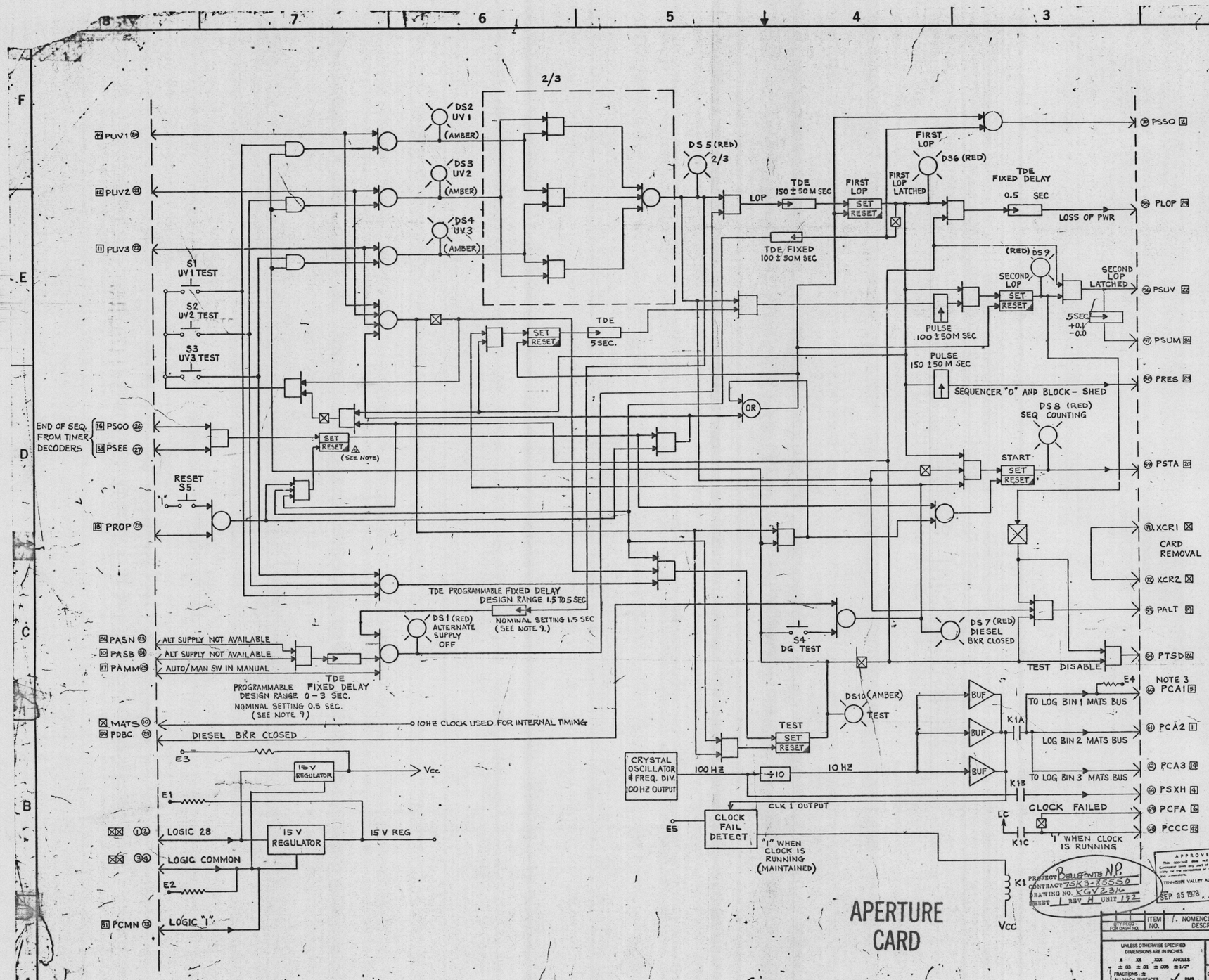
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	B	C/N S28. REVISED & REDRAWN.	1-19-77	
	C	C/N S156 - REV'D. & UP-DATED.	8-23-77	
	D	C/N S272. / REVISED & UP-DATED	9-6-77	K.R.T.
8C	E	C/N S515 - PASN WAS PALT. NOTE 10 WAS, "... FIT IN SLOTS 8, 17, 33, 42, 58 OR 67 DUE TO..." NOTE 10 DEL'D "... WITH CARD RACK SUPPORTS." ADDED 1, 2 & 4 TO "E" POINTS. DS2 (AMBER) WAS DS6 (YELLOW); DS3 (AMBER) WAS DS4 (YELLOW); DS4 (AMBER) WAS DS7 (YELLOW); DS5 WAS DS4; DS6 WAS DS3; DS7 WAS DS8; DS8 WAS DS10; DS9 WAS DS2; DS10 (AMBER) WAS DS10 (YELLOW).	2-9-78	
	F	C/N S530 NOTE 4. KGW2316 WAS KGN2136 ADDED B3 TO CLOCK FAIL DETECT ZONE B3, ADDED MATS ZONE 8G/ADDED 10 HZ CLOCK ... ZONE C6/ADDED B3 & 15V REGULATOR ZONE B7	2/14/78	KRT
7E,F 2&8	G	C/N S695 - ADDED NOTE 11. ADDED 3 "AND" GATES. ADDED PRGM PNL TB PTS., P.C. CONN. PINS & SIGNALS NOT AVAILABLE ON PRGM PNL. ADDED NOTE 12.	6-8-78	
8D	H	C/N S855. DARKENED 12 PS00	7-12-78	



