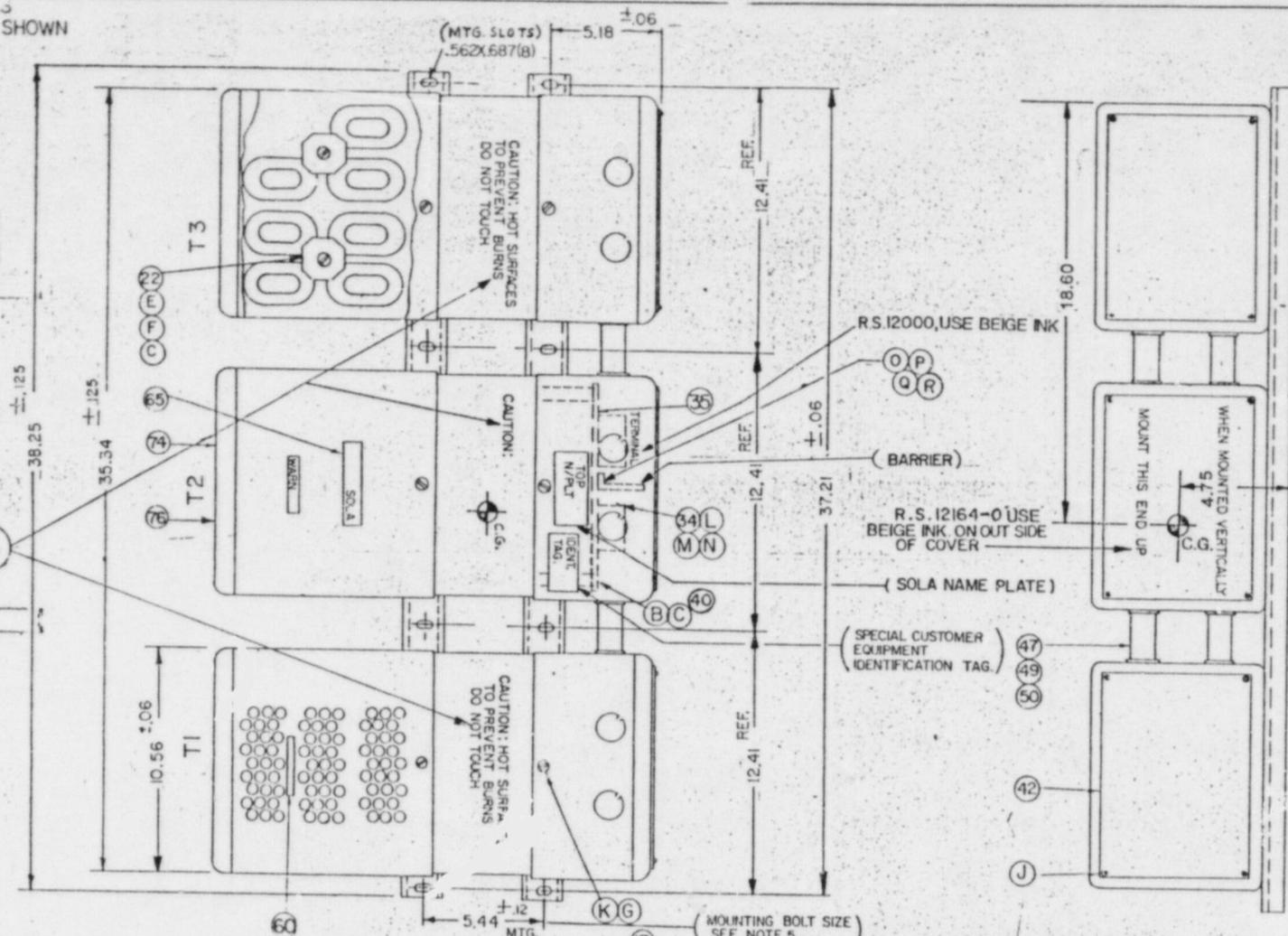
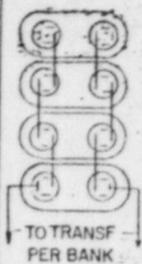
TOLERANCE FOR DIMENSIONS UNLESS OTHERWISE SPECIFIED	
ONE PLACE DECIMAL	± 1
TWO PLACE DECIMAL	± 0.2
THREE PLACE DECIMAL	± 0.05
HOLE DIAMETERS	± 0.01
ANGLES	± 3'

