8770-G-274

PRESSURIZER HTR TRANSFS
EACH 750/1000KVA AA/FA, 80°C, 3Ø, 60Hz
DRY TYPE VENTILATED, 4368/4824/4160/4056/3952-480V
13.2-4.160V Z = 5.75% ON 750 KVA BASE (1A3)
Z = 5.28% ON 750 KVA BASE (1B3)
"TAP SETTING B" (4264V)

480V SWITCHGEAR 1A-1

STA. SERV. TRANSF. 1A-1
2.8 6.5% ON 1500 KVA BASE
SEE 1A-2 FOR COMPLETE RATING
"TAP SETTING D"

480V PRESSURIZER HTR BUS 1A-3

480V PRESSURIZER HTR BUS 1B-3

STA. SERV. TRANSF. 1B-1
2.8 6.5% ON 1500 KVA BASE
SEE 1A-2 FOR COMPLETE RATING
TAP SETTING D"

480V SWITCHGEAR 1B-1

480V TURBINE AREA COMMON MCC 1C

480V TURBINE AREA MCC 1A-1 | 480V RADWASTE MCC 1A-2 | 480V INTAKE MCC 1A-3 | 480V WATER TREAT MCC 1A-4 | 480V WATER TREAT MCC 1B-4 | 480V INTAKE MCC 1B-3 | 480V RADWASTE MCC 1B-2 | 480V TURBINE AREA MCC 1B-1

480V SWITCHGEAR 1A-2 (SA)

STA. SERV. TRANSF. 1A-2
1500/2000 KVA AA/FA/FOA, 3Ø, 60Hz, DRY TYPE, VENTILATED, 4368/4824/4160/4056/3952-480V. Z=9.04% ON 1500 KVA BASE "TAP SETTING D" (4056V)

480V SWITCHGEAR 1AB (SAB)

STA. SERV. TRANSF. 1B-2
Z=9.04% ON 1500 KVA BASE
SEE 1A-2 FOR COMPLETE RATING
TAP SETTING D"

480V. SWITCHGEAR 1B-2 (SB)

480V. FUEL HANDLING MCC 1A-8 (NON-ESSENTIAL SECTION / ESSENTIAL SECTION)

480V REACTOR AREA MCC 1A-5 (SA) (ESSENTIAL SECTION / NON-ESSENTIAL SECTION)

480V REACTOR AREA COMMON MCC 1AB (SAB)

480V REACTOR AREA MCC 1B-5 (SB) (NON-ESSENTIAL SECTION / ESSENTIAL SECTION)

480V DIESEL GENERATOR BLDG MCC 1A-7 (SA) (ESSENTIAL SECTION)

480V REACTOR AREA MCC 1A-6 (SA) (ESSENTIAL SECTION / NON-ESSENTIAL SECTION)

480V REACTOR AREA MCC 1B-6 (SB) (NON-ESSENTIAL SECTION / ESSENTIAL SECTION)

480V DIESEL GENERATOR BLDG MCC 1B-7 (SB) (ESSENTIAL SECTION / NON-ESSENTIAL SECTION)

SYMBOLS:

L P	LIGHTING PANEL
N/E	NON-CLASS 1E EQUIPMENT
N / E	NORMAL / EMERGENCY
I/C	INTERRUPTING CAPACITY
CLR	CURRENT LIMITING REACTOR
PP	POWER PANEL
△	DENOTES CONTACTOR WILL BE TRIPPED BY LOSS OF NORMAL STATION VOLTAGE AND WILL BE RE-ENERGIZED MANUALLY

NOTES

1. ALL 480V SWGR. BKRS ARE 600A FRAME, 30,000 A SYS. INSTANT TRIP (22000A SYM WITHOUT INSTANT TRIP) UNLESS OTHERWISE NOTED
2. ALL 480V MCC MOLD CASE BKRS ARE 100A FRAME RATED AT 14,000 A SYM INTERRUPTING UNLESS OTHERWISE NOTED. ALL MCC BUSES ARE RATED 600A CONTINUOUS & 42,000A SYM MOMENTARY
3. CLASS 1E EQUIPMENT NOTED REFERS TO ESS CLASSIFICATION OF STRUCTURES
4. SEE DWG. 8770-B-335 FOR ALL LOADS CONNECTED TO BUSES SHOWN ON THIS DWG.
5. THESE BREAKERS NORMALLY OPEN. ALL OTHER BREAKERS NORMALLY CLOSED
6. ALL THE SWGR. BREAKERS ARE EQUIPPED WITH SOLID STATE TYPE TRIP UNITS. FOR SETTINGS SEE 8770-B-335
7. THE DESIGN INFORMATION FOR THE CHANGES DENOTED BY THE SYMBOL Ⓔ AS SHOWN IN THE REVISION BLOCK WAS ENGINEERED BY FLORIDA POWER & LIGHT.

