

UNIT NO.		CIRCUIT IDENTIFICATION		LOAD		BREAKER		STARTER		AUX. SWS.		CONT. PWR. TR.	WIRE SIZE	GAI ELEM. DWG.	I.T.E. IMPERIAL			REMARKS	NOTES
				H.P. KW KVA	RPM.	AMPS F.L. L.R.	FRAME SIZE	SET.	AMP RATING	SIZE	REV. OR N.R.	HTR.	N.O.	N.C.	HT.	WIRE DIA.	ABC CONT FUSE		
1AL		FEEDER - A INVERTER AC		15KVA			HE3		M030									ENG'D. SFGDS.	
1AR		FEEDER - A BATTERY CHARGER		41A			HE3		M070									ENG'D. SFGDS.	
1BL		FEEDER - C INVERTER AC		15KVA			HE3		M030									ENG'D. SFGDS.	
1BR		FEEDER - C BATTERY CHARGER		41A			HE3		M070									ENG'D. SFGDS.	
1CL		FEEDER - E STANDBY BATTERY CHARGER		41A			HE3		M030									ENG'D. SFGDS.	
1CR		FEEDER - E INVERTER AC		15KW			HE3		M030									ENG'D. SFGDS.	
1DL		FDR.-EMERG. DIESEL ENG.GEN. 1A AIR START COMPR. EG-P-1A		5			HE3		M015									ENG'D. SFGDS.	
1DR		120V. 1Ø REGULATING TRANSFORMER 1A		20KVA			HE3		M060									ENG'D. SFGDS.	
1EL		TRANSFER SWITCH SW-D26		50			HE3		M015									ENG'D. SFGDS.	
1ER		TURB. BLDG. INST. AIR COMPRESSOR 1A-P2A		5			HE3		M015									ENG'D. SFGDS.	
1F		AIR COOLING FAN FOR DH & NS PP. AH-E-15A		3	1800	4.5	HE3	4	A010	1	N.R.	H34	2	2	75	#10	SS-208-630	ENG'D. SFGDS.	8
2A		D.G. NORTH SUPPLY FAN AH-E-29A		25	1800	32.5	HE3	2	H050	2	N.R.	FH55	2	3	150	#5	SS-208-628	ENG'D. SFGDS.	8
2B		EMER. F.W. PUMP SUCTION HDR. VV. EFV-1A		.125	1800	.55	HE3	LO	A010	1	REV.	H10	2/2	2/2	150	#10	SS-208-422	SEP. REQ'D. 40W*	8
2C		REACT. BLDG. EMERG. CLR. C. OUTLET VV. RRV-4C		1	1800	2.8	HE3	2	A010	1	REV.	FH28	2/2	2/2	150	#10	SS-208-508	ENG'D. SFGDS. 65W*	8
2D		EMERG. F.W. PUMP DSHG. HDR. VV. EFV-2A		1.67	1800	4.0	HE3	3	A010	1	REV.	FH30	2/2	2/2	150	#10	SS-208-422	SEP. REQ'D. 65W*	8
3A		A REACTOR BLDG. VENT UNIT FAN AH-E-1A		150	75	1200	660	173	JKL	2	L400	5	2-S N.R.	SEE NOTE 13	350	350 MCM	SS-208-561	ENG'D. SFGDS.	3,4,8,10
4A		A AUX. BLDG. SUMP PUMP WDL-P-5A		7 1/2	1800	10.5	HE3	3	A025	1	N.R.	H43	2	3	75	#10	SS-209-166	ENG'D. SFGDS.	8
4B		A INSTRUMENT AIR COMP. 1A-P-1A		60	1800	72	JKL	4	A225	4	N.R.	H86	2	3	250	#2	SS-208-572	SEP. REQ'D.	7,8
4C		EMERG. F.W. PUMP RM. A SUMP PUMP A SD-P-3A		1	1800	1.7	HE3	LO	A010	1	N.R.	H23	2	2	75	#10	SS-208-597	ENG'D. SFGDS. 65W*	8
4D		EMERG. F.W. PUMP RM. B SUMP PUMP A SD-P-4A		1	1800	1.7	HE3	LO	A010	1	N.R.	H23	2	2	75	#10	SS-208-597	ENG'D. SFGDS. 65W*	8
5AL		FEEDER - TURB. BLDG. LTG. PNL. TB-1, 2 & 3 (EM)		10KW			HE3		M030									ENG'D. SFGDS.	
5AR		FEEDER - CONT. BLDG. LTG. PNL. CT-2 (EM)		21KW			HE3		M030									ENG'D. SFGDS.	
5B		A SPENT FUEL CLG. PP. AIR UNIT AH-E-8A		2	1800	2.88	HE3	2	A010	1	N.R.	H29	2	3	150	#10	SS-208-669	SEP. REQ'D.	8
5CL		HYDROGEN ANALYZER CAB CHANNEL A (AE-42A)					HE3		M015									ENG'D. SFGDS.	
5CR		FEEDER - HR-R1 HYDROGEN RECOMBINER					HE3		M100									ENG'D. SFGDS.	
5DL		HEATING COIL AH-C-184A FOR HEATING UNIT AH-E-29A		34.5KW			HE3		M050									ENG'D. SFGDS.	
5DR		CONTROL TOWER INSTRUMENT AIR COMPRESSOR AH-P-8A/B		(2) 1			HE3		M015									ENG'D. SFGDS.	
5EL		DIESEL GEN. A A.C. FUEL PUMP DF-P-1A		1/2			HE3		M015									ENG'D. SFGDS.	
5ER		FEEDER - 480V RECEPTACLES D1, D2					HE3		M070									ENG'D. SFGDS.	
5F		CONTROL BUILDING BOOSTER FAN A AH-E-95A		1 1/2	1200	3.0	HE3	LO	A025	1	N.R.	FH32	2	2	75	#10	SS-208-673	ENG'D. SFGDS.	8