CHANGES DOCUMENTED ON #1 OF 2 PAGE	
REVISION	DATE
BY	CHK.
DATE	SCALE

SOLA ELECTRIC	
SD 23-28-275	SCHEMATIC DIAGRAM
23-28-275	CAT NO

FP 4-1-75
B

CAPACITORS
WIRED AS SHOWN

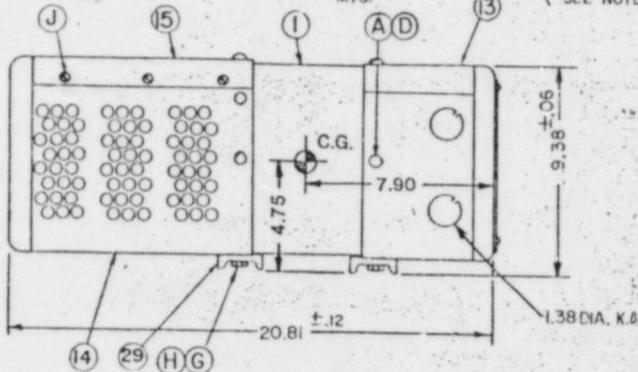


- NOTES —
1. STAMP DATE CODE & SERIAL NO. AFTER CAT. NO. ON NP TL.
 2. WEDGE COILS AS REQ'D PER WORKMANSHIP STD. SEC. III.
 3. IMPREGNATE C/C PER C/C B/M.

5. UNIT WILL FIT MTG. DIM. SHOWN WITH 1/2" DIA. BOLTS, USE (8) 1/2-13 HEX. HEAD BOLTS. STANDARD COMMERCIAL GRADE. (ASTM A307 GRADE A OR BETTER) (TENSILE STRENGTH EQUAL TO 55K P.S.I. MINIMUM) AND WITH FLAT WASHERS UNDER BOLT HEADS.

