

8-2 500 KV SWITCHYARD SINGLE LINE METER AND RELAY DIAGRAM

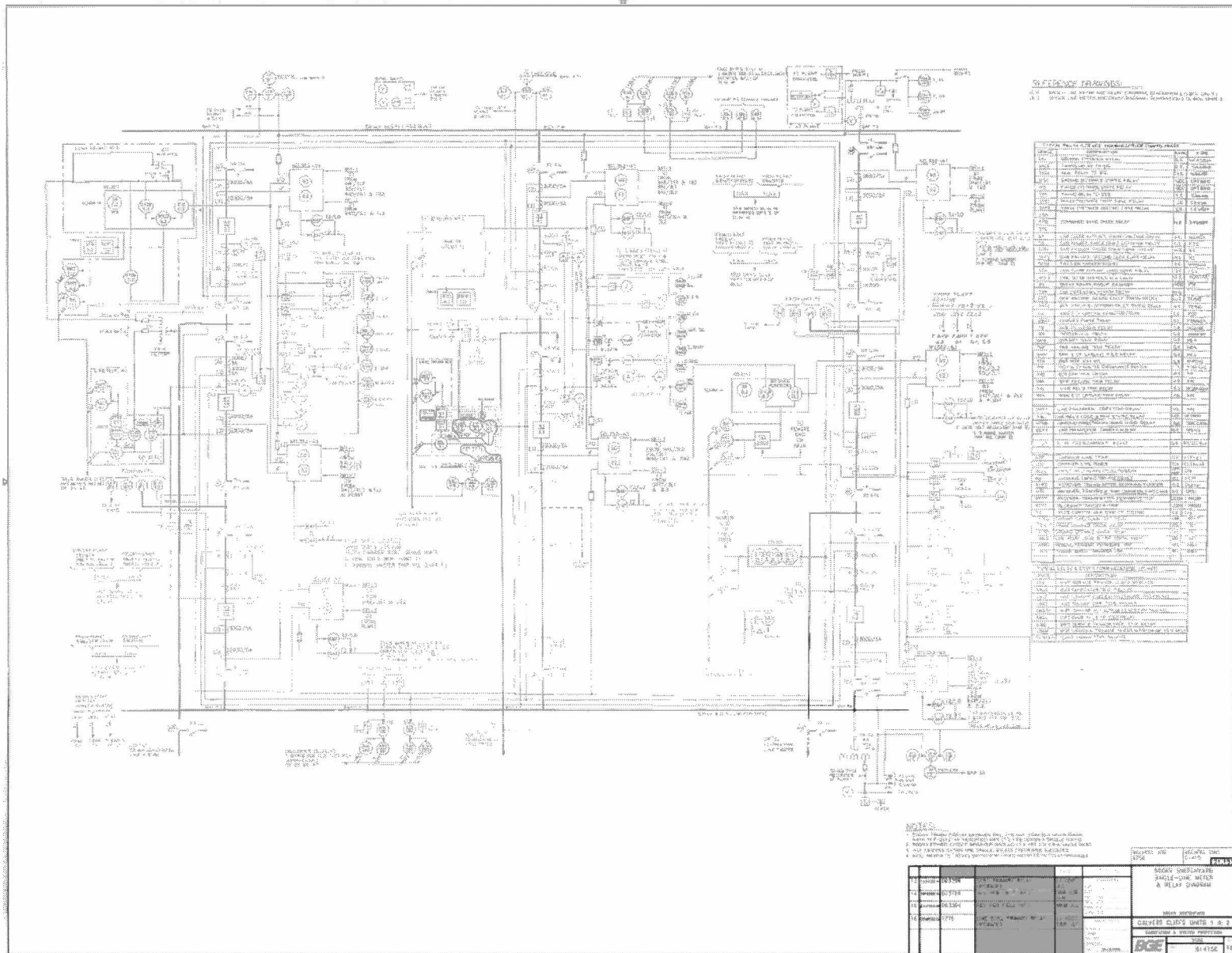
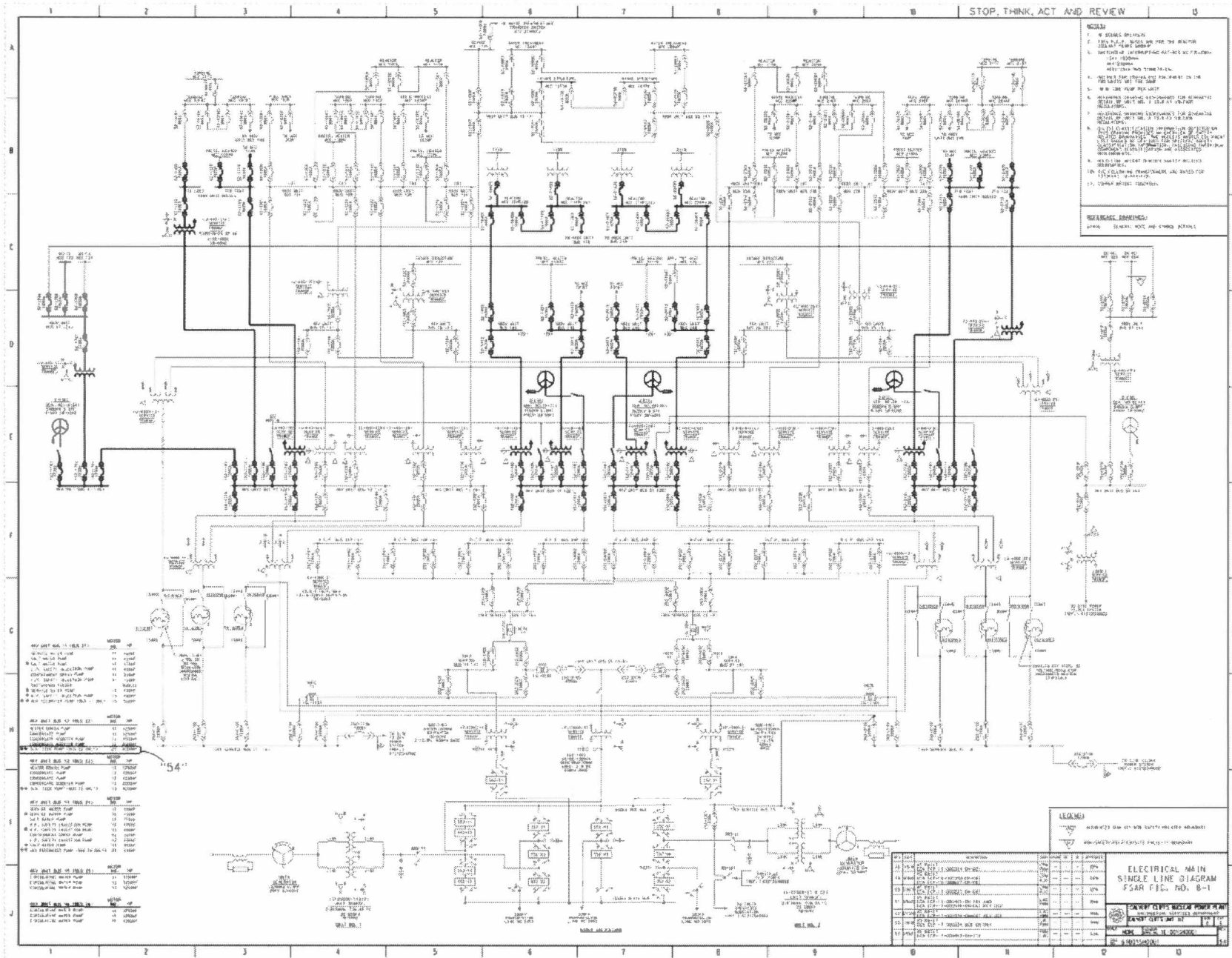
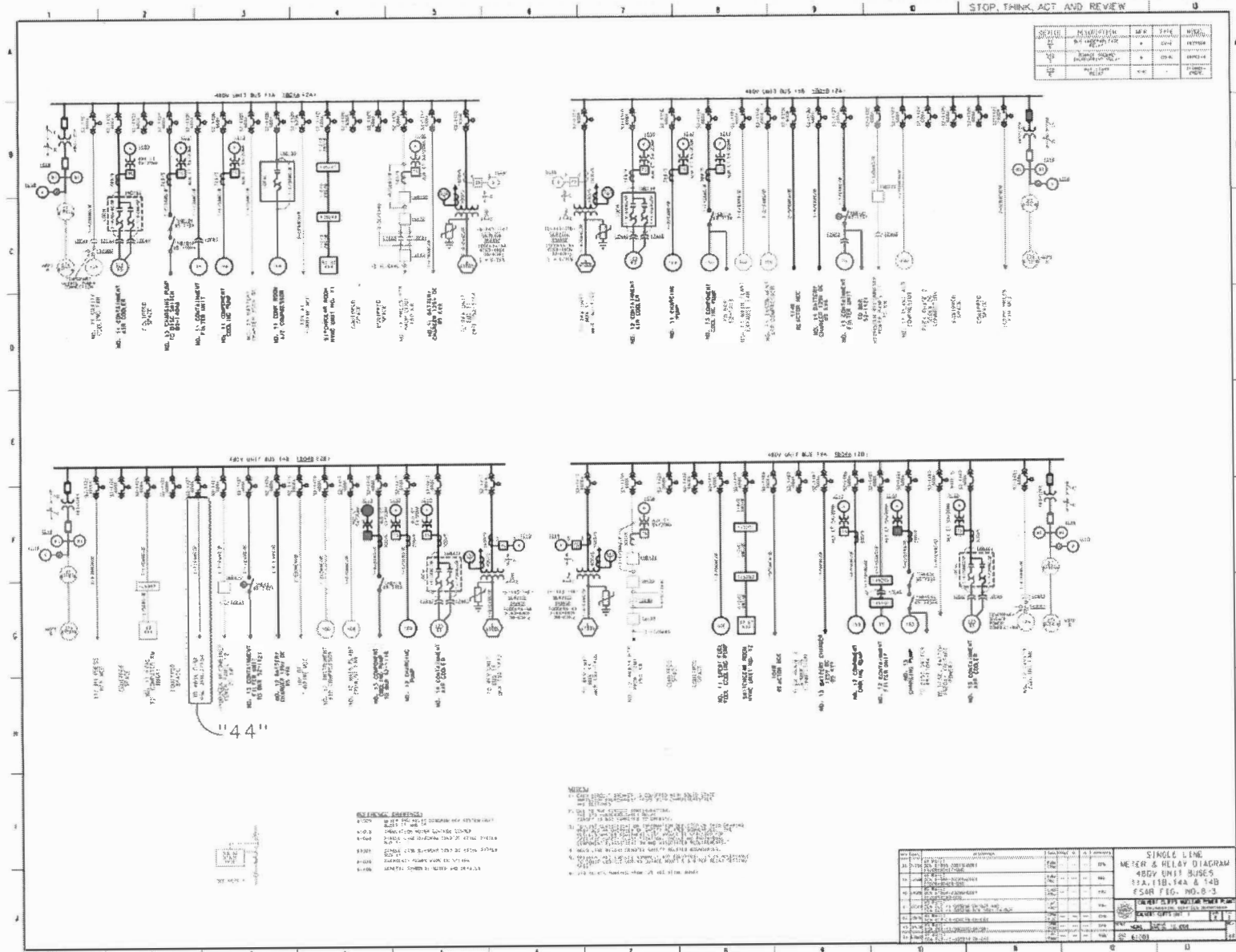


