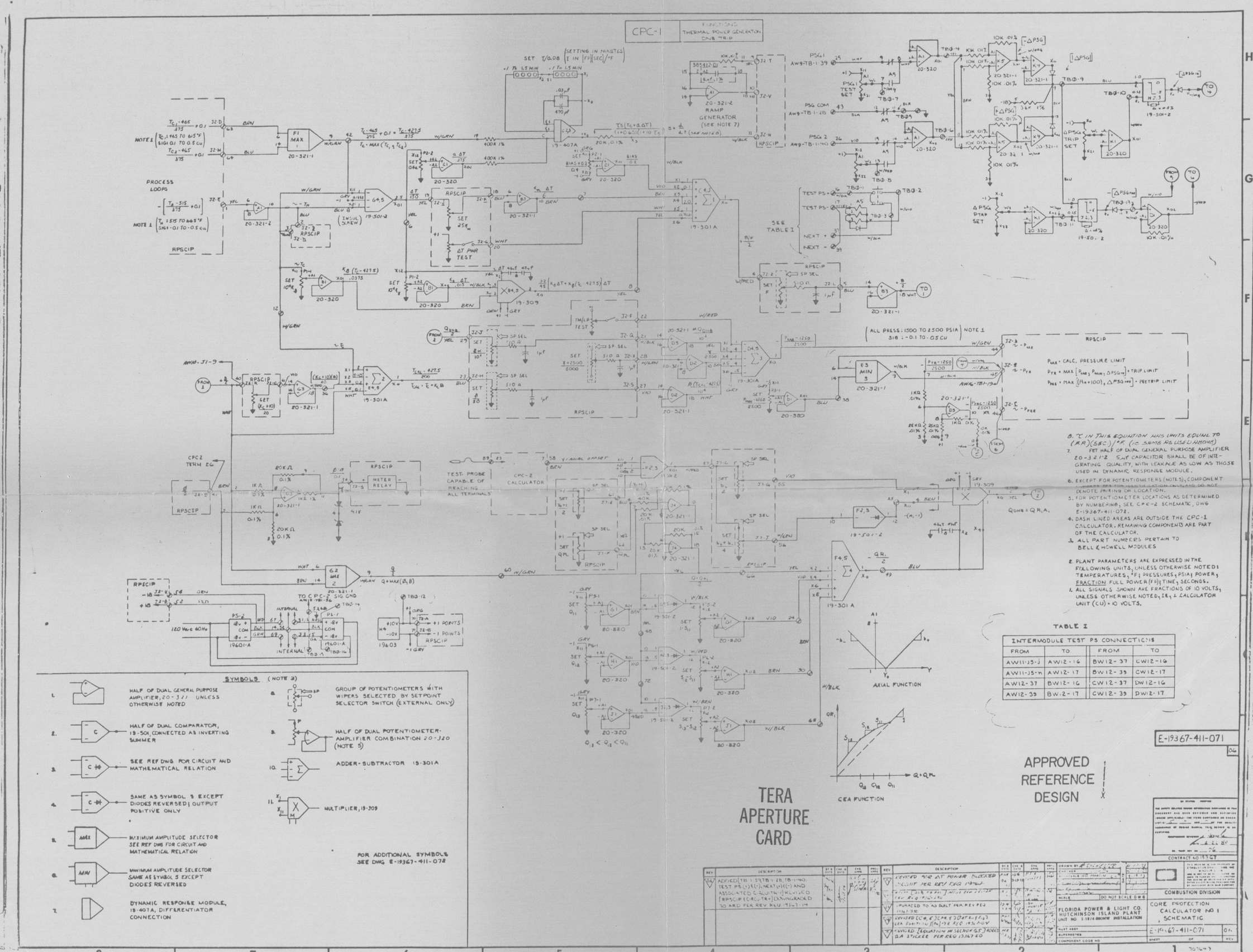
CPC-1	FUNCTIONS: THERMAL POWER GENERATION; DNB TRIP



SYMBOLS (NOTE 3)