6. REF. S.D. & W.S. SPECIFIED ON B/M WHEN WRING UNITS.

7. UNIT WEIGHT IS APPROX. 485 LBS. CENTER OF GRAVITY (C.G.) IS AS SHOWN.

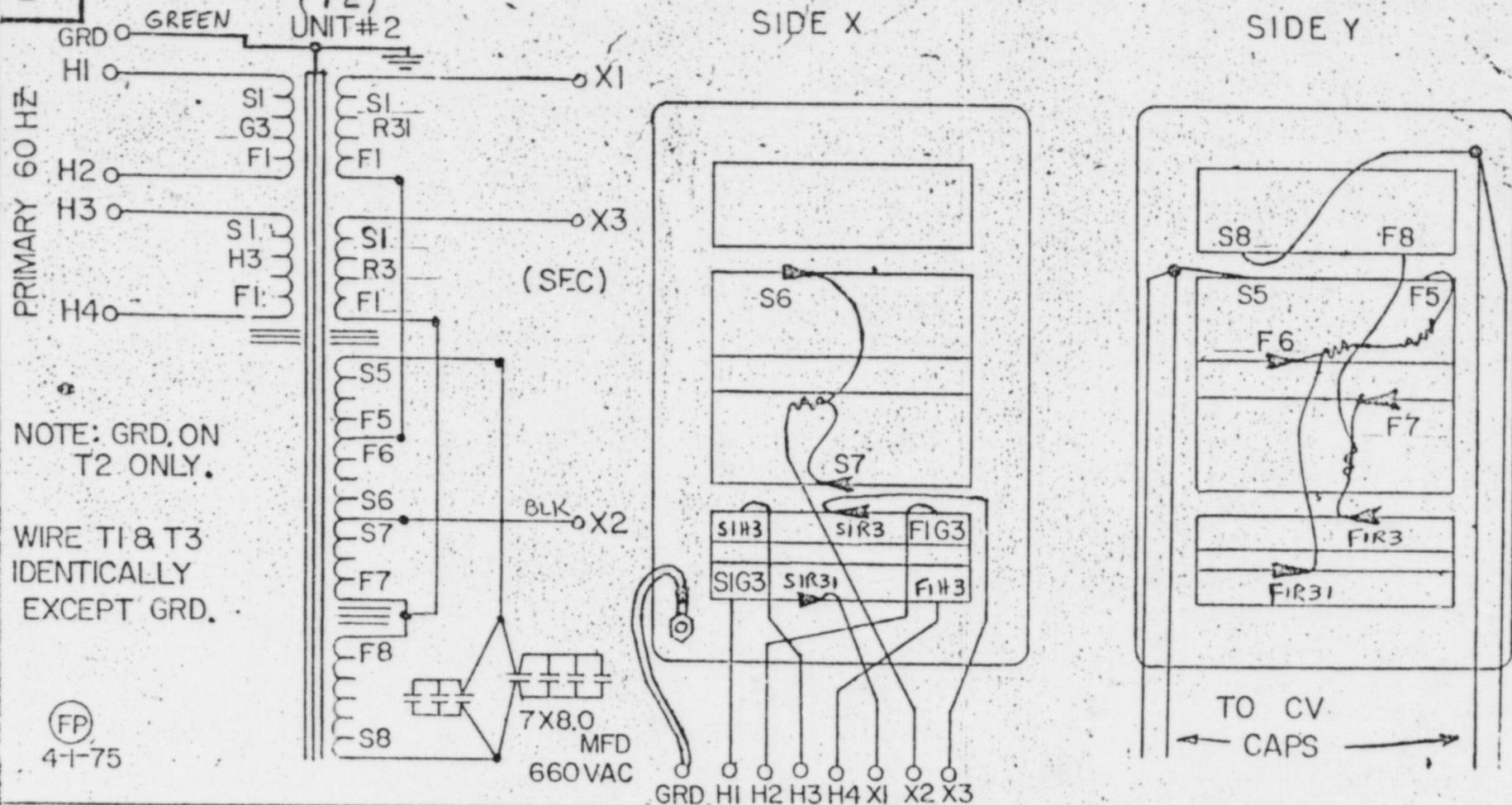


R	855-11-2128-02	2
Q	851-11-02098-0038	2
P	853-11-02088-06	2
O	855-11-02120-03	2
N	853-11-2088-07	4
M	855-11-2120-04	4
L	851-11-2097-0125	4
K	851-11-10668-0050	6
J	851-11-13077-0025	30
H	851-11-2141-0075	12
G	855-11-2120-08	18
F	851-11-2091-0150	6
E	853-18-8428	6
D	851-11-3963-0062	18
C	855-11-2120-07	8
B	851-11-2091-0038	2
A	853-18-12346	18
ITEM	PART NO.	QTY.

TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED												
ONE PLACE DECIMAL	± .1	TWO PLACE DECIMAL	± .02	THREE PLACE DECIMAL	± .010	HOLD DIMETERS	± .001	ANGLES	± 1°			
2A	27206	REVISED NOTES, ADDED NOTE	PPG	PG	PG					6/21/83	SOLA ELECTRIC	
1A	2404	ADDED BARRIER & IDENT. TAG.	PPG	PG	PG					1/11/80	CAT NO 923-28-275	
1	23513	SEE ECO	JB							10/30/79	SEISMIC CVS. TRANSF.	
										SPECIAL MODIFIED UNIT		
										FOR BECHTEL POWER CORP		
REVISION										DATE		
WRB	AO	PPG								1-11-77	923-28-275	

SEE PAGE 2 OF 2 FOR LEAD WIRE COLOR, GAUGE & PRIMARY, SECONDARY CONNECTIONS

B



PRIMARY 60 HZ

NOTE: GRD. ON T2 ONLY.

WIRE T1 & T3 IDENTICALLY EXCEPT GRD.

