

SYMBOLS:
 TRANSUCER
 THERMAL CONVERTER
 NORMALLY OPEN
 ALL OTHER BREAKERS NORMALLY CLOSED

DIFFERENTIAL RELAY ZONES

- 1#2 GENERATOR NO. 2
- 1#2 MAIN TRANSFORMER NO. 2
- 1#2 STARTUP TRANSF. NO. 2/SWITCHGEAR
- 1#2 STARTUP TRANSF. 1A & 2A OVERHEAD LINE
- 1#2 STARTUP TRANSF. 1B & 2B OVERHEAD LINE
- 1#2 6.9KV BUSES
- 1#2 4.16KV BUSES (SEE NOTE 6)
- 1#2 EMERG. DIESEL GENERATORS
- 1#2 STARTUP TRANSF. 1A & 2A OVERHEAD LINE
- 1#2 STARTUP TRANSF. 1B & 2B OVERHEAD LINE
- 1#2 MAIN TRANSF. 2A & 2B TIE LINE

FOR COMPLETE SWITCHYARD ONE LINE DIAGRAM SEE DWG 8770-G-417

NOTES:

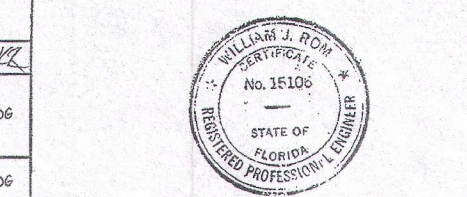
- ALL 4.16 KV SWITCHGEAR BREAKERS ARE RATED 1200A CONTINUOUS 350MVA INTERRUPTING 132,000A MOMENTARY, UNLESS OTHERWISE NOTED.
- MANUAL TRANSFER FROM STARTUP TO AUXILIARY TRANSFORMER OR VICE VERSA IS LINE BUS AUTOMATIC TRANSFER 15 FAST DEAD 1/2 FROM AUX TO ST UP TRANS. ONLY
- CLASS I EQUIPMENT NOTED REFERS TO 5EISMIC CLASSIFICATION OF STRUCTURES.
- EACH 6.9KV AND 4.16KV BUS IS PROTECTED WITH ITS OWN DIFFERENTIAL RELAY ZONE.
- ALL 6.9KV SWITCHGEAR BREAKERS ARE RATED 1200A CONTINUOUS 300 MVA INTERRUPTING CAPACITY UNLESS OTHERWISE NOTED
- THIS DIFFERENTIAL RELAY ZONE (1#1A/1#1B) IS PART OF UNIT #1 AND IS CONTINUED ON 8770-G-472(C), (C,C)
- TWO SETS OF UNDERVOLTAGE RELAYING ARE PROVIDED FOR CLASS I & II 4.16KV SWITCHGEAR 1A&2B. ONE SET PROTECTS AGAINST LOSS OF OFFSITE POWER, THE OTHER PROTECTS AGAINST DEGRADED GRID VOLTAGE. REFERENCE 1#5B-II
- CT'S FOR 4.16-480KV STATION SERVICE TRANSFORMER FEEDERS 2A2-2A5 & 2B2-2B5 ARE SIZED FOR THE MAXIMUM CONCIDENT LOAD IF THE AVAILABLE SPACE TRANSFORMER CAPACITY IS TO BE USED, THE 4.16KV BREAKER CT'S MAY HAVE TO BE UP SIZED AND THE BUS TIE CABLE AMPACITIES SHOULD NOT BE EXCEEDED UNLESS CABLES ARE REPLACED
- CIRCUIT TO BE SHED BY S1A5 SIGNAL.
- THE INTERRUPTING RATING OF BKRS. 8W49, 8W52, 8W55, 8W61, 8W64 & 8W67 IS SHOWN AS 50KA BUT CAN BE UP GRATED TO 63 KA WITH THE USE OF SHORT LINE FAULT CAPACITORS.

REFERENCE DRAWINGS:

LIST OF DRAWINGS	2998-A-416
240KV SWYD ONE LINE DIAG.	8770-G-417
CONTROL WIRING DIAGRAMS	2998-B-327
PHASING AND VOLTAGE VECTOR DIAG.	2998-G-329
POWER DISTR. & MOTOR DATA SHEETS	2998-B-335
UNIT NO.1 MAIN ONE LINE DIAGRAM	8770-G-272
STEAM GEN. BLOWDOWN TREATMENT FACILITY ONE-LINE WIRING DIAG.	9508-G-207
COMBINED MAIN & AUXILIARY ONE-LINE DIAGRAM	2998-G-272A

THE DESIGN INFORMATION FOR THE CHANGES SHOWN IN THIS REVISION HAS BEEN ENGINEERED BY FLORIDA POWER & LIGHT COMPANY.

NUCLEAR SAFETY RELATED



THIS DOCUMENT IS THE PROPERTY OF EBASCO SERVICES INCORPORATED. ITS USE IS EXPRESSLY RESTRICTED BY THE TERMS OF THE CONTRACT, DATED AS OF SEPTEMBER 11, 1975 BETWEEN EBASCO SERVICES INCORPORATED AND FLORIDA POWER & LIGHT COMPANY.

FLORIDA POWER & LIGHT COMPANY
 ST. LUCIE PLANT
 1935-990W(A) EXTENSION UNIT NO. 2
MAIN ONE LINE WIRING DIAGRAM

EBASCO SERVICES INCORPORATED NEW YORK	
SCALE: NONE	DATE
APPROVED	
DR. J. WHITE	2998-G-272
CH. J. WHITE	

17	05/14/44	REVISED: (C5-D5) TAP SETTING PER PCM 03170.	DG	1-13	ORE
16	01/28/45	REVISED MAIN GEN (G14) FT 5-CC WIRING PER CRN 0004B-9205	MZ	DG	- - JH
15	12/09/40	REV SWYD WIRING. F NOTE 10 PER CRN 02083-10258	MZ	DG	- - JH
27	9/29/75	E228398 REV: (A12) TEXT	RAH	REC	- - JH
26	11/14/72	E228991 REV: (M5) ISOPHASE BUS RATINGS. E228430 DOCUMENTS CHANGES PREVIOUSLY INCORPORATED IN REV. 23.	MZ	GM	- - DG
25	11/13/72	E224972 REV: FORCED COOLED ISOLATED PHASE BUS RATING (H5)	GM	MZ	- - DG
24	7/22/72	E227836 REV: BAY NO. 3 & 4 (A9-D3)	GM	MZ	- - DG
23	5/21/71	E223030 REV: MIN XFMR 2A & 2B RATINGS (E1E3, E4, E15 & C15)	GM	MZ	- - DG
22	4/7/71	E223020 REV: MIN XFMR 2A & 2B RATINGS (E1E4, C15)	GM	MZ	- - LHC
21	9/9/68	CRN 04201-17454: REV. KV RATINGS (A11, E11, D7 & C14)	GM	MZ	- - DG
20	6/6/67	CRN 04201-15641: REV. TRANSFORMER RATINGS (B4-D5 & F10-E12)	GM	MZ	- - DG
19	5/12/66	PCM 04029 REV: (F18-F9) NOTE 1.	GM	MZ	- - JWB
18	2-9-65	REVISED NOTE 1 (F18-F19) GENERAL REVISION CORRECTED DWG COORDS (F1, F2, E4, D5, E11)	MZ	DG	- - JWB
NO	DATE	REVISION	BY	CH	APPROVED