DWG.NO. 201-043SH. 11

REV. ZONE DESCRIPTION  
44 D-6 REVISED TO INCORPORATE ECR 15-00311 REV. 0

NOTES:

1. FOR GENERAL NOTES AND INDEX, SEE DWG. 201-039.

2. THE ENG'D 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. CR 2940 RED P.L.  
1 - G.E. GRN ILLUM P.B. "STOP"  
1 - G.E. KEY OP. 2-POS SEL SW "REM - SLOW"  
1 - A103C12 S/I CONTACTOR  
2 - C.H. C306 BI-METAL 3P AMB COMP OL RELAY  
2 - C.H. #AA11P S/I 1P AMB COMP OL RELAY  
1 - ITE TKM-1 CT 300/5A RATIO # 401181-T4 (NOT USED)  
1 - 75VA OPT #D13T41107 480-120V.  
1 - ATRDS OPT FUSE

4. CABLE SIZE CHANGES TO #4/0 ON REACTOR BUILDING SIDE OF PENETRATION.

5. THE SEP REQ'D NOTATION IN REMARKS COLUMN INDICATES EQUIPMENT 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. (DELETE)

7. SIZE 4 STARTERS AND CONTACTORS TO HAVE COILS SIMILAR TO NO.G105F126, EXCEPT WITH CLASS "H" INSULATION.

8. ALL STARTER COILS TO BE QUALIFIED FOR CONTINUOUS DUTY AT 140F.

9. "REPLACE PLU3 BLOCK WITH PLU111."

10. ALARM HEATERS: HI = FH26, LO = FH21.

11. ELAPSED TIME METER - WESCHLER TYPE GH332, CATALOG NO. 671 B 375-A09.

12. ADDITIONAL SUPPORT INSULATORS HAVE BEEN ADDED TO UPGRADE THE SHORT-CIRCUIT RATING OF THESE BUSS BARS, SEE GPUN DWG. 1D-733-15-003.

13. 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.

14. IEC/ECR 14-00138 APPROVED CHANGE OF AH-E-29A WITH SCN 200-47736 WHICH HAS FL AMP RATING OF 50 AND 1770 RPM.

PLACARDS

1 "CAUTION BREAKER IS LOCKED OPEN TO PREVENT ACCIDENTAL BUS OVERLOAD DURING PLANT OPERATION. CONTACT MANAGER OF PLANT OPERATIONS FOR PERMISSION TO USE BREAKER. SEE OP 1102-2 AND 1107-2."

2 EG-Y-6 TIE-IN ONLY (OPEN DURING NORMAL OPS)

\* VALVE HEATERS REMOTE

HORIZONTAL BUS 1200A  
VERTICAL BUS 600A

SEE PLACARD 2

Cad File Name : 201043\_S1\_R44  
REVISION 25 OF THIS DRAWING WAS REDRAWN FROM GAI 201-043 SH. 1 REV. 24.

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY

Exelon  
Nuclear

ELECTRICAL  
480V. CONTROL CENTER  
1A ENGINEERED SAFEGUARDS

R.J. Wassner 08/05/15  
DRAWN DATE  
9/18/15  
CHECKER DATE  
N/R  
RESPONSIBLE ENGINEER DATE  
9/18/15  
ENGINEERING MANAGER DATE

TMI-1

DWG. NO. 201-043  
SCALE: NONE

SHEET 1  
REV. 44

INTERFACING CONCURRENCE

INCOMING LINE 3-750 MCM PER PHASE  
MAIN LUGS-8-YA39 -2 N  
GND. LUGS-9-YA26 -2 N  
PROVIDE 1 - BULLDOG #3041, 4/0 WIRE GRIP EACH END OF GROUND BUS.  
PROVIDE 1 - 120V, 150W SPACE HEATER PER SECTION  
1 - FENWALL #30,000 THERMOSTAT AND J10A2012 TOP OF SECTION ONE SEE 85-B-W103

BLACK NAMEPLATE W/3/16" WHITE LETTERING  
INTERLOCK BYPASS IC-P-1A  
NP 3

NAMEPLATES NP1 & NP2 TO BE BLACK WITH 1/8" WHITE LETTERING  
RELAY R1A ENERGIZED  
RELAY R2A ENERGIZED  
NP1 NP2

D

C

B

A

D

C

B

A