FP 4-1-75

7X8.0 MFD 660 VAC

* Variations on Finished Dimensions unless otherwise marked		
Basic Dimensions	Fractional Dimensions	Decimal Dimensions
Up to 1/8"	$\pm \frac{1}{128}$	$\pm .005$
Above 1/8" to 5/16"	$\pm \frac{1}{64}$	$\pm .005$
Above 5/16" to 3/4"	$\pm \frac{1}{32}$	$\pm .010$
Above 3/4"	$\pm \frac{1}{16}$	$\pm .015$
Angular Dimensions	$\pm 1/2^\circ$	

See Purch. Spec. for Stock Tolerances

REVISION	BY	CHK.	APPD. ENG.	APPD. STDS.	DATE
9	PPG				4-14-80
8	H.L.				3-20-78
7	GP				9-23-76
1	PPG				8-9-68

SE SOLA ELECTRIC
 DIVISION OF SOLA BASIC INDUSTRIES
 ELK GROVE VILLAGE, ILLINOIS

S.D.923-28-275 PAGE 1 OF 2

SCHEMATIC DIAGRAM FOR CAT. NO. 923-28-275

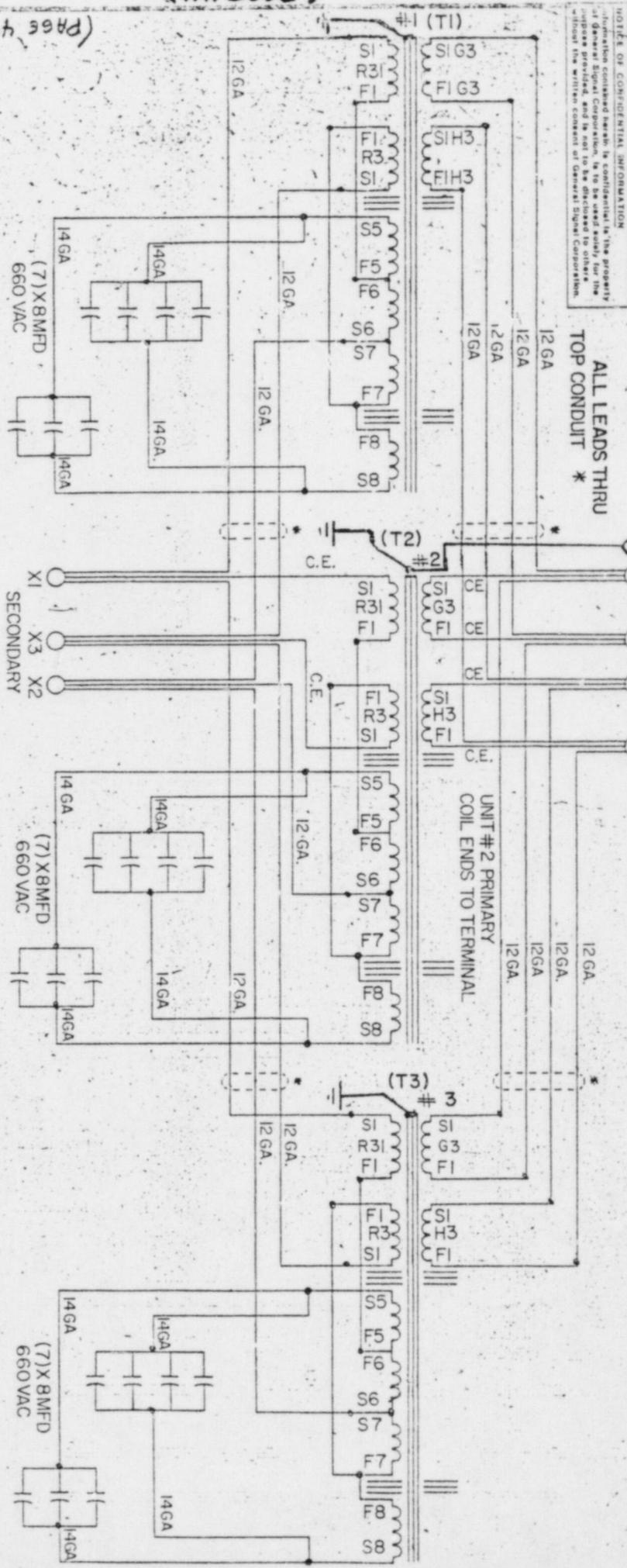
DRAWN	CHK.	APPD. ENG.	APPD. STDS.	DATE	SCALE
EH	PPG			11-20-58	~

S.D.923-28-275 PAGE 1 OF 2

(PAGE 43)

PRIMARY VOLTS	CONNECTIONS	SECONDARY JUMPER	SECONDARY VOLTS	TERM.
190-260	HI-H4	HI-H3, H2-H4	120	X1-X2
380-520	HI-H4	H2-H3	120	X2-X3
			240	X1-X3

NOTE: OF CONFIDENTIAL INFORMATION
 Information contained herein is confidential to the property of General Signal Corporation. It is to be used solely for the purposes specified and is not to be disseminated outside the limits of the written consent of General Signal Corporation.



