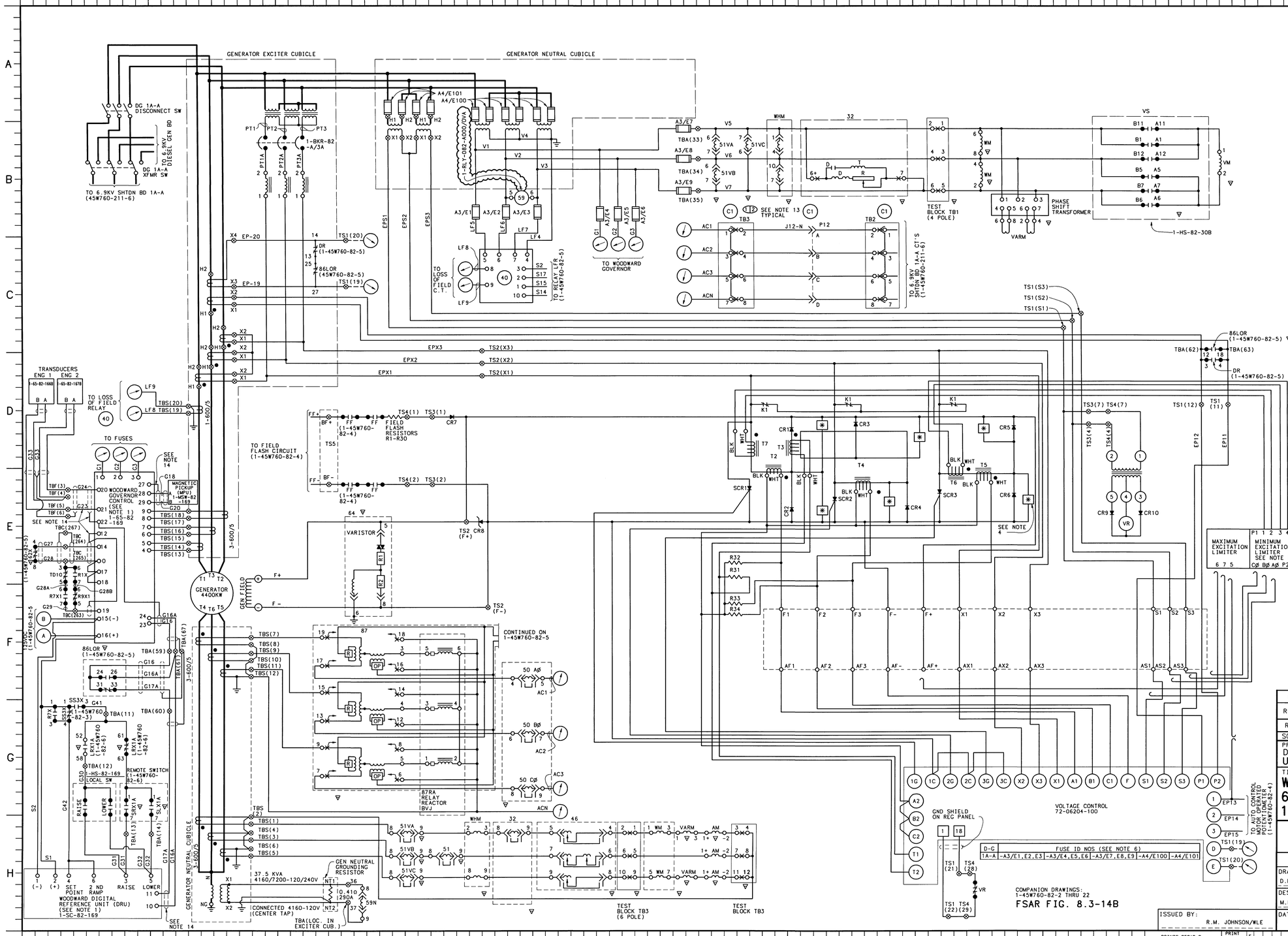
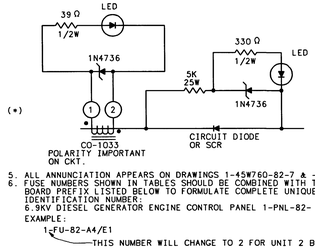


NOTES:

1. FOR ADDITIONAL INFORMATION SEE MANUFACTURER'S DRAWINGS. TVA CONTRACT NUMBERS 74C63-83090 AND P92NJB-45165B.
2. DIESEL GENERATORS 1A-A & 2A-A AND ASSOCIATED EQUIPMENT ARE TRAIN A. DIESEL GENERATORS 1B-B & 2B-B AND ASSOCIATED EQUIPMENT ARE TRAIN B. ALL EQUIPMENT IS SAFETY RELATED.
3. ALL THE EQUIPMENT IS LOCATED ON THE ENGINE CONTROL PANEL UNLESS OTHERWISE NOTED.
4. THE TYPICAL ANNUNCIATOR CIRCUIT FOR LED'S IS AS SHOWN BELOW:



5. ALL ANNUNCIATION APPEARS ON DRAWINGS 1-45W760-82-7 & -8.
6. FUSE NUMBERS SHOWN IN TABLES SHOULD BE COMBINED WITH THE APPLICABLE BOARD PREFIX LISTED BELOW TO FORMULATE COMPLETE UNIQUE FUSE IDENTIFICATION NUMBER:
   6.9KV DIESEL GENERATOR ENGINE CONTROL PANEL 1-PNL-82-
   EXAMPLE:
   1FU-82-A4/E1 — THIS NUMBER WILL CHANGE TO 2 FOR UNIT 2 BOARDS.
7.
8. THE FUSE INFORMATION FOR CLASS IE FUSES OR FUSES USED TO PROTECT ELECTRICAL PENETRATIONS SHOWN IN THIS DRAWING SERIES, OR AS GIVEN FOR THESE CIRCUITS IN VENDOR CONTRACT DRAWINGS REFERENCED IN THIS DRAWING SERIES, IS FOR INFORMATION ONLY. REFER TO THE MASTER FUSE REPORT, DRAWING SERIES 45B60DD, FOR CONFIGURATION CONTROLLED FUSE INFORMATION. OTHERWISE, FOR THOSE FUSES NOT LISTED IN THE MASTER FUSE REPORT, THESE DRAWINGS WILL REMAIN THE CONTROLLING DOCUMENT.
9. THE TERMINAL NUMBERS SHOWN FOR MCC-INTERNAL COMPONENTS ARE THE MCC-TERMINAL BLOCK/INTERNAL WIRE NUMBERS RATHER THAN THE ACTUAL DEVICE TERMINAL NUMBERS.
10. FOR GENERAL NOTES, INCLUDING TECHNICAL INFORMATION ABOUT CIRCUIT DESIGN, SEE DRAWING 1-45W760-0-1.
11. DRAWING AS SHOWN IS FOR DIESEL GENERATOR UNIT 1A-A.
    SEE THE FOLLOWING FOR THE OTHER UNITS:

DIESEL GENERATOR	DRAWING
1B-B	1-45W760-82-1A
2A-A	1-45W760-82-1B
2B-B	1-45W760-82-1C
OC-S	1-45W760-82-11

12. MIN-MAX EXCITATION LIMITER DISCONNECTED & ABANDONED IN PLACE.
13. DISCONNECT PLUGS P1 THRU P13 (1-CDPL-82-A) AND P1 THRU P3 (1-APPL-82-A) ARE UNIT 1 / UNIT 2 INTERFACE POINTS FOR DG 1A-A & DG C-S.
14. WIRING SHALL BE NO. 16 AWG MULTICONDUCTOR, INSULATED, SHIELDED MARK #WVA-SO, OR THE USE OF EXISTING SHIELDED NO. 16 AWG PANEL WIRING.
15. NEW INTERNAL PANEL WIRING SHALL BE #14 AWG MARK #WJG-6 UNLESS OTHERWISE INDICATED.

SYMBOLS:
(SEE NOTE 3)

- ---DIESEL GENERATOR ENGINES
- ---DIESEL GENERATOR PROTECTIVE RELAYS PANEL
- ---DIESEL GENERATOR BATTERY DISTRIBUTION PANEL
- ---DIESEL GENERATOR ENGINE CONTROL PANEL
- (C1)---LOCATED ON CONTROL DISTRIBUTION PANEL, DG BLDG
- (1 2)---DENOTES UNIT 1 / UNIT 2 INTERFACE POINT (SAFETY RELATED)

REFERENCE DRAWINGS:
SINGLE LINES:
6900V DIESEL GEN. SINGLE LINES----------45W727
CONNECTION DIAGRAMS:
DIESEL GEN MISC. CONN. DIAGRAMS---------- 45W1780-SERIES

THIS CONFIGURATION CONTROL DRAWING SUPERSEDES UNIT 1 AS-CONSTRUCTED DRAWING 45W760-82-1 REVISION P.

REV	CHANGE REF	PREPARER	CHECKER	APPROVED	DATE
17	52642	ESJ	JEW	JHR	7-7-08

REVISED PER DCA 52642-01-0.

SCALE: NTS — EXCEPT AS NOTED

PROJECT FACILITY
DIESEL GENERATOR BLDG
UNIT 1

TITLE
WIRING DIAGRAM 6900V STANDBY DIESEL GENERATORS 1A-A SCHEMATIC DIAGRAMS

1 — WATTS BAR NUCLEAR PLANT, TENNESSEE VALLEY AUTHORITY — Q

DESIGN		INITIAL ISSUE	ENGINEERING APPROVAL
DRAFTER D.H. WANG	CHECKER J.G. LOWE	RO ISSUE PER WBEP 5.17 & RIMS B26 '90 0727 377	1 VICTOR PACHECO
DESIGNER M.L. CHAPMAN	REVIEWER D.F. FAULKNER		2 R.T. GRAHAM
			3 C.C. LYKE/MCB

DATE 9-17-90 | 85 | E | 1-45W760-82-1 | R17

CAD MAINTAINED DRAWING

CONFIGURATION CONTROL DRAWING