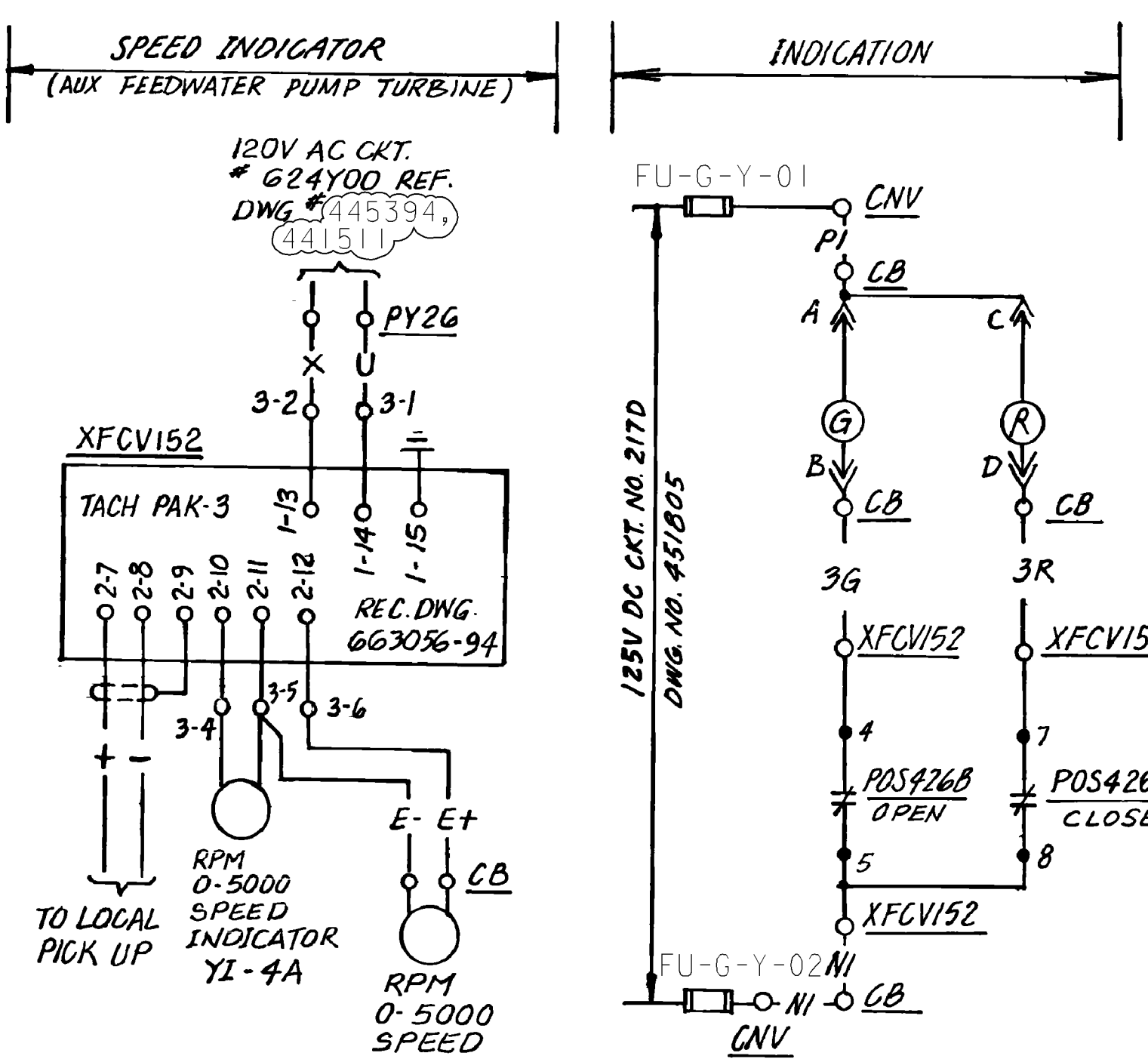