ALL LEADS THRU TOP CONDUIT *

PRIMARY 190/380-260/520V 60 CYC.

UNIT #2 PRIMARY COIL ENDS TO TERMINAL

NOTE: ALL LEAD WIRE IS BLACK

C.C. - COIL ENDS

SD 923-28-275

PAGE 2 OF 2

PAGE (OF 2) IS A SIZE

4-1-75 (FP) B

TOLERANCE OR DIMENSIONS UNLESS OTHERWISE SPECIFIED	
ONE PLACE DECIMAL	±.1
TWO PLACE DECIMAL	±.02
THREE PLACE DECIMAL	±.010
HOLE DIMENSIONS**	±.005
ANGLES	±.5°

CHANGES DOCUMENTED ON #1 OF 2 PAGE

REVISION	DATE	BY	CHK.	APP.	DATE
1	11-20-53				

SD 923-28-275
 SCHEMATIC DIAGRAM
 923-28-275 CAT. NO.

SD BOLA ELECTRIC
 1117 BOLA BLVD. - NEW BRUNSWICK, N.J. 08901

GEORGIA POWER COMPANY

SHIPPING MEMO. PACKING LIST

(PAGE 45)

No. **069621**
3-25-36 Cj

From Vogtle Electric Generating Plant Dept.
P. O. Box 282 Waynesboro, GA 30330

SHIP VIA _____

To: Sola Electric
1717 Busse Road
Elk Grove Village, IL 60007
ATTN: Mr. Paul Georgian

Freight
UPS Collect
Truck Prepay
Parcel Post

Route _____

Reference No. PAV 3718, PAV 2-132

Account No. _____

No. of Pkgs.	Kind	CLASSIFICATION	No.	Unit	DESCRIPTION
		TRANSFORMER	1	EA	Tag # 2-1807-1Y3-RX1 905
		CABLE	50	FT	Cable 3/6, # 6
					SPEC X3AAN4
					PO. ITEM NO. 4
					EQUIP. TAG NO. 2-1807-1Y3-RX1
		NOTE: PLEASE REFERENCE OUR PAV AND RELEASE NUMBER ON ALL SHIPPING DOCUMENTS AND INVOICES.			
		TOTAL			

Shipped by: _____ Date: _____

Packed By _____

Checked By _____

Received above in good order.

Date _____

Date _____

Date _____ By _____

(Signed) _____

(PAGE 45)

Georgia Power Company
Post Office Box 282
Waynesboro, Georgia 30830
Telephone 404 554-9961
404 724-8114

Southern Company Services, Inc.
Post Office Box 2625
Birmingham, Alabama 35202
Telephone 205 870-6011



Vogtle Project

October 6, 1986

Director of Nuclear Reactor Regulation
Attention: Mr. B. J. Youngblood
PWR Project Directorate #4
Division of PWR Licensing A
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

File: X7BC35
Log: GN-1100

NRC DOCKET NUMBERS 50-424 AND 50-425
CONSTRUCTION PERMIT NUMBERS CPPR-108 AND CPPR-109
VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 AND 2
IMPLEMENTATION OF ALTERNATE ELECTRICAL SEPARATION CRITERIA

Dear Mr. Denton:

Enclosed are five copies of the electrical and temperature test report of a 7.5 KVA CVS transformer requested by a member of your staff during a telephone conversation held on September 25, 1986.

If your staff requires any additional information concerning this extension request, please contact me.

Sincerely,

J. A. Bailey

J. A. Bailey
Project Licensing Manager

JAB/sm

xc: R. E. Conway
R. A. Thomas
J. E. Joiner, Esquire
B. W. Churchill, Esquire
M. A. Miller (2)
B. Jones, Esquire
G. Bockhold, Jr.

NRC Regional Administrator
NRC Resident Inspector
D. Feig
R. A. McManus
L. T. Gucwa
Vogtle Project File

0764V

Boo!
1/5