1. HALF OF DUAL GENERAL PURPOSE AMPLIFIER, 20-321 UNLESS OTHERWISE NOTED
2. HALF OF DUAL COMPARATOR, 19-501 CONNECTED AS INVERTING SUMMER
3. SEE REF DWG FOR CIRCUIT AND MATHEMATICAL RELATION
4. SAME AS SYMBOL 3 EXCEPT DIODES REVERSED; OUTPUT POSITIVE ONLY
5. MAXIMUM AMPLITUDE SELECTOR SEE REF DWG FOR CIRCUIT AND MATHEMATICAL RELATION
6. MINIMUM AMPLITUDE SELECTOR SAME AS SYMBOL 5 EXCEPT DIODES REVERSED
7. DYNAMIC RESPONSE MODULE, 19-407A, DIFFERENTIATOR CONNECTION
8. GROUP OF POTENTIOMETERS WITH WIPERS SELECTED BY SETPOINT SELECTOR SWITCH (EXTERNAL ONLY)
9. HALF OF DUAL POTENTIOMETER-AMPLIFIER COMBINATION 20-320 (NOTE 5)
10. ADDER-SUBTRACTOR 19-301A
11. MULTIPLIER, 19-309

FOR ADDITIONAL SYMBOLS SEE DWG E-19367-411-072

8. Σ IN THIS EQUATION HAS UNITS EQUAL TO (IN.R)(SEC)/°F. (IE. SAME AS USED ABOVE)
7. FET HALF OF DUAL GENERAL PURPOSE AMPLIFIER 20-321-2 .5 μF CAPACITOR SHALL BE OF INTEGRATING QUALITY, WITH LEAKAGE AS LOW AS THOSE USED IN DYNAMIC RESPONSE MODULE.
6. EXCEPT FOR POTENTIOMETERS (NOTE 5), COMPONENT NUMBERS PERTAIN TO LOCATION ONLY AND DO NOT DENOTE PAIRING OR LOCATION.
5. FOR POTENTIOMETER LOCATIONS AS DETERMINED BY NUMBERING, SEE CPC-2 SCHEMATIC, DWG E-19367-411-072.
4. DASH LINED AREAS ARE OUTSIDE THE CPC-1 CALCULATOR. REMAINING COMPONENTS ARE PART OF THE CALCULATOR.
3. ALL PART NUMBERS PERTAIN TO BELL & HOWELL MODULES
2. PLANT PARAMETERS ARE EXPRESSED IN THE FOLLOWING UNITS, UNLESS OTHERWISE NOTED: TEMPERATURES, °F; PRESSURES, PSIA; POWER, FRACTION FULL POWER (FP); TIME, SECONDS.
1. ALL SIGNALS SHOWN ARE FRACTIONS OF 10 VOLTS, UNLESS OTHERWISE NOTED, IE, 1 CALCULATOR UNIT (CU) = 10 VOLTS.

TABLE I

INTERMODULE TEST PS CONNECTIONS

FROM	TO	FROM	TO
AW11-J5-j	AW12-16	BW12-37	CW12-16
AW11-J5-n	AW12-17	BW12-39	CW12-17
AW12-37	BW12-16	CW12-37	DW12-16
AW12-39	BW12-17	CW12-39	DW12-17

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APPROVED REFERENCE DESIGN

TERA APERTURE CARD

REV	DESCRIPTION	BY & DATE	CHK & DATE	ENG APPR	PROJ APPR
07	ADDED TB 1-39 TO TB 1-28, TB 1-140. TEST PB (+) & (-), NEXT (+) & (-) AND ASSOCIATED C & CW (17-) REVISED [RPSCIP (CIRCUITRY)] DOWNGRADED TO ARD PER REV 8&W 1936-1-119				

REV	DESCRIPTION	BY & DATE	CHK & DATE	ENG APPR	PROJ APPR
06	REVISED PER AT POWER BLOCKED CIRCUIT PER REV REQ 13960				
05	[illegible] PER REV REQ 13960				
04	UPGRADED TO AS BUILT PER REV REQ 11767-330				
03	REVISED [C⊕, 6] [C⊕, 5] TO [T-1, T-2] CEA FUNCTION [(R)] PER REQ 13960				
02	REVISED [EQUATION IN SECTION 5.2] ADDED QA STICKER PER REQ 13367 RO				

DRAWN BY: [illegible]
CHK: [illegible]
SCALE: DO NOT SCALE DWG

COMBUSTION DIVISION

FLORIDA POWER & LIGHT CO.
HUTCHINSON ISLAND PLANT
UNIT NO. 1 (874 MBOHW INSTALLATION

CORE PROTECTION CALCULATOR NO 1 SCHEMATIC

E-19367-411-071 06

CONTRACT NO 15967

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