



LEGEND

* PPC POINT

NOTES

1. ALL CIRCUITS ON THIS SHEET ARE NOT REDUNDANT.
2. ALARM 1 AND ALARM 3 MUST HAVE REFLASH CAPABILITY.
3. K_{0T} MAY VARY INVERSELY PROPORTIONAL TO LOAD WITH A FIXED LIMIT OR MAY VARY IN TWO DISCRETE STEPS WITH BREAK POINTS AT 30-50 AND 60 TO 80% TURBINE LOAD.
4. THE SUMMER OUTPUTS HAVE FIXED MANUALLY ADJUSTABLE UPPER LIMITS.
5. SHEET NUMBERS REFER TO THE REFERENCE NUMBERS BELOW.
6. WHENEVER A PROCESS SIGNAL IS USED FOR CONTROL AND DERIVED FROM A PROTECTION CHANNEL, ISOLATION MUST BE PROVIDED.
7. THIS ILLUSTRATES THE FUNCTIONAL REQUIREMENTS OF THE REACTOR CONTROL AND PROTECTION SYSTEM. THIS DRAWING DOES NOT REPRESENT ACTUAL HARDWARE IMPLEMENTATION. FOR HARDWARE IMPLEMENTATION, REFER TO APPLICABLE SCHEMATIC.
8. THIS MEDIAN SIGNAL SELECT AND T-REFERENCE IS DERIVED FROM SOFTWARE FUNCTION BLOCKS IN PCS SET IV. MEDIAN SIGNAL SELECT AND T-REFERENCE FOR STEAM DUMP CONTROL (REF. 10) IS DERIVED FROM SOFTWARE FUNCTION BLOCKS IN PCS SET I. THIS PROVIDES A FAULT TOLERANT SYSTEM FOR SINGLE INPUT FAILURES.

REFERENCES (NOTE 5)

WE DWG	PG&E DWG
1. FUNCTIONAL LOGIC DIAGRAM INDEX AND SYMBOLS	5653074-1 495871
2. FUNCTIONAL LOGIC DIAGRAM REACTOR TRIP SIGNALS	5653074-2 495872
3. FUNCTIONAL LOGIC DIAGRAM NUCLEAR INSTR AND MANUAL TRIP SIGNALS	5653074-3 495873
4. FUNCTIONAL LOGIC DIAGRAM NUCLEAR INSTR PERMISSIVES AND BLOCKS	5653074-4 495874
5. FUNCTIONAL LOGIC DIAGRAM PRIMARY COOLANT SYSTEM TRIP SIGNALS	5653074-5 495875
6. FUNCTIONAL LOGIC DIAGRAM PRESSURIZER TRIP SIGNALS	5653074-6 495876
7. FUNCTIONAL LOGIC DIAGRAM STEAM GENERATOR TRIP SIGNALS	5653074-7 495877
8. FUNCTIONAL LOGIC DIAGRAM SAFEGUARDS ACTUATION SIGNALS	5653074-8 495878
9. FUNCTIONAL LOGIC DIAGRAM ROD CONTROLS AND ROD BLOCKS	5653074-9 495879
10. FUNCTIONAL LOGIC DIAGRAM STEAM DUMP CONTROL	5653074-10 495880
11. FUNCTIONAL LOGIC DIAGRAM PRESSURIZER PRESSURE AND LEVEL CONTROL	5653074-11 495881
12. FUNCTIONAL LOGIC DIAGRAM PRESSURIZER HEATER CONTROL	5653074-12 495882
13. FUNCTIONAL LOGIC DIAGRAM FEEDWATER CONTROL AND ISOLATION	5653074-13 495883
14. FUNCTIONAL LOGIC DIAGRAM FEEDWATER CONTROL AND ISOLATION	5653074-14 495884
15. FUNCTIONAL LOGIC DIAGRAM AUXILIARY FEEDWATER PUMPS STARTUP	5653074-15 495885
16. FUNCTIONAL LOGIC DIAGRAM TURBINE TRIPS, RUNBACKS & SIGNALS	5653074-16 495886
17. FUNCTIONAL LOGIC DIAGRAM AMSAC SIGNALS	5653074-17 495887
18. FUNCTIONAL LOGIC DIAGRAM SEISMIC TRIP	8759077 495888
19. FUNCTIONAL LOGIC DIAGRAM DIGITAL FW CONT SYS INPUT SIGNAL VALIDATION	5653074-18 495889
20. FUNCTIONAL LOGIC DIAGRAM DIGITAL FW CONT SYS FW FLOW CONTROLLER & C ₀ DEMAND	5653074-19 495890
21. FUNCTIONAL LOGIC DIAGRAM DIGITAL FW CONT SYS CONT VCV SEQ & TRACKING LOGIC	5653074-20 495891
22. FUNCTIONAL LOGIC DIAGRAM DIGITAL FW CONT SYS SIGNAL SELECTOR LOGIC	5653074-21 495892
23. DRAWING INDEX SOLID STATE PROTECTION SYS INTERCONNECTION & SCHEM. DIAGRAM	1080442-1 458862

NUCLEAR SAFETY RELATED

KEY DWG. SECTION 3

UNIT 2

DATE 08-14-2013	REVISION DESCRIPTION REVISED PER DFT-74241	DWG SCALE: BILL OF MATL: SUPDS: SUPSD BY:
D. D. LCB1		
R. E. FAZI		
L. V. KJD3		
P. E. N/A		
DIABLO CANYON POWER PLANT PACIFIC GAS AND ELECTRIC COMPANY SAN FRANCISCO, CALIFORNIA		DRAWING BY: SHEET 1 PAGE 0 REV 7

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 CAD User: LCB1 Date: 08-14-2013

DRAWING NUMBER
 495879