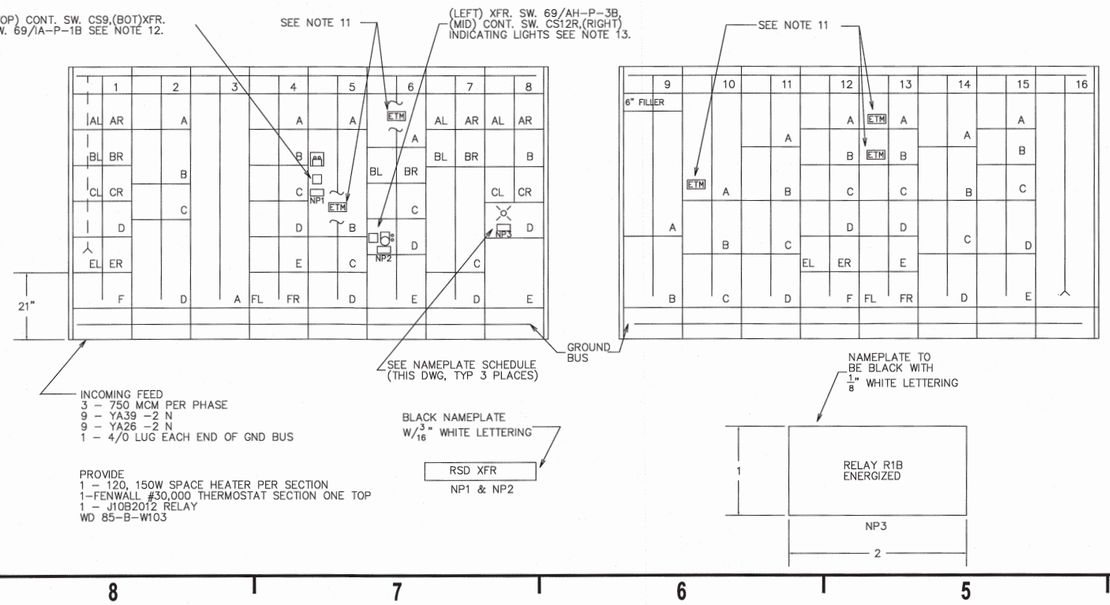
DWG.NO.	201-044	SH.	1

REVISIONS

REV	ZONE	DESCRIPTION
39	VAR	REVISED TO INCORPORATE ECR 14-00091 REV.001 (RCM TECHNOLOGIES)