REFERENCE DRAWINGS

LIST OF DRAWINGS	8770-A-146
MAIN ONE LINE WIRING DIAGRAM	G-276
CONTROL WIRING DIAGRAMS	G-327
CABLE & CONDUIT LIST	G-328
PHASING DIAGRAM	G-329
480V MISC. 125V DC & VITAL A.C. ONE LINE	G-330
POWER DIST. & MOTOR DATA	B-335
LIGHTING PANEL DETAILS	B-400
ONE LINE DIAGRAMS	8770-G-275 SERIES
COMBINED MAIN & AUX. ONE-LINE DIAGRAM	2998-G-272A

WILLIAM WALLACE III — CERTIFICATE No. 13691 — STATE OF FLORIDA — REGISTERED PROFESSIONAL ENGINEER

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FLORIDA POWER & LIGHT COMPANY
HUTCHINSON ISLAND PLANT
1973 - 890,000 KW INSTALLATION - UNIT NO. 1

AUXILIARY ONE LINE DIAGRAM

EBASCO SERVICES INCORPORATED NEW YORK

SCALE NONE | APPROVED W. Wallace | DATE 4-16-70
DIV. ELEC | DR. J. MOORES | CH. JS/RR.V
8770-G-274

NO	DATE	REVISION	BY	CH	APPROVED
13	2-4-91	REV. (B3, B17, H4, H16) AMPS AND (J18) DWG PER PCM A10-190M Ⓔ	RBW	RP	
12	9-10-90	E.J. AUSTIN PE #0040862 ADDED: (I18) NOTE 6 & 7 REVISED: (B3 THRU B4, B13 THRU B19, H4 THRU H7, H11, H14 THRU H17) TRIP DEVICES. PER PCM 359-1890 Ⓔ	VG	DER	
11	2-7-89	REVISED: NOTES (A9 A14, H8, H12) PER PCM 141-187, 142-187, E 143-187	V.G.	TJC	
10	6-12-86	ALAN SCHILDKRAUT PE # 029986 ADDED: PP-102A(H16) PER PCM 99-185	RP		
9	2-17-83	REVISED: IMPEDANCE, RATING ON SWGR 1B-2 (G12)	TPR		
8	3-22-82	ADDED BKR (E-17) PCM 440-78 REVISED AUTO TRANSF SW (E7) & (C14) PER PCM 341-79 ADDED 4" CONDUIT NOTE			
7	11-11-75	ADDED: LP-155, LP-179, PP-156, PP-156 (K1, K19, K5, L3). REV. NOTE 2 (H15) REV. & REVISED: LP-2C, LP-2D (N4, M14) REVISED: LP-2A (L14, L15) PP-102A (M13) DELETED: PP-115 (E19)			
6	5-22-75	ADDED: PP-134 (L10) ADDED: (K5, K14, L7 & L12) (BR2, XS, L13) BACK UP BKR. (E13) TRANSFER SW. (F7 & F16) PNL sub-NOTE & SHORT SYMBOL (A5 THRU C12) PNL NO. ADDED: (E3, THRU B5, B14 THRU B19, H3 THRU H18) TRIP DEVICES (G11) NOTE 5 K2, K5, K7, K9, K12, K14, K18) STARTERS (E4, F3D, (G11, N7, E19) FUSE & XFMR (E17) XFMR. RELOCATED (E11) TRANS. SW CMCC-1C	N. MILO	R.L. Fleissner	W. Fleissner	
5	5-22-74				
4	2-23-73	ADDED: (J1 FROM SW) (J18 HR ETRANSF. (G16) SYMBOL (J18) REF DWG (L3) (L5) (L6) (L7) (L8) (L9) (L11) (L12) (L13) (M1) (B1) (H4) (M15) (M16) REVISED: (C13) (D11) (D13) (G10) (H10) (M5) (M9) (B16) BKR NAME PLATE RATING NOTE 4 (L3) (L5) (L7) (L8) (L9) (L11) (L12) (L13) (B1) (B16) (H4) PNL RATING (L7) DELETED PNL	G. LINGLEDOW		
3	10-18-71	RELOCATED: LP 126 & LP 116 REVISED: REACTOR RATING (K12)			
2	10-6-71	ADDED PP108 & PP109 ADDED SPARE CB 1A-1, 1A5, 1B-1, 1B-2 REVISED CT TO 6C, CT TO 2000/5. RELOCATED: LP105, PP101, PP102 ADDED: LP106, PP107-LP126 & LP124 RELOCATED: LP 116 PP102 PP106 BATT CHGR DELETED LP-118, LP-125 WAS LP-119 REV. RATINGS AS SHOWN	G. SMITH	J.T. PLUTZ	
1	1-26-71	ADDED: CT'S POWER PANELS, MAINT. BY PASS TRANSFR., TRANSF RATINGS, REF. DWG. INST. REVISED: LIGHTING PANELS (NOS MCC NOS, MCC BUS. 1A-5, 1A-6, 1B-5, 1B-6 FEED TO TURB. MCC 1C	HAIR	R.A.	

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