REVISIONS		
REV	ZONE	DESCRIPTION
31	VAR	REVISED TO INCORPORATE ECR 14-00320, REV. 0.

LEGEND:

▽	– DEVICES MOUNTED ON VERTICAL PANEL PCL
□	– DEVICES MOUNTED ON CONTROL CONSOLE CR IN MAIN CONTROL ROOM
●	– DEVICES MOUNTED ON DIESEL GENERATOR CONTROL GAUGE PANEL ON SKID
○	– DEVICES MOUNTED IN DIESEL GENERATOR A SKID MOUNTED CONTROL PANEL
102	– DEVICES MOUNTED IN 4160V ID SWITCHGEAR (ES) UNIT 2
FDT	– DIESEL GENERATOR 1B FUEL OIL DAY TANK
32 (RPR)	– REVERSE POWER RELAY FOR ANTI-MOTORING PROTECTION, SINGLE-PHASE, WESTINGHOUSE TYPE CRN1
40Q (FFR)	– FIELD FAIL RELAY FOR LOW EXCITATION PROTECTION, THREE-PHASE, WESTINGHOUSE TYPE KLF-1
43	– SELECTOR SWITCH, EXCITER CONTROL, MANUAL/AUTO
46Q	– NEGATIVE SEQUENCE CURRENT RELAY FOR UNBALANCED FAULT PROTECTION, WESTINGHOUSE TYPE COQ, CATALOG NO. 1876175
49B (TOR)	– THERMAL OVERLOAD RELAY FOR OVERLOAD PROTECTION, ABB ITE-49
59 (0V1, 2, 3)	– OVERVOLTAGE RELAYS FOR NORMAL VOLTAGE DETECTION, SINGLE-PHASE, ABB ITE-59N
59C(OV)	– OVERVOLTAGE RELAY FOR EXCITER SHUTDOWN, SINGLE-PHASE, WESTINGHOUSE TYPE CV-7
59X 1,2,3	– AUXILIARY RELAYS FOR VOLTAGE DETECTION, WESTINGHOUSE TYPE MG-6
59GX	– AUXILIARY RELAYS FOR VOLTAGE DETECTION, WESTINGHOUSE TYPE SG
64F (FGR)	– FIELD GROUND RELAY FOR GENERATOR FIELD PROTECTION, WESTINGHOUSE TYPE DGF
64G (SGG)	– SYSTEM GROUND OVERCURRENT RELAY FOR GROUND FAULT PROTECTION, WESTINGHOUSE TYPE CO6
69X1	– AUXILIARY RELAYS FOR REMOTE SHUTDOWN SYSTEM ISOLATION
76F (FOC)	– FIELD/OVERCURRENT RELAY, DIRECT CURRENT RELAY FOR FIELD PROTECTION, WESTHOUSE TYPE D3
76FX	– AUXILIARY RELAY FOR FIELD OVERCURRENT RELAY, CLARK PM-714UPA
81 (UF1, 2, 3)	– UNDERFREQUENCY RELAYS, FOR NORMAL FREQUENCY DETECTION, SINGLE-PHASE, ABB ITE-81
81X1, 2, 3	– AUXILIARY RELAYS FOR FREQUENCY DETECTION, WESTINGHOUSE TYPE MG-6
FCH	– AUXILIARY RELAY FOR FUEL OIL TRANSFER PUMP (AC), WESTINGHOUSE TYPE SG
FCL	– AUXILIARY RELAY FOR FUEL OIL TRANSFER PUMP (AC), WESTINGHOUSE TYPE SG
FLH	– AUXILIARY RELAY, DAY TANK HIGH, FOR FUEL OIL TRANSFER PUMP (DC), WESTINGHOUSE TYPE MG-6
FLL	– AUXILIARY RELAY, DAY TANK LOW, FOR FUEL OIL TRANSFER PUMP (DC) WESTINGHOUSE TYPE SG
X(TS1, 2, 3)	– WESTINGHOUSE TYPE FT-1 TEST SWITCH
X	– INDICATES SLIDING LINK TERMINAL BLOCK, SHORTING PINS TO BE USED WHEN WORKING ON THE METERING CIRCUITS
⊗	– MALE BANANA TEST JACKS

NOTES:

1. ALL DEVICES WITHOUT LOCATION MARK ARE MOUNTED IN ELECTRICAL EQUIPMENT CABINET, OFF SKID IN THE ADJACENT ROOM.
2. FOR DIESEL ENGINE CONTROL CIRCUITS FOR DIESEL GENERATOR B, SEE COLT INDUSTRIES DWG. 11865841, SHEET 1B.
3. THIS DRAWING IS REPRODUCED FROM COLT INDUSTRIES DWG. 01760240, SHEETS 1 AND 2 AND GAI DWGS. SS-208-219, SS-208-220, AND SS-208-221.
4. THIS DRAWING APPLIES TO DIESEL GENERATOR 1A ONLY. FOR DIESEL GENERATOR 1B, SEE COLT INDUSTRIES DWG. 01760240, SHEET 1B.
5. FOR ANNUNCIATOR WINDOW ASSIGNMENTS AND CONNECTIONS ONLY, SEE COLT INDUSTRIES DWG. 01760240, SHEET 2.
6. FOR ALARM CIRCUITS, SEE COLT INDUSTRIES DWG. 11865841, SHEET 2.
7. FOR AC AND DC AUXILIARY PUMP CIRCUITS, SEE COLT INDUSTRIES DWG. 11865841, SHEET 3A.
8. 59G RELAY SEAL-IN CONTACT IS DISCONNECTED SO THAT 59G CONTACT RESETS WHEN VOLTAGE DROPS BELOW SETPOINT.
9. 59 RELAY TARGET LIGHTS ARE BLACKED OUT AND ARE NOT REQUIRED TO BE FUNCTIONAL.
10. 49B RELAY TEST LED BLACKED OUT AND NOT REQUIRED TO BE FUNCTIONAL.

NO.	DWG. NO.	TITLE
REFERENCES		

Cad File Name : 01760240_S1A_R31

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY

Exelon Nuclear / COLT IND.

METROPOLITAN EDISON
DIESEL GENERATOR 1A
3-LINE & SCHEMATIC DIAGRAM

DRAWN	DATE	DESIGNED	DATE	ENGINEERING MANAGER	DATE
R.J. Wassner	06/18/14	N/A		N/A	

DWG. NO. 01760240 | SHEET 1A | REV. 31

TMI-1 | SCALE: NONE

INTERFACING CONCURRENCE

DWG NO. 01760240 SH. 1A