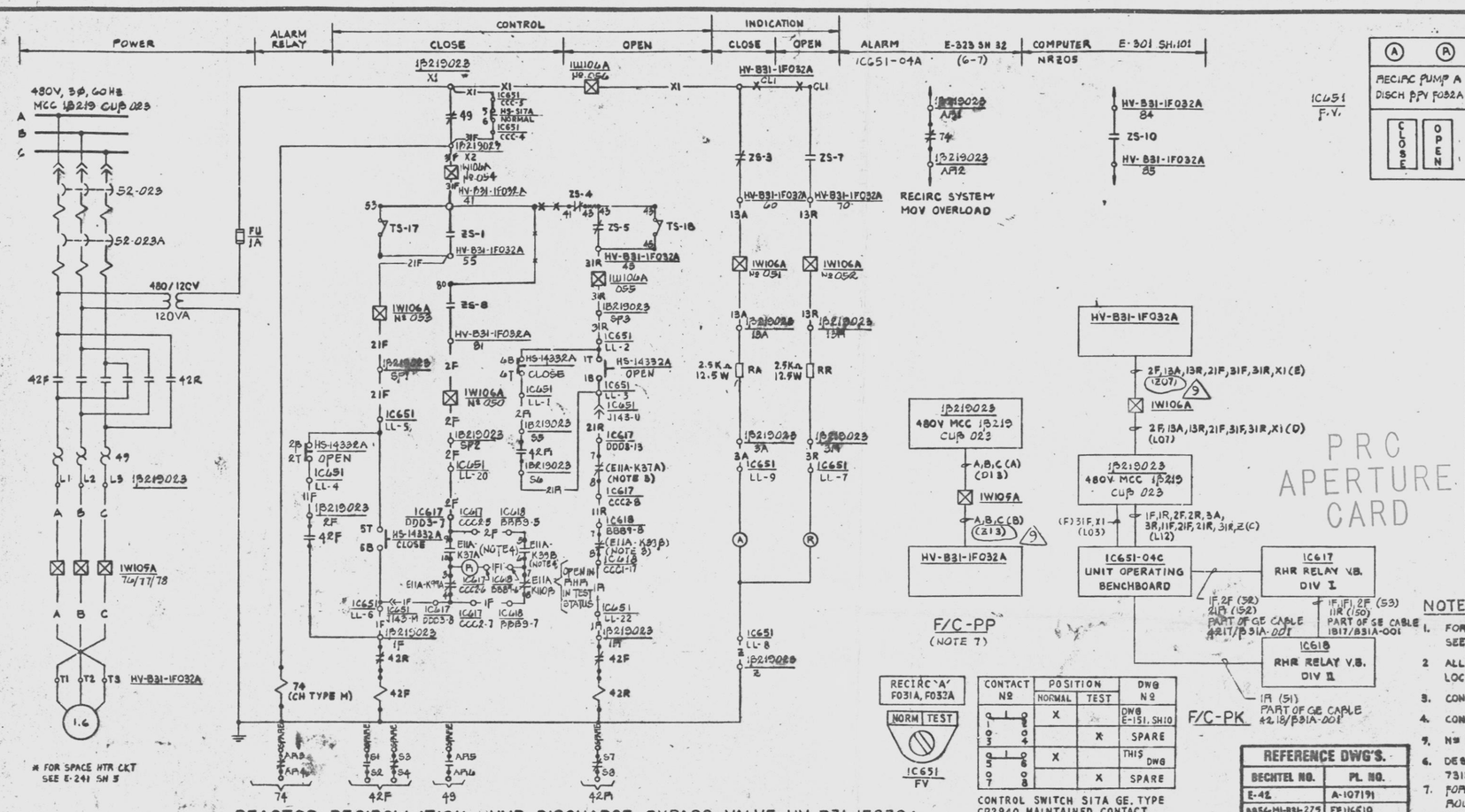

REACTOR RECIRCULATION PUMP DISCHARGE BYPASS VALVE HV-B31-1F032A

SCHEME Nº 1Q1505

REF SH16

SCHEME Nº	VALVE Nº	VALVE DESCRIPTION	HORSEPOWER	FACILITY CODE	STARTER LOCATION	CONTROL SWITCH Nº	CONTROL SWITCH LOC	IC651 TERM. NOS 1F	2F	2R	3A	3R	11F	21F	21R	31R	Z	1R	X1	31F	TEST SW Nº	TEST SW LOC	INTERLOCK Nº			INTERLOCK LOC	INTERLOCK Nº			INTERLOCK LOC
1Q1505	HV-B31-1F032A	RECIRC PUMP A DISCH BPV F032A	1.6	PP/PK	1B219023	HS-14332A (S8A)	IC651-04C	LL-6 J143M	LL-20	LL-1	LL-9	LL-7	LL-4	LL-5	LL-3 J143U	LL-2	LL-8	LL-22	CCC-3	CCC-4	HS-S17A	IC651-04C	E11A-K37A 9 10	E11A-K37A 7 8	E11A-K99A 3 4	IC617	E11A-K39B 5 6	E11A-K39B 7 8	E11A-K110B 7 8	IC618
1Q1506	HV-B31-1F032B	RECIRC PUMP B DISCH BPV F032B	1.6	RP/RK	1B229023	HS-14332B (S8B)	IC651-04C	MM-42 J343-E	MM-57	MM-37	MM-45	MM-43	MM-40	MM-41	MM-39 J343-F	MM-38	MM-44	MM-36	MM-59	MM-60	HS-S17B	IC651-04C	E11A-K39A 5 6	E11A-K39A 7 8	E11A-K110A 7 8	IC617	E11A-K37B 9 10	E11A-K37B 7 8	E11A-K99B 3 4	IC618