FIGURE 08-01-01 – ELECTRICAL MAIN SINGLE LINE DIAGRAM FSAR FIG NO. 8-1



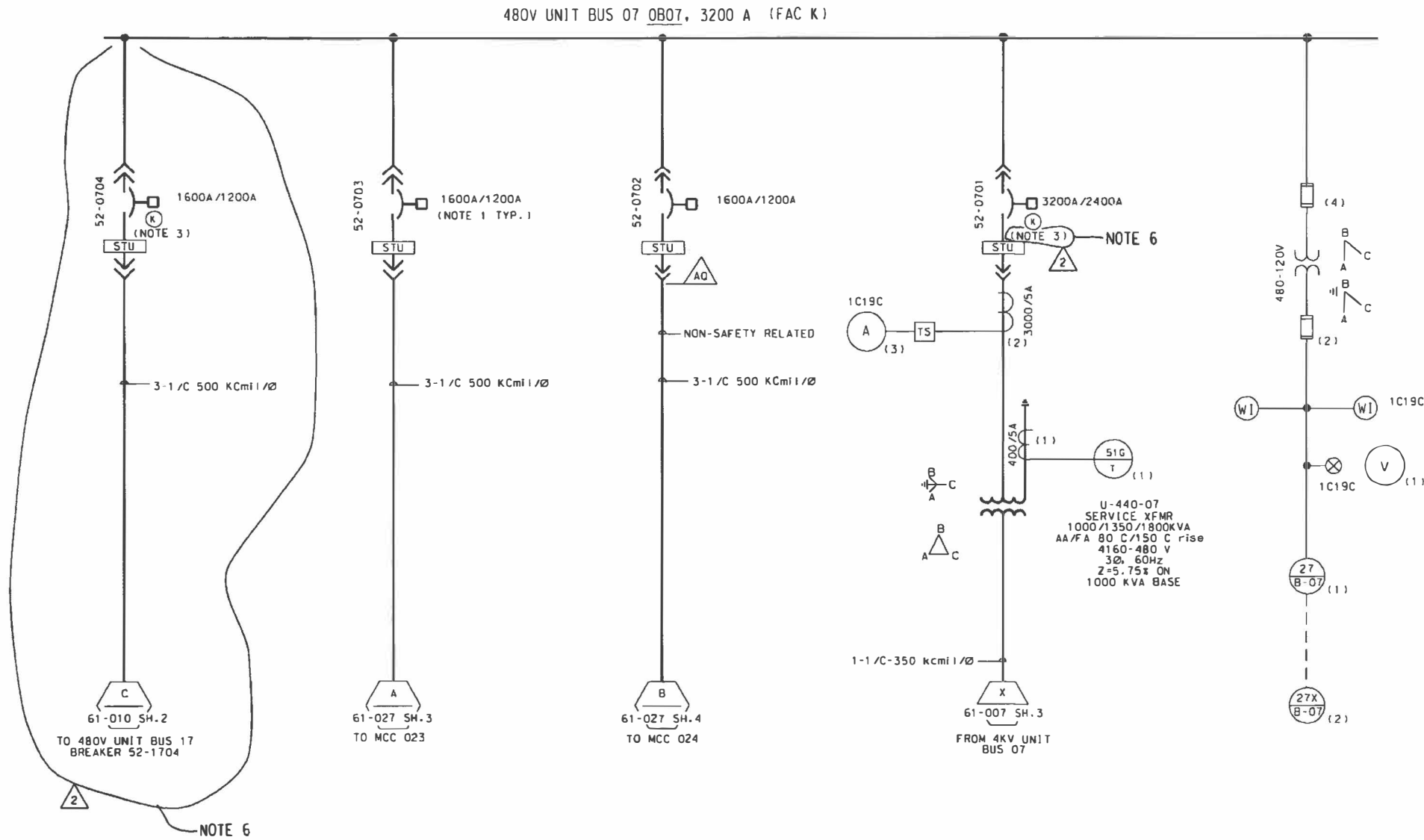
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FIGURE 08-03-01 SINGLE LINE METER & RELAY DIAGRAM 480V UNIT BUSES 11A, 11B, 14A, & 14B FSAR FIG NO. 8-3





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DEVICE	DESCRIPTION	REF	TYPE	MODEL	FUNCTION
27AB-D1	BUS UNDERVOLTAGE RELAY	Y	CV 2	1875508	OPERATE 27AB-D1
51G/T	TRIP GROUND OVER CURRENT RELAY	4	CU 6	254C888A05	TRIP BUS 52-0701
52	STATIC TRIP UNIT	W	AMP/SEC	6998002004	TRIP BUS
27A-B-D1	AUXILIARY RELAY	CL	HA 100	12HFA151A7H	ALARM

NOTE 6

1. EACH BREAKER IS EQUIPPED WITH SOLID STATE OVERCURRENT TRIP UNIT (STU) WITH 1200 AND 5000 TIME DELAY WITH INTEGRAL GROUND FAULT PROTECTION CHANNEL FEEDBACKS. SHOCK-PROOF RATED AND SHOWN AS: 1. HANG, 2. 1/2 IN. 3. 1/4 IN. 4. 1/8 IN.