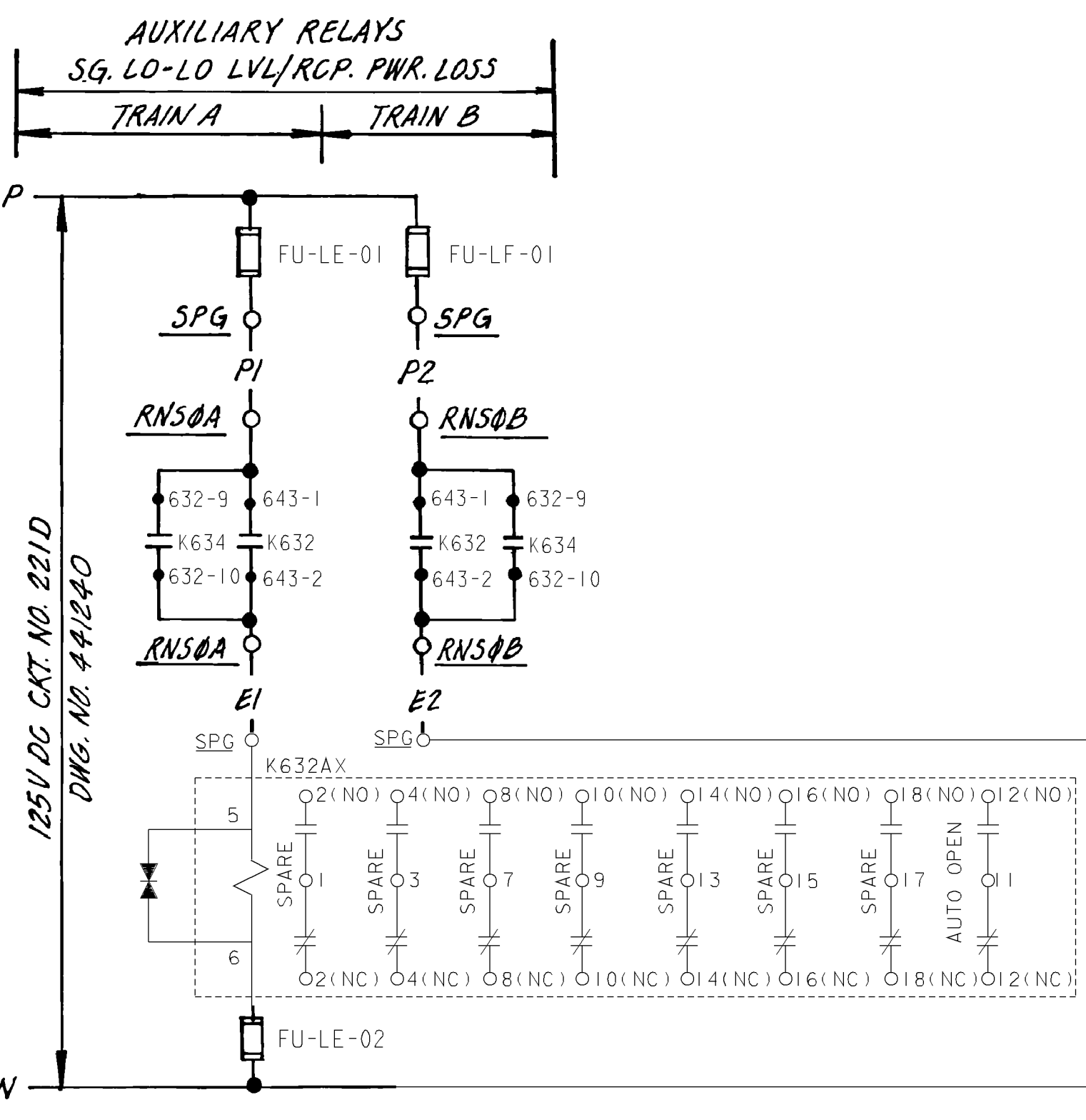