NOTES:

1. IF SEQUENCER IS IN AN LOP SEQUENCE OR HAS COMPLETED ONE, AND ANOTHER LOP OCCURS, IT WILL COMPLETE IT'S COUNT OR REMAIN IN STANDBY (COUNTED OUT). IT WILL, HOWEVER, RECORD THE SECOND LOP FOR USE BY TVA.
2. IF A TEST IS IN PROGRESS WHEN AN LOP OCCURS, THE TEST WILL STOP AND THE SEQUENCER WILL BEHAVE AS SPECIFIED FOR AN LOP. THE TEST WILL NOT AUTOMATICALLY RESTART AFTER LOP.
3. CLOCK SIGNALS PCA1, 2, 3 GO TO PROGRAM BACK PLANE FOR USE BY LEC LAMP FLASH CIRCUITS, TDM TIMERS, OR SPECIAL APPLICATIONS.
4. CRYSTAL CLOCK PROVIDES 100 HZ FOR SEQ. TIMER AND 10 HZ FOR TDM's & LEC's. IF CLOCK FAILS, OR SEQ. CTRL CARD IS REMOVED, ANOTHER CLOCK ON SEQ. T CARD (KGU2316) TURNS ON AND PROVIDES SAME 100 HZ & 10 HZ SIGNALS. CLOCK FREQ. IS ACCURATE TO ±0.005% FROM 0° TO 70°C. CLOCK DRIFT IS ±0.0003% PER YEAR.
5. "E" DESIGNATES TEST POINT ON CARD, ACCESSIBLE WHEN LOGIC CABINET FRONT DOOR IS OPENED, RESISTOR ISOLATED.
6. ALL SET/RESET MEMORIES COME ON IN RESET STATE WHENEVER POWER IS APPLIED. 'RESET' OVERRIDES 'SET.' OUTPUT IS DELAYED WITH RESPECT TO INPUT BY 8.5 M SEC., TYPICALLY. (2.5 M SEC. MIN., 20.5 M SEC. MAX) THE OUTPUT STATE IS NOT LATCHED UNTIL THE OUTPUT IS PRESENT.
7. UNLESS OTHERWISE SPECIFIED, ACCURACY FOR ALL TDE's IS +0.15, -0.05 SEC.
8. PC JUMPERS ARE PROVIDED FOR PROGRAMMING THE TDE CIRCUIT BLOCKS WHERE APPLICABLE. THE DELAYS CAN BE SET WITH INCREMENTS OF 0.5 SEC.
9. CARDS WILL BE SHIPPED WITH PROGRAMMABLE TDE'S AT THE NOMINAL SETTINGS.
10. SEQUENCER CONTROL MODULES WILL NOT FIT IN SLOTS NEXT TO A TDM OR A LMM DUE TO INTERFERENCE OF WIREWRAP PINS.
11. PROGRAM PANEL TB POINTS ARE SHOWN THUS 7. PRINTED CIRCUIT CONNECTOR PINS ARE SHOWN THUS 19. SIGNALS NOT AVAILABLE ON PROGRAM PANEL ARE SHOWN ☒.
12. AFTER POWER ON, AS DESCRIBED IN NOTE 6, "SET" WILL OVERIDE "RESET" ON THIS MEMORY.

APPROVED
This approval does not relieve the Contractor from any part of the responsibility for the correctness of design, details and performance.
TENNESSEE VALLEY AUTHORITY
SEP 25 1978
W. CHANDLER

BELLEFONTE NP
PROJECT
CONTRACT 75K3-85550
DRAWING NO. KGV2316
SHEET 1 REV H UNIT 1&2

ITEM NO.	NOMENCLATURE OR DESCRIPTION	DWG SIZE	PART OR IDENTIFYING NO.	SPECIFICATION	MATERIAL OR NOTE	REMARKS

LIST OF MATERIAL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
X .XX .XXX ANGLES
± .03 ± .01 ± .005 ± 1/2°
FRACTIONS ±
ALL MACH SURFACES ✓ RMS
DRILL HOLES PER ANSI B187
BURRS AND SHARP EDGES PER JB.315
45° CHAMFER FIRST THREAD
TOLERANCES PER ANSI Y14.5-1973
COML TOL APPLY TO STOCK SIZES

MATERIAL: ~
FINISH: ~

NEXT ASSY	USED ON
9N28	9N28

APPLICATION

CONSOLIDATED CONTROLS CORPORATION
BETHEL, CONN. EL SEGUNDO, CALIF.

DRAWN SCL 4-21-76 RS 11817
CHECKED K. TARRANT 4-30-76
ENGR. J. PAVLICK 4-30-76
RELEASED 1-19-77

BELLEFONTE NUCLEAR PLANTS, UNITS 1 & 2
CONTRACT NO. 75K3-85550
TENNESSEE VALLEY AUTHORITY

LOGIC DIAGRAM SEQUENCER CONTROL

SIZE	FSCM NO.	DWG NO.
F	02750	KGV2316

SCALE ~ WT. ~ SHEET 1 OF 1

Docket #50-438
Control #8202080064
Date 820202 of Document
REGULATORY DOCKET FILE