2. NUMBERS IN PARENTHESES 1 & 2 DENOTE THE QUANTITY OF DEVICES REQUIRED.

3. MECHANICAL TRIP TEST INTERLOCKS ARE INDICATED WHEN TRIP IS EITHER NORMAL (TYPED) OR BY 52-0701 MUST BE OBTAINED BEFORE MAINTENANCE CROSS TIE BREAKERS 52-0704 AND 52-1704 CAN BE CLOSED.

4. ALL EQUIPMENT ON THIS DRAWING IS DOCUMENTED QUALITY UNLESS NOTED OTHERWISE.

5. ALARM INPUTS ARE NON-SAFETY RELATED.

6. THE POSITION OF THE DRAWING IS IDENTIFIED BY THE BUBBLE IS ON WORK. THE BUBBLE WILL BE REMOVED AND THIS POSITION OF THE DRAWING WILL BE RELEASED FOR IMPROVED TO THE PLANT AT THE 1996 UNIT 1 SURVEY BY A DCN IN THE APPROPRIATE FOR SUPPLEMENT.

LEGEND:

- ⊗ VOLT METER SWITCH
- ⊕ TEST SWITCH
- ⊙ INDICATING LIGHT
- ⊙ ALARM KEY INTERLOCK
- ⊙ AUGMENTED QUALITY/NON-SAFETY RELATED BOUNDARY

REFERENCE (REVISIONS):

- 61-006-4 ENGINEERING DESIGN STANDARDS
- 61-007-1 SH.3 METER & RELAY DIAGRAM, SYSTEM UNIT BUS 07
- 61-027-1 SH.3 SINGLE LINE DIAGRAM, TO 480V MCC 023
- 61-027-1 SH.4 SINGLE LINE DIAGRAM, TO 480V MCC 024
- 61-010-1 SH.2 METER AND RELAY DIAGRAM, 480V SYSTEM UNIT BUS 17
- 21464-BG/0002-022 VENDOR DIAGRAMS, 480V SYSTEM UNIT BUS 07
- 21464-BG/0002-023

CALVERT CLIFFS NUCLEAR POWER PLANT

UFSAR FIGURE 8-3SH0003

DIESEL GENERATOR PROJECT

METER AND RELAY DIAGRAM
480V SYSTEM UNIT BUS 07

BGE DRAWING 61010SH0003, REV.3

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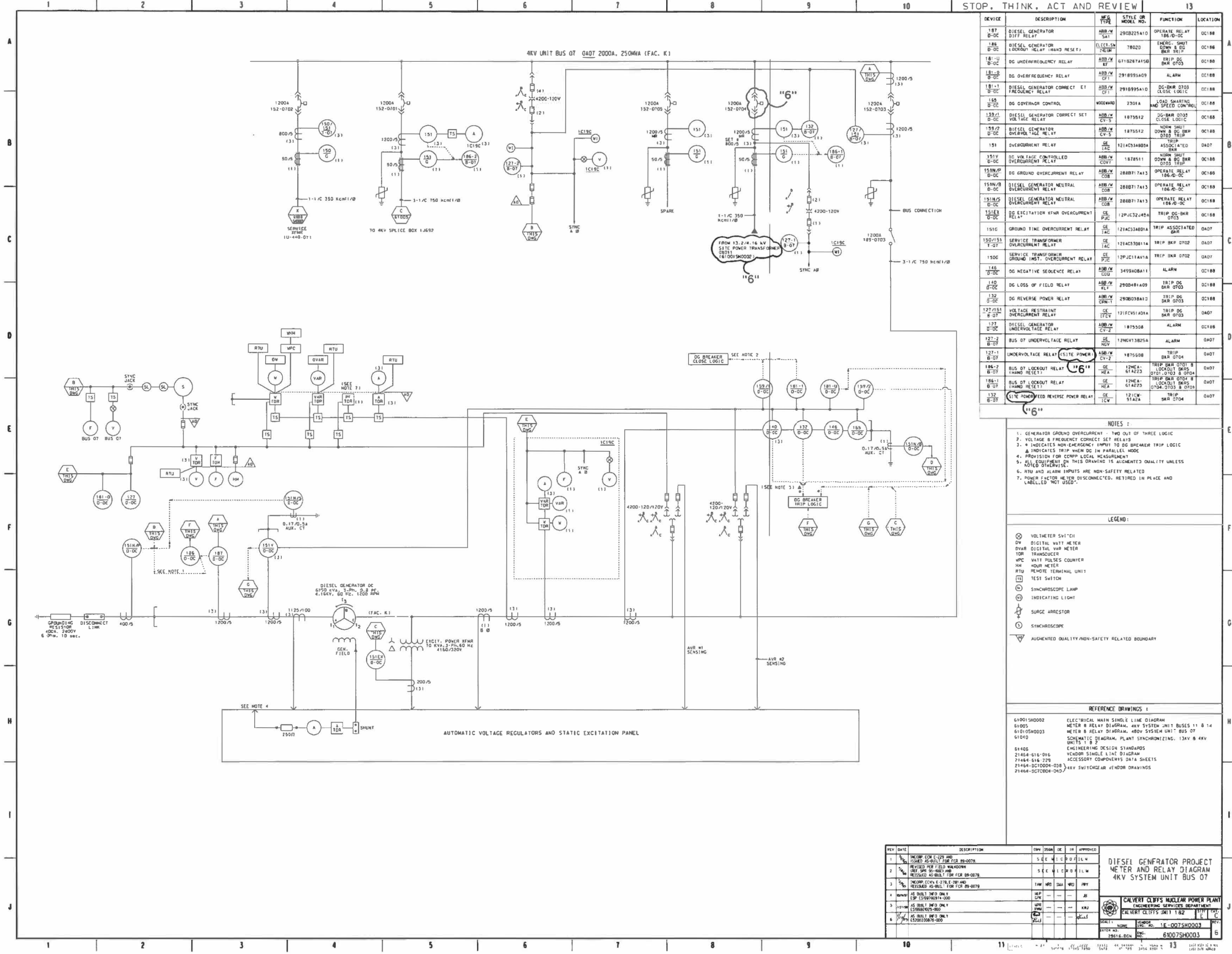
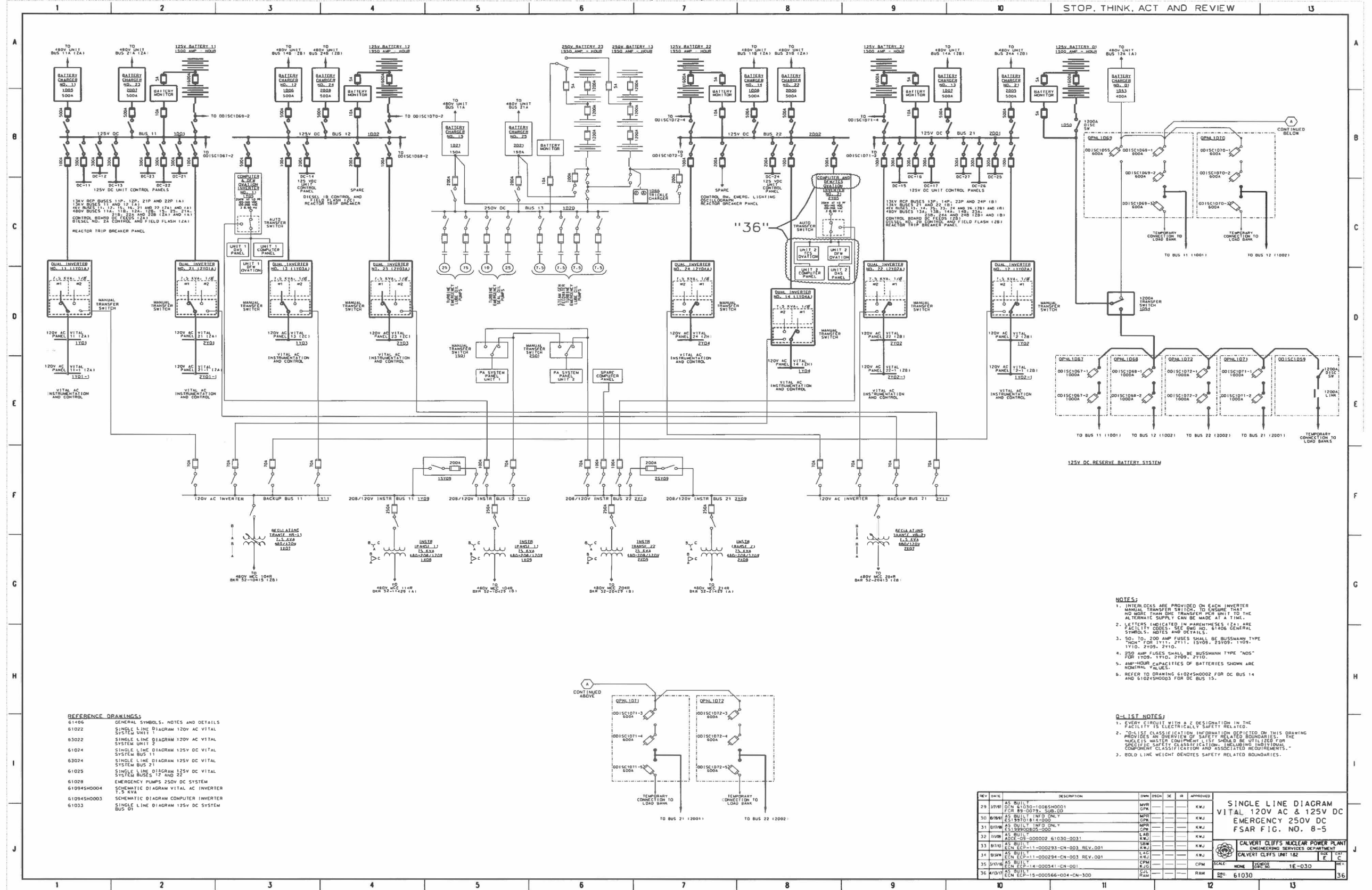