125VDC CONTROL SCHEMATIC
FCV95-AUX. FWP TURB 21 STEAM SUPPLY HEADER M.O.V. CKT. NO. 230D

ALARM CIRCUIT NOS.		COMPUTER CIRCUIT NO.	
OVERCURRENT	TRANS OF CONT.	UNDERVOLTAGE	AUX. FWP RUNNING POS441
A14-11DG	A15066DG	AV2406DG	C128-44DG



FCV152 AUX. FWP TURB. STEAM INLET VALVE
CIRCUIT NO. 10152FCV01
ALARM CIRCUIT NO.
VALVE FULLY CLOSED POSITION
AY2414D



CONTACTS	VALVE POSITION		FUNCTION
	FULL OPEN	FULL CLOSED	
1			SPARE
2			COMPUTER
3			GREEN LIGHT
4			OPEN LIMIT
5			BYPASS INTLK
6			SPARE
7			SPARE
8			CLOSE LIMIT
9			BYPASS INTLK
10			SPARE
11			SPARE
12			SPARE
13			SPARE
14			SPARE
15			RED LIGHT
16			SPARE

FCV 95 VALVE POSITION SWITCH CONTACT DEVELOPMENT
POS441
ACTUAL CONTACT SETTING ARE IN PIMS

DEVICE NO.	FUNCTION	RATING	MFR.	TYPE	CAT/DWG	REMARKS
T2-2230	CIRCUIT BREAKER 125V DC				REF DWG 1	
42-2230	MOTOR STARTER REVERSIBLE SIZE 1	125VDC	ABB		REF DWG 6	
K10BA, K10BB	AMSAC SYSTEM		W.E.		6008434-4A5	
43X-2230	CONTROL TRANSFER RELAY	125VDC	ELECTRO SW CORP	SERIES 24 LOR	7803F	HAND RESET
49-2230	MOTOR OVERLOAD RELAY	125VDC	ABB		REF DWG 6	S.C. 95-5778
49X-2230	MOTOR OVERLOAD AUX RELAY	125VDC	P&B		REF DWG 6	S.C. 93-0653
KG32	RCP BUS UNDER VOLTAGE AUX RLY				REF B F 15	
KG34	STM GEN LO-LO LVL AUX RLY				REF B F 15	
K632AX, K632BX	SG LO-LO LVL/RCP POWER LOSS AUX RELAY	125VDC	POTTER & BRUMFIELD	MDR	MDR-5076-1	LOCATED IN AUX. RELAY PNL MCC "26"
POS426A, B	POSITION SWITCH				REF DWG 13	
POS441					REF DWG 7	SEE TABLE FOR SW NO.'S
CIAX2-G	CNT ISOL PH A AUX RLY. MOTOR OC BYPASS				REF DWG 4	CLOSES ON PHASE A ISOL & S1'S ACTUATION
27-2230	UNDERVOLTAGE RELAY	125VDC	GE		REF DWG 6	
FCV152	FLOW CONTROL VALVE				REF DWG 13	
YI-4	AUX. FEEDWATER P.P. SPEED INDICATOR				REF DWG 13	

LOCATION CODE

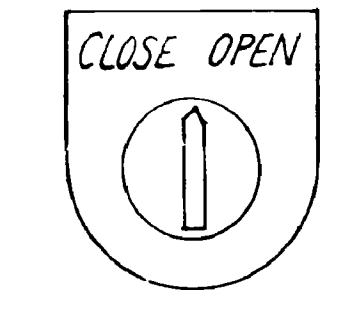
LD30 - LOCAL STARTER FCV95 AUX. FWP TURB. 21
SPG - #80V MOTOR CONTROL CENTER BUS SECTION "26"
CB - CONTROL BOARD 2VB3 STEAM & TURBINE
H01 - HOT SHUTDOWN REMOTE CONTROL PANEL 1
MD30 - FCV95 AUX. FWP TURBINE 21
RNS0B - RACK NUCLEAR SAFEGUARD OUTPUTS TRAIN B
XFCV152 - INSTRUMENT NO FCV152 LOCAL MOUNTED
RFWA - RACK AMSAC SYSTEM TRAIN A

NOTES

1. SWITCH OPENS ON MECHANICAL TORQUE DURING OPENING CYCLE (18).
2. FIELD TO INSTALL JUMPER FOR TORQUE SETTING
3. FIELD TO INSTALL JUMPER FOR TORQUE SETTING