UNIT NO.	CIRCUIT IDENTIFICATION	LOAD H.P. KW KVA	LOAD RPM.	LOAD AMPS F.L.	LOAD AMPS L.R.	BREAKER FRAME SIZE	BREAKER SET.	BREAKER AMP RATING	STARTER SIZE	STARTER REV. OR N.R.	STARTER HTR.	AUX. SWS. N.O.	AUX. SWS. N.C.	CONT. PWR. TR.	WIRE SIZE	GAI ELEM. DWG.	I.T.E. IMPERIAL HT.	I.T.E. IMPERIAL WIRE DIA.	I.T.E. IMPERIAL ABC CONT FUSE	REMARKS	NOTES
1AL	FEEDER B INVERTER AC	15KVA				HE3		M030							#8		12			ENGD. SFGDS.	
1AR	FEEDER B BATTERY CHARGER	41A				HE3		M070							#4					ENGD. SFGDS.	
1BL	FEEDER D INVERTER AC	15KVA				HE3		M030							#8		12			ENGD. SFGDS.	
1BR	FEEDER D BATTERY CHARGER	41A				HE3		M070							#4					ENGD. SFGDS.	
1CL	FEEDER F STANDBY BATTERY CHARGER	41A				HE3		M070							#4		12				
1CR	120V. 1ø VOLT REGULATING TRANSF. B	20KVA				HE3		M060							#6						
1D	B AIR CLG. FAN FOR D.H. & N.S. PP. AH-E-15B	3	1800	4.5		HE3	4	A010	1	N.R.	H34	2	3	150	#10	SS-208-630	12	A-18	1	ENGD. SFGDS.	7
1EL	HYDROGEN ANALYZER CAB CHANNEL B (AE-42B)					HE3		M015									12				
1ER	SPARE																				
1F	BORIC ACID MIX TANK HEATER 1B	25KVA				HFD3		040	2	N.R.		3	2	100	#3	SS-209-345	12	A2-15	1	CONTACTOR	7
2A	C MAKEUP PUMP MAIN OIL PUMP MU-P-3C	1/2	3600	0.95		HE3	LO	A010	1	N.R.	H17	2	2	75	#10	SS-208-562	12	A1-14	1	ENGD. SFGDS.	7
2B	SPACE																18			18' FUTURE	
2C	BORIC ACID PUMP CA-P-1B	2	1800	3.5		HE3	2	A010	1	N.R.	H30	2	2	75	#10	SS-209-346	12	A-15	1		7,10
2D	FEEDER - SUBSTATION CONTROL POWER TRANSFER SW.B					KM3	2	B300							2-350 MCM		30				8
3A	B REACT. BLDG. VENT. UNIT FAN AH-E-1B	150 / 75	1200 / 600	173 / 113		JKL	2	L400	5	2-S N.R.	SEE NOTE 16			350	350 MCM	SS-208-561	72	F	ATDR5	ENGD. SFGDS.	3,4,7,9
4A	EMERG. F.W. PP. RM. A SUMP PP. B SD-P-3B	1	1800	1.7		HE3	LO	A010	1	N.R.	H23	2	2	75	#10	SS-208-597	12	A1-14	1		7
4B	EMERG. F.W. PP. RM. B SUMP PP. B SD-P-4B	1	1800	1.7		HE3	LO	A010	1	N.R.	H23	2	2	75	#10	SS-208-597	12	A1-14	1		7
4C	R.C.P. 1B HIGH PRESS. OIL LIFT PP. RC-P-2B-1	12	1750	14.6	102.5	HE3	HI	A025	1	N.R.	FH45	2	3	75	#10	SS-208-530	12	A-18	1		7
4D	R.C.P. 1D HIGH PRESS. OIL LIFT PP. RC-P-2D-1	12	1750	14.6	102.5	HE3	HI	A025	1	N.R.	FH45	2	3	75	#10	SS-208-530	12	A-18	1		7
4E	SPARE					HE3	4	A025	1	N.R.		2	2	75			12	A-14	1		7
4FL	LIGHTING PANEL CT-1 (EMERGENCY)	16KW				HE3		M030							#8		12				
4FR	INTMD. BLDG. INST. AIR COMPRESSOR IA-P-2B	5						M015							#10	SS-208-712					
5A	B AUX. BLDG. SUMP PUMP WDL-P-5B	7 1/2	1800	10.5	61.5	HE3	3	A025	1	N.R.	H43	2	2	75	#10	SS-209-167	12	A1-14	1		7
5B	B INSTRUMENT AIR COMPRESSOR IA-P-1B	60	1800	72	450	JKL	4	A225	4	N.R.	H86	2	3	250	#2	SS-208-572	36	A1-18	3	SEP. REQ'D	6,7,14
5C	CONTROL BUILDING BOOSTER FAN AH-E-95B	1 1/2	1200	3.0		HE3	LO	A025	1	N.R.	FH32	2	2	75	#10	SS-208-673	12	A-14	1	ENGD. SFGDS.	7
5D	SPACE																12			12" FUTURE	

39 39



NOTES:

1. FOR GENERAL NOTES AND INDEX, SEE DWG. 201-039.
2. THE ENGD SFGDS NOTATION IN REMARKS COLUMN INDICATES EQUIPMENT THAT IS CONSIDERED PART OF THE ENGINEERED SAFEGUARDS SYSTEM WHICH REQUIRES THE ROUTING OF CABLES IN PHYSICALLY SEPARATED CHANNELS EXTERNAL TO THE CONTROL CENTER.
3. 2 SPEED - 1 WIND.
   PROVIDE: 2 - BF33F CONTROL RELAYS (SX AND FX)
   1 - G.E. RED F.V. PILOT LIGHT
   1 - G.E. GREEN ILLUM. P.B.
   1 - G.E. KEY OP 2-POS SEL SW "REM - SLOW"
   1 - A103C12 S/1 CONTACTOR
   2 - C.H. C306 BI-METAL 3P AMB COMP OL RELAY
   2 - C.H. AA11P S/1 1P AMB COMP OL RELAY
   1 - ITE TKM-1 CT 300/5A RATIO NO. 401181-T4 (NOT USED)
   1 - ATDR5 CPT FUSE
   1 - D13T41107 75VA CPT
4. CABLE SIZE CHANGES TO #4/0 ON REACTOR BUILDING SIDE OF PENETRATION.
5. THE "SEP REQ'D" NOTATION IN REMARKS COLUMN INDICATED EQIPMENT WHICH REQUIRES ROUTING OF CABLE IN PHYSICALLY SEPARATED CHANNELS OUTSIDE THE CONTROL CENTER BUT DOES NOT RECEIVE AN ENGINEERED SAFEGUARDS SIGNAL TO THE CONTROL CIRCUIT.
6. SIZE 4 STARTERS AND CONTACTORS TO HAVE COILS SIMILAR TO NO.G105F126, EXCEPT WITH CLASS "H" INSULATION.
7. ALL STARTER AND CONTACTOR COILS TO BE QUALIFIED FOR CONTINUOUS DUTY AT 140°F.
8. PROVIDE BULL DOG 600A BACKSTAB NO. 100101.
9. ALARM HEATERS: HI = FH26, LO = FH21.
10. CR2940 SELECTOR SWITCH KEY IS REMOVABLE IN AUTO POSITION ONLY.
11. ELAPSED TIME METER - WESCHLER TYPE GH332, CATALOG NO. 671 B 375-A09.
12. (CS9) ELECTRO SWITCH TYPE 20P CONTROL SWITCH WITH RED & GREEN LIGHTS. (69/IA-P-1B) ELECTRO SWITCH TYPE 20K SELECTOR SWITCH.
13. (CR12R) GE CR2940 CONTROL SWITCH WITH ET-16 RED & GREEN LIGHTS. (69/AH-P-3B) ELECTRO SWITCH TYPE 20K SELECTOR SWITCH.
14. MOUNT GOULD CLASS J10 2 POLE RELAY INSIDE COMPARTMENT 5B - 2" FROM LEFT SIDE AND 17" FROM BOTTOM TO CENTER OF RELAY.
15. ADDITIONAL SUPPORT INSULATORS HAVE BEEN ADDED TO UPGRADE THE SHORT-CIRCUIT RATING OF THESE BUSS BARS, SEE GPUN DWG. 1D-733-15-003.
16. SET FAST SPEED TRIP TOL (H2007B-3) AT 65% OF THE WAY FROM B TO C ON KNOB. SET SLOW SPEED TRIP TOL (H2006B-3) AT 26% OF THE WAY FROM A TO B ON KNOB.

Cad File Name : 201044_S1_R39

NO.	DWG. NO.	TITLE
		REFERENCES

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Exelon. Nuclear

M.WILSON 1/13/16 DRAWN DATE
1/13/16 CHECKER DATE
N/R RESPONSIBLE ENGINEER DATE 1/13/16
ENGINEERING MANAGER DATE
INTERFACING CONCURRENCE

ELECTRICAL
480V. CONTROL CENTER
1B ENGINEERED SAFEGUARDS

TMI-1 | DWG. NO. 201-044 | SHEET 1 | REV. 39
SCALE: NONE