FIGURE 8-5 SINGLE LINE DIAGRAM VITAL 120 V AC AND 125 V DC, EMERGENCY 250 V DC (Sheet 1)





- [illegible]

LEGEND :

-  AMMETER
-  VOLTMETER
-  NON AUTOMATIC WOUNDED CASE SWITCH
-  SAFETY PRELIMINARY SAFETY WARNING BOUNDARY
-  WHITE INDICATING LIGHT AND TYPE
-  DENOTES A SPACE

PLATE 10

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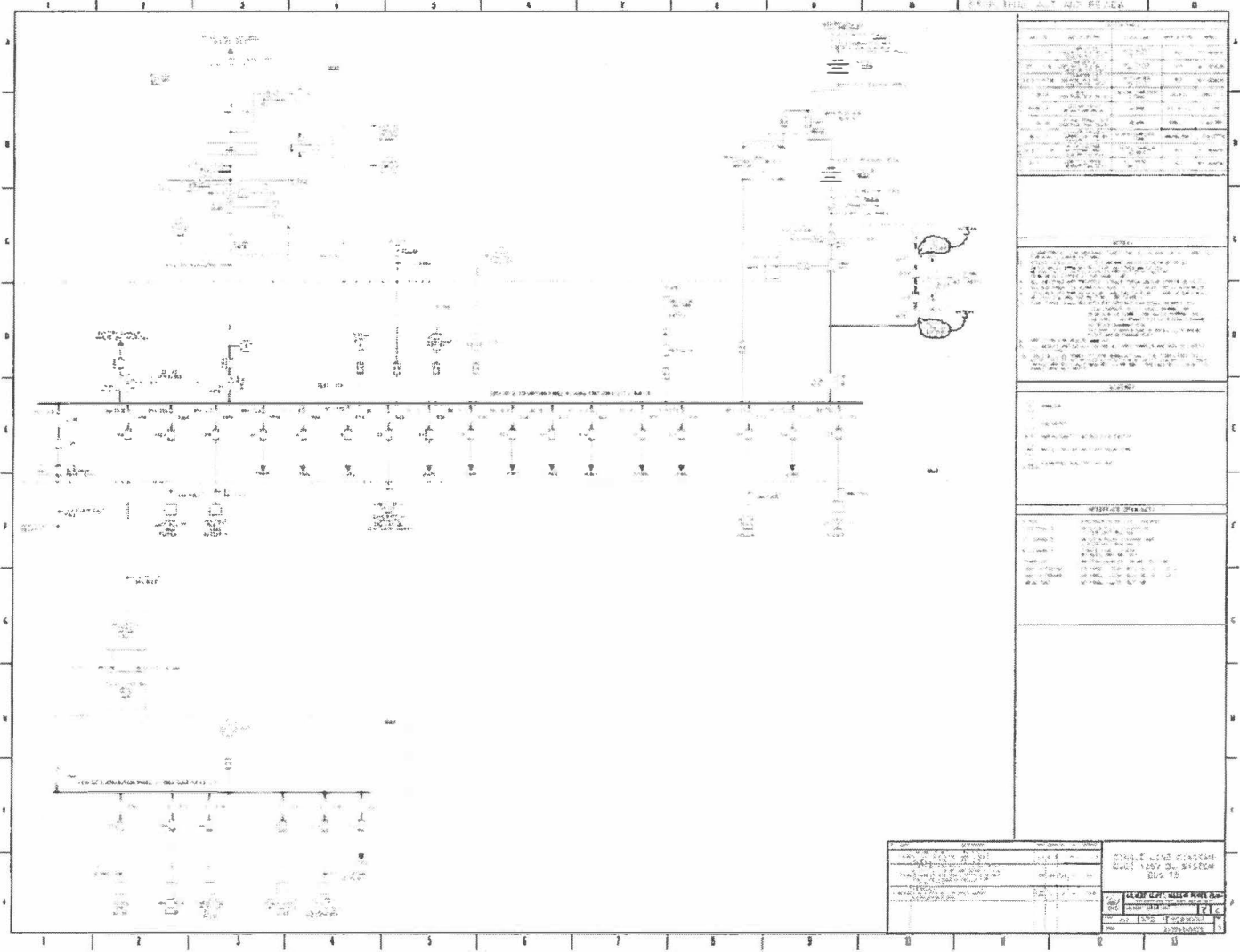
CALVERT CLIFFS NUCLEAR POWER PLANT

UFSAR FIGURE 8-5SH0002

DIESEL GENERATOR PROJECT
SINGLE LINE DIAGRAM
DG1A 125V DC SYSTEM
BUS 14

BGE DRAWING 61024SH0002, REV.3

FIGURE 8-5 DIESEL GENERATOR PROJECT SINGLE LINE DIAGRAM DG0C 124V DC SYSTEM BUS 15 (Sheet 3)



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FIGURE 8-7 PLANT PROTECTION BLOCK DIAGRAM (SHEET 1)
DELETED DWG#61029SH001

FIGURE 8-7 PLANT PROTECTION BLOCK DIAGRAM UNIT NO. 1 (Sheet 2)