REFERENCES

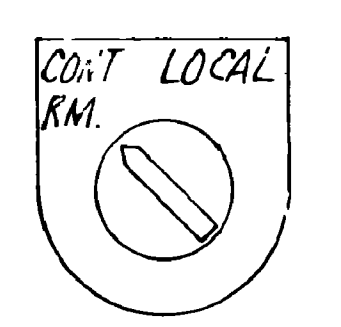
1. SINGLE LINE METER & RELAY DIAGRAM 125V DC SYSTEMS... 44124D
2. SCHEMATIC DIAGRAM STEAM GENERATOR BLOWDOWN VALVES... 441461
3. MAIN ANNUNCIATOR SH. 1... 500771
4. SAFETY INJECTION SYSTEM, M.Q.V... 441318
5. AUXILIARY FEEDWATER PUMP TURBINE CONTROL... 441303
6. & WIRING DIAGRAM FULL VOLTAGE REVERSING D.C. STARTER... REC. 663345-91
7. LIMITORQUE WIRING DIAGRAM... REC. 603317-133
8. INTERCONNECTION DIAGRAM SOLID STATE PROTECTION SYSTEM OUTPUT TRAIN A & B... 458832
9. DESCRIPTION OF ELECT. SCHEMATIC DIAG. SYMBOLS & CIRCUIT DESIGNATIONS... 050003
10. SINGLE LINE DIAGRAM MAIN CONTROL BOARD 2VB1 & 2VB2 FUSE PANEL... 451805
11. PIPING SCHEMATIC TURBINE STEAM SUPPLY SYSTEM... 108004
12. INSTRUMENT SCHEMATIC FLOW INSTRUMENT SYSTEMS... 108032
13. AUX. FEEDWATER PUMP TURB. STEAM INLET VALVE POS. SW. TYPE G52 WIRING DIAG... 663056-94
14. SINGLE LINE METER & RELAY DIAGRAM 120V INSTRUMENT A.C. SYSTEM... 441241
15. SCHEM. DIAG. SSPS OUTPUT RELAYS, TRAIN A, TRAIN B... DWGS. 503089, 503093
16. ATWS MITIGATION SYSTEM ACTUATION CIRCUITRY (AMSAC)... 6008434
17. PANEL LD30 DOC AFWP TURBINE MOV... 455098
18. SCHEMATIC DIAGRAM MAIN ANNUNCIATOR... 500639



CONTACTS	POSITION		REMARKS
	CLOSE	NEUT. OPEN	
A	X		THIS DWG
B		X	
C	X	X	
D	X	X	

CONTROL SWITCH

USED AT LOCATIONS CB, H01
SPRING RETURN TO NEUTRAL
OPERATOR DT2VG



CONTACTS	POSITION		REMARKS
	LOCAL	LOCAL	
A	X		THIS DWG
B	X		SPARE
C	X	X	THIS DWG
D	X	X	SPARE

TRANSFER SWITCH

USED AT LOCATION H01
NO SPRING RETURN

CONTACTS	VALVE POSITION			REMARKS
	FULL OPEN	INTER	FULL CLOSE	
2-1-1	NC		X	SPARE
67-1-3	NO	X		SPARE
5-1-4	NC	X	X	RED
62-1-6	NO	X		SPARE
B-1-7	NC	X		SPARE
61-1-9	NO	X	X	GRN LT
11-1-10	NC	X		SPARE
62-1-12	NO	X	X	ALARM

FCV152 POSITION SWITCH CONTACT DEVELOPMENT
REFERENCE #13

NUCLEAR SAFETY SYSTEM RELATED

KEY DWG. SECTION 6

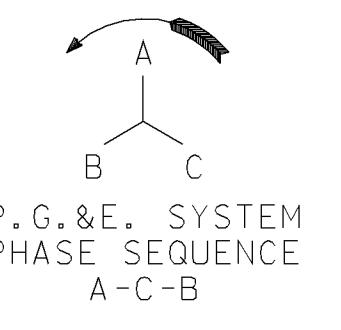
UNIT 2

DATE	REVISION DESCRIPTION
12-23-2013	REVISED PER DFT-742425
D.O. PINW	
R.E. FAZ1	
I.V. KJD3	
P.E. N/A	

DATE	REVISION DESCRIPTION
12-23-2013	REVISED PER DFT-742425

DWG SCALES	DWG NO.
BILL OF MAT'L	455097
SUPDS:	1
SUPDS BY:	0
DRAWING	16
SHEET	
PAGE	
REV	

DATE	REVISION DESCRIPTION
12-23-2013	REVISED PER DFT-742425



RASTER: e:\j\2413.dgn
DWT: e:\j\2413.dgn
CUT: e:\j\2413.dgn
USER: PWB Date: 12-23-2013

455097-1