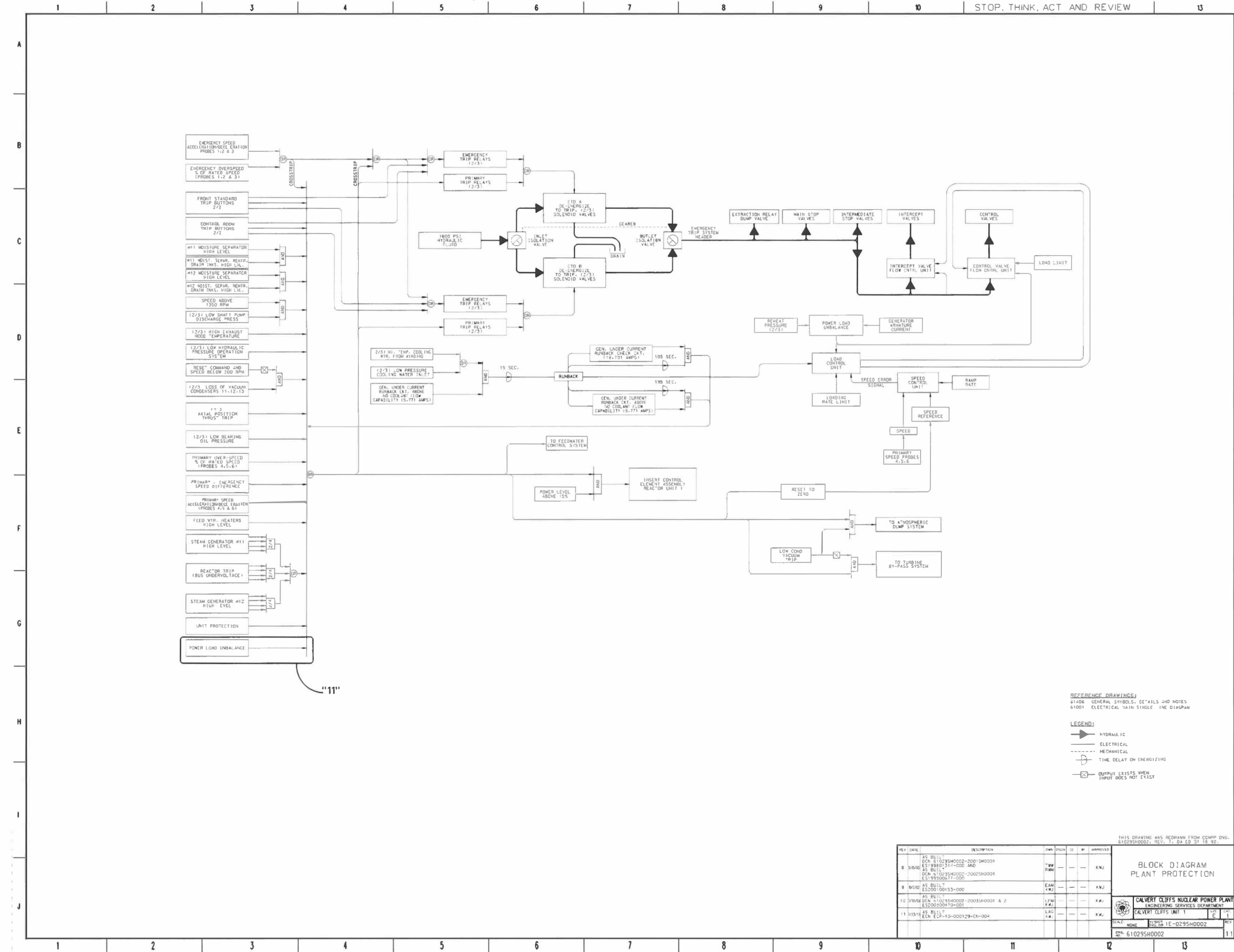
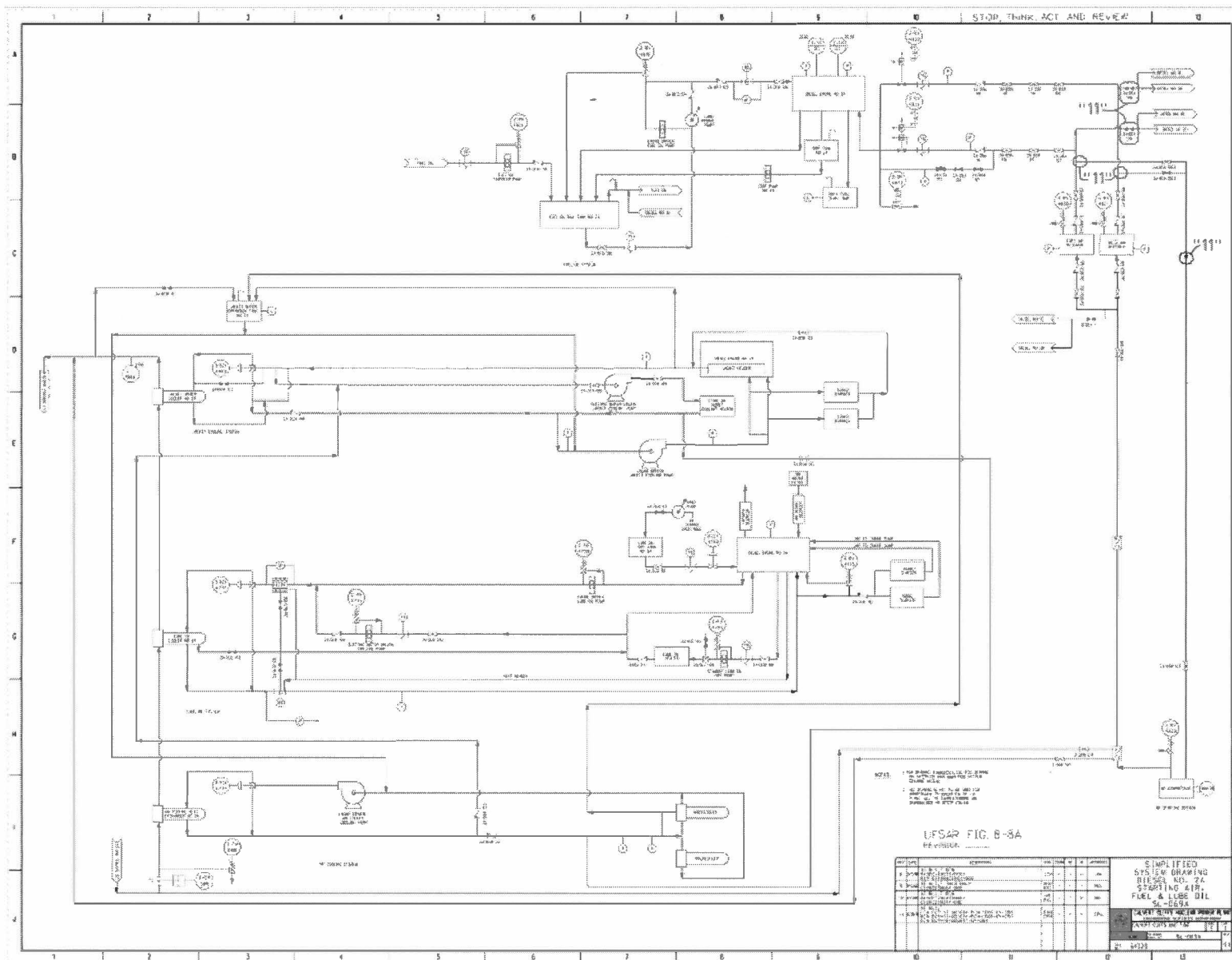


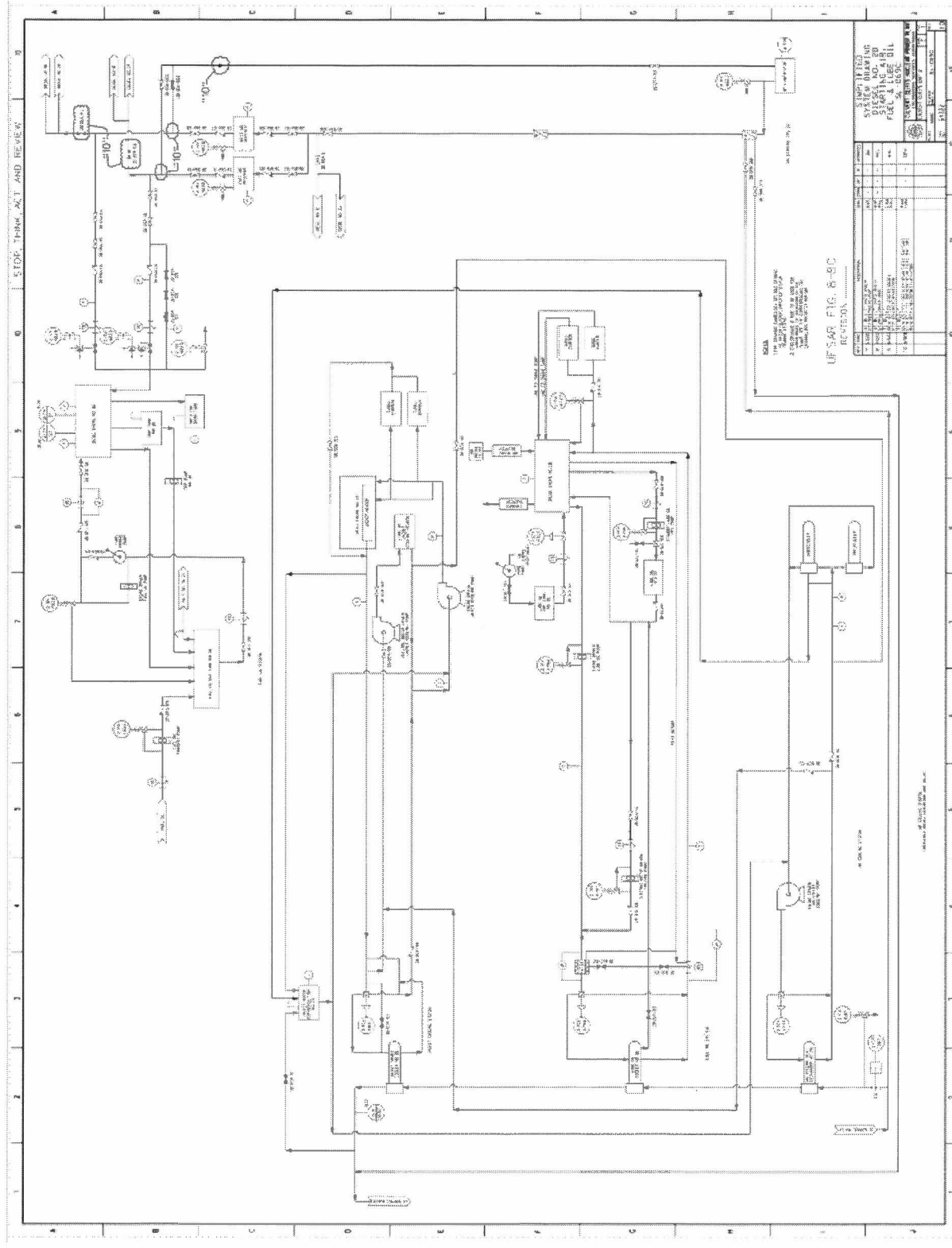
FIGURE 8-8A SIMPLIFIED SYSTEM DRAWING DIESEL NO. 2A STARTING AIR, FUEL & LUBE OIL SL-069A



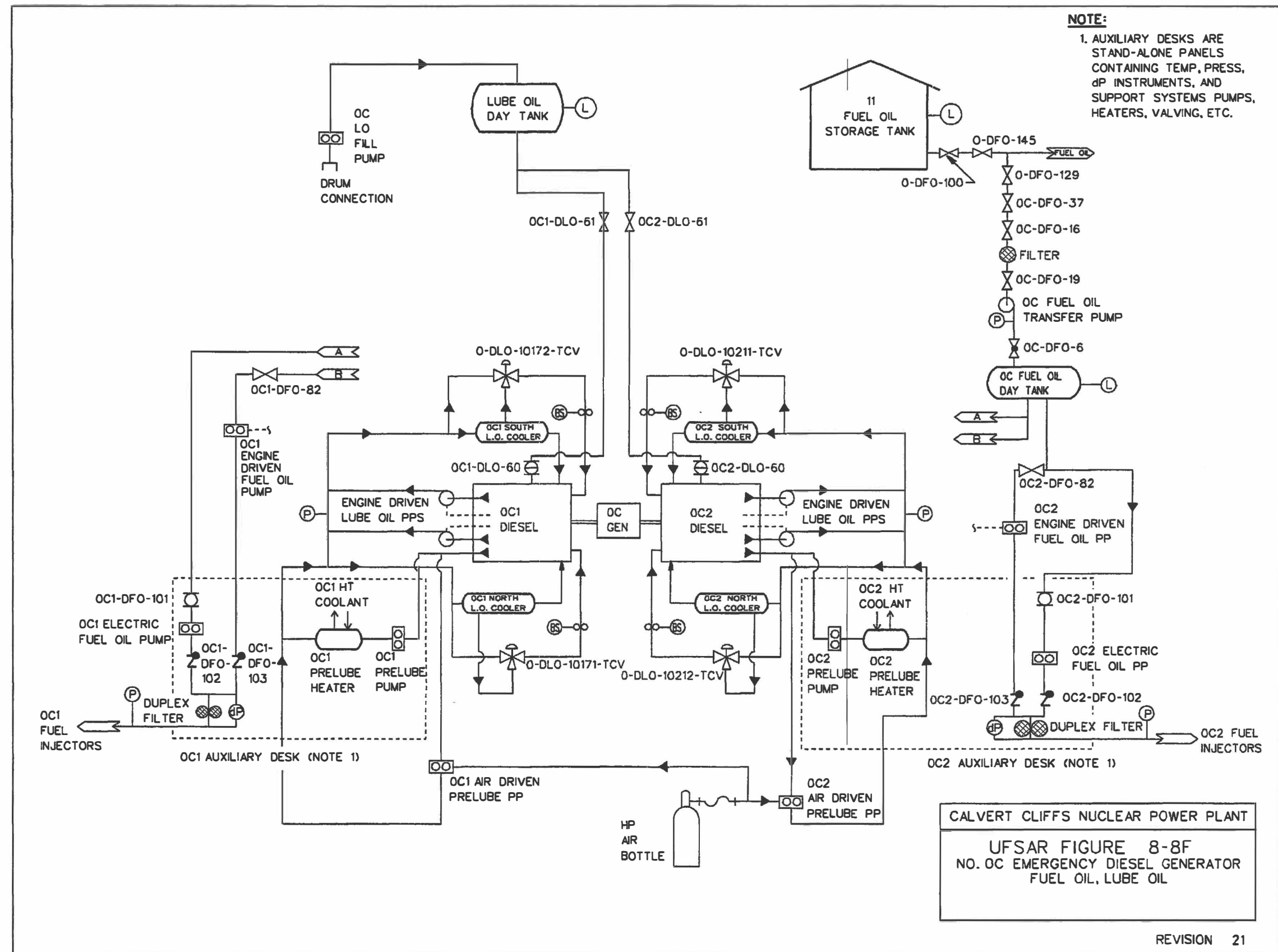
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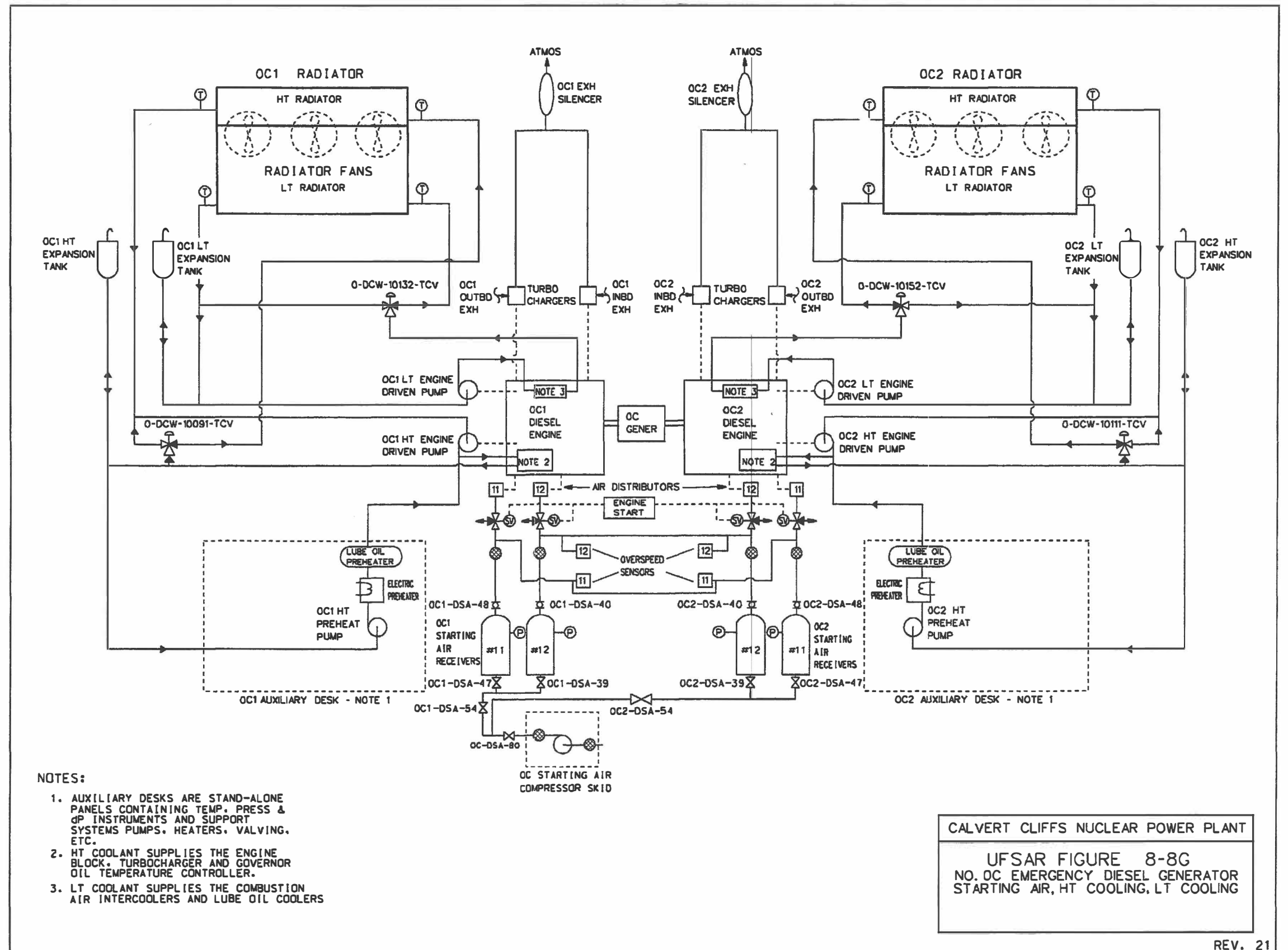
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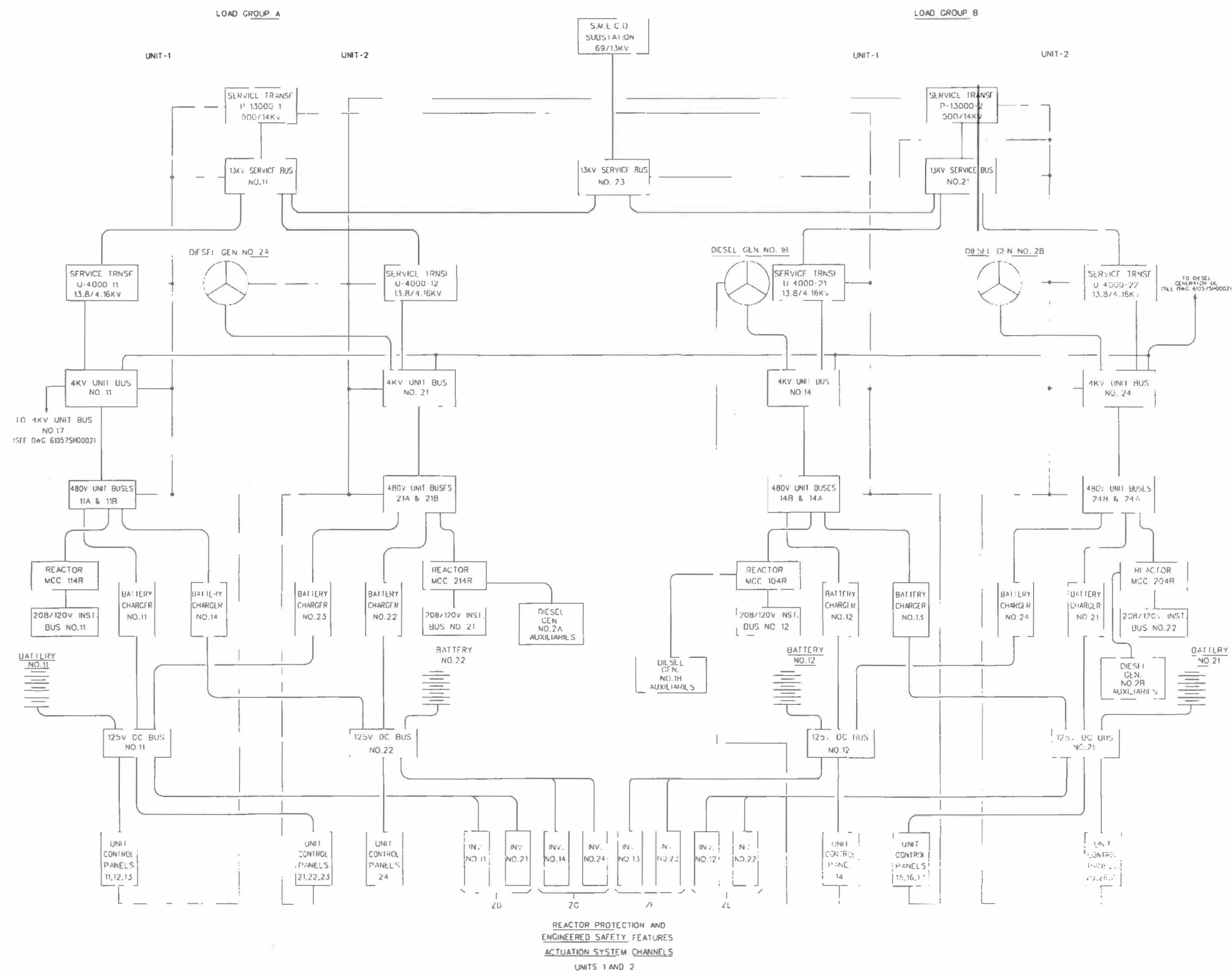
FIGURE 8-8C SIMPLIFIED SYSTEM DRAWING DIESEL NO. 2B STARTING AIR, FUEL & LUBE OIL SL-069C











NOTE:
DARK LINES ARE POWER FEEDERS
LIGHT LINES ARE DC CONTROL FEEDERS

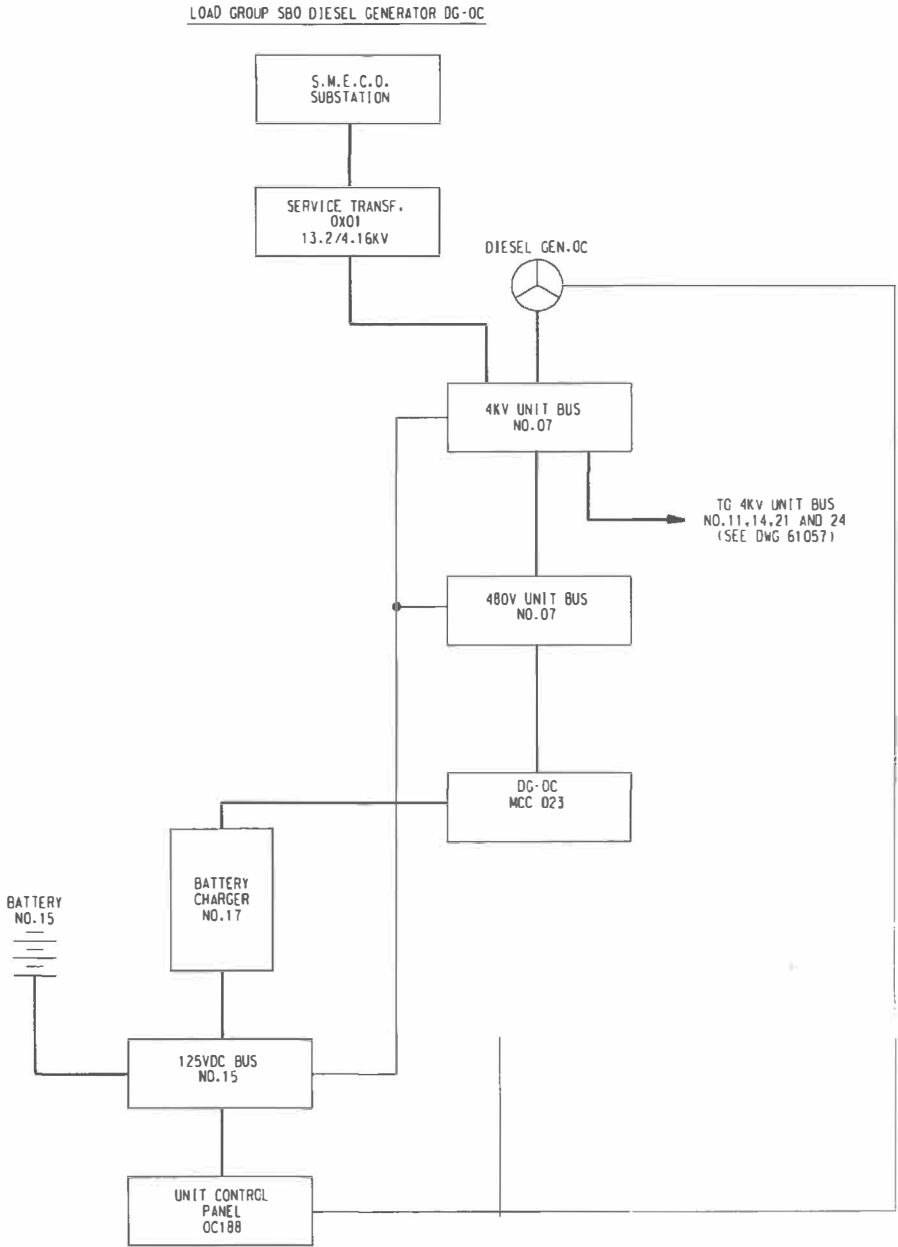
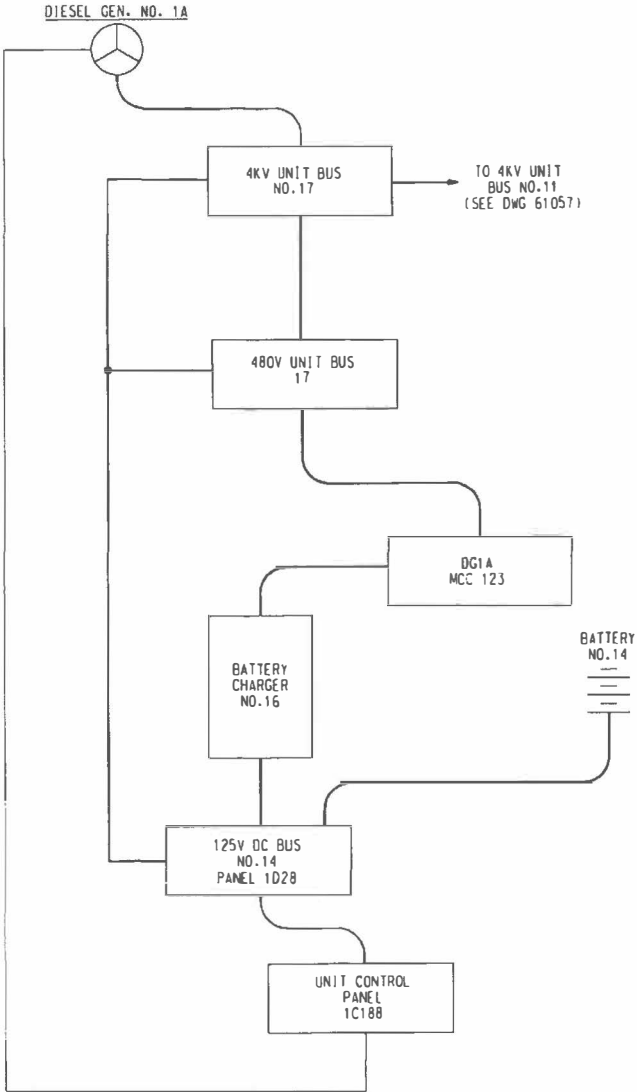
CALVERT CLIFFS NUCLEAR POWER PLANT

UFSAR FIGURE 8-9SH0001

BLOCK DIAGRAM
AUXILIARY SYSTEM
LOAD GROUPS
UNITS 1 & 2

BGE DRAWING 61057, REV.9

REVISION **26**



NOTES :

1. DARK LINES ARE POWER FEEDERS. LIGHT LINES ARE DC CONTROL FEEDERS.

2. DUE TO THE

3. BATTERY

REFERENCE DRAWINGS :

SYSTEM BLOCK DIAGRAM AUXILIARY SYSTEM LOAD GROUPS, UNITS 1&2

CALVERT CLIFFS NUCLEAR POWER PLANT

UFSAR FIGURE 8-9SH0002

BLOCK DIAGRAM
AUXILIARY SYSTEM
LOAD GROUPS
DG-0C SBO & DC1A
DIESEL GENERATORS

BGE DRAWING 61057SH0002, REV.5

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FIGURE 08-11 SINGLE LINE METER & RELAY DIAGRAM 480V UNIT BUSES 21A, 21B, 24A & 24B FSAR RIG NO. 8-11

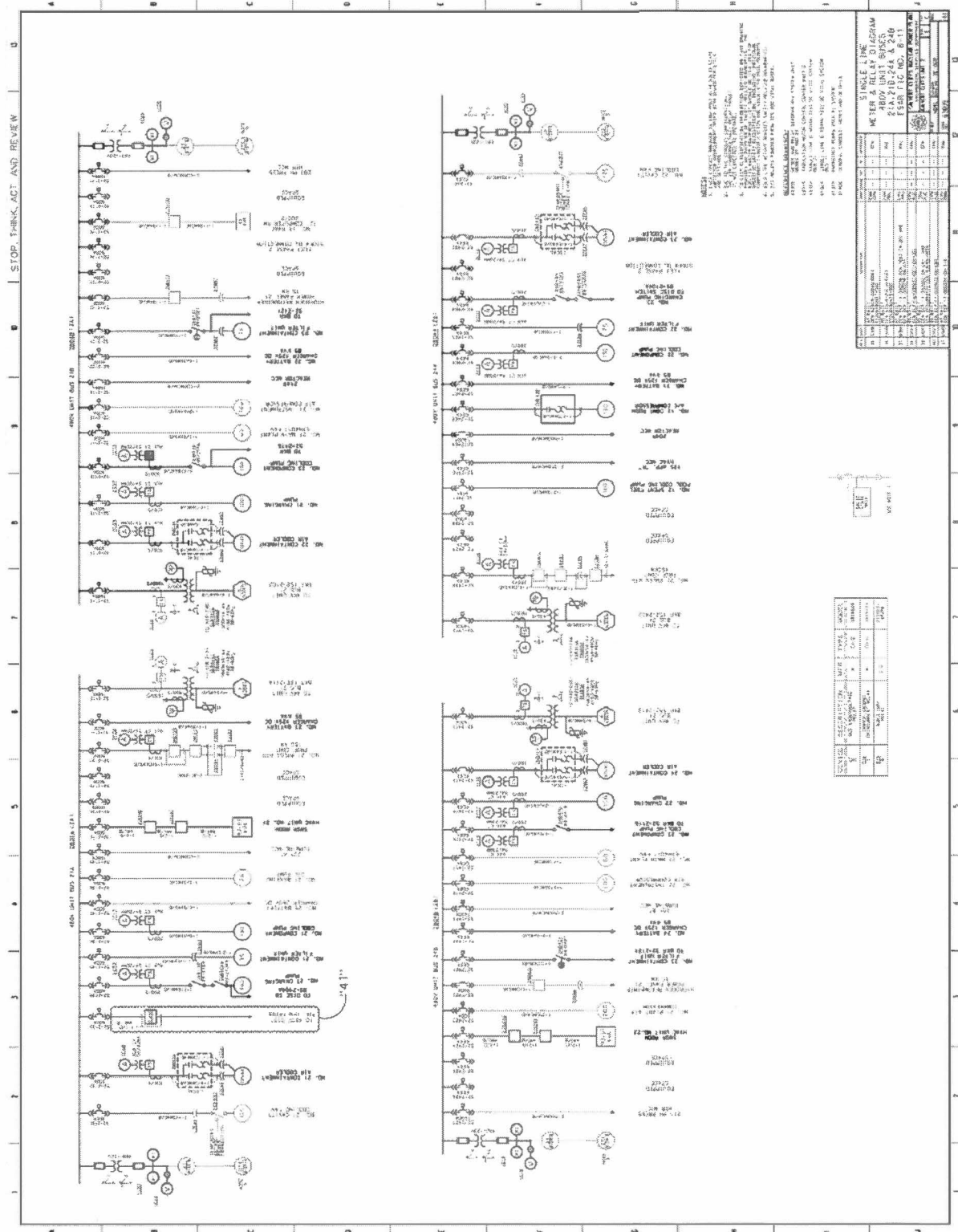


FIGURE 8-12 PLANT PROTECTION BLOCK DIAGRAM (SHEET 1)

DELETED DWG #63029SH001

FIGURE 8-12 PLANT PROTECTION BLOCK DIAGRAM (SHEET 2)

DELETED DWG #63029SH002