IC617 TERMINATION LOC	1F	2F	21F	1F	1F1	2F	11F	IC618 TERMINATION LOC	1F	1F	1F1	2F	11F	PENETRATION Nº	WIRE NOS							LOC	WIRE NOS			GE CABLE (LINE CODE)		COMPUTER POINT	ALARM
IC617	DDD3-8	DDD3-7	DDD3-13	CCC2-7	CCC2-6	CCC2-5	CCC2-8	IC618	CCC1-17	BBB9-7	BBB9-6	BBB9-5	BBB9-8	1W106A	050	051	052	053	054	055	056	1W105A	76	77	78	1B17/B31A-001 (53) (150)	4217/B31A-001 (52)(152) 4218/B31A-002 (51)	NR205	30 7,4 E-323 SH32
IC617	CCC8-5	CCC8-4	CCC8-6	FFF8-7	FFF8-6	FFF8-5	FFF8-8	IC618	DDD1-1	EEE5-7	EEE5-6	EEE5-5	EEE5-8	1W106B	029	030	031	032	033	034	035	1W105B	37	38	39	1B17/B31A-002 (57) (151)	4217/B31A-001 (56)(54) 4218/B31A-002 (55)	NR206	30 7,4 E-323 SH32

CONTACT Nº	POSITION NORMAL	POSITION TEST	DWG Nº
1 2	X		DWG E-151, SH10
3 4		X	SPARE
5 6	X		THIS DWG
7 8		X	SPARE

CONTROL SWITCH S17A GE. TYPE CR2940 MAINTAINED CONTACT SWITCH KEY LOCK IN NORMAL POSITION (SW. DEVELOP. TYPICAL FOR SW S17B FOR VLVS. HV B31-1F031B & HV-B31-1F032B)

REFERENCE DWG'S.	
BECHTEL NO.	PL. NO.
E-42	A-107191
8856-MI-B31-275	FF116510
8856-MI-E11-29	FF 124510

SWITCH DEVELOPMENT

BLOCK No.	CONTACT No.		POSITION CLOSE	POSITION OPEN	DRAWING No.	CONTACT BLOCK CAT. No.
OPEN	1T 0 1B	1		X	THIS SH	KLA 1
	2T 2B	2	X		THIS SH	KLA 2
CLOSE	5T 5B	5	X		THIS SH	KLA 1
	6T 6B	6		X	THIS SH	KLA 2

CONTROL SWITCH: HS-14332 A/B (S8A/B)
GUTLER HAMMER TYPE E-30AC
MOMENTARY WITH MECHANICAL INTERLOCK

VALVE LIMIT SWITCH DEVELOPMENT

CONTACTS	100% OPEN	90% OPEN	INTERMEDIATE	100% CLOSED	CONTACT USED
ZS-1	530—11—035				THIS SH
ZS-2	760—11—077				E-151 SH 1/2
ZS-3	600—11—001				THIS SH
ZS-4	410—11—043				THIS SH
ZS-5	430—11—045				THIS SH
ZS-6	780—11—079				SPARE
ZS-7	210—11—070				THIS SH
ZS-8	800—11—081				THIS SH
ZS-9	820—11—083				SPARE
ZS-10	840—11—085				THIS SH
ZS-11	860—11—087				SPARE
ZS-12	880—11—089				E-151 SH 2/4
ZS-13	900—11—091				SPARE
ZS-14	920—11—093				SPARE
ZS-15	940—11—095				SPARE
ZS-16	960—11—097				SPARE
TS-17	53—8—55				OPEN ON HIGH CLOSING TORQUE	THIS SH
TS-18	43—8—45				OPEN ON HIGH OPENING TORQUE	THIS SH
CONTACT CLOSES						

HV-B31-1F032A, HV-B31-1F032B

NOTES:

1. FOR STANDARD SYMBOLS FOR ELECTRICAL DIAGRAMS SEE DWG E-42.
2. ALL DEVICE Nº TO BE SUFFIXED BY STARTER LOCATION Nº UNLESS NOTED OTHERWISE.
3. CONTACT OPENS ON LPCI (RHR) SYSTEM INITIATED.
4. CONTACT CLOSES ON LPCI (RHR) SYSTEM INITIATED.
5. Nº IN PARENTHESIS ARE GE DEVICE Nº.
6. DESIGN BASED ON GE/APED ELEMENTARY 731E287WJ (V/P 8856-MI-B31-275)
7. FOR RELIABILITY PURPOSES THIS CABLE TO BE ROUTED SEPARATELY FROM OTHER CABLES OF THE SAME DIVISION AS FAR IS PRACTICAL.

No.	DATE	REVISIONS	BY	CHKD	APPD	ENGR	APPD
8	3/8/82	REV TO INCORP FCR E-10763 & REVISED TERM No OF ZS-8 (DCR 42)	RS				
7	7/31/81	REV'D TO INCORP IDCR #2 (SCP 361.120), PCN #1 (DCR 87) & FCR-E-4452	JL				
6	9/10/80	REVISED TERM NO INCORP FCR-E-2046 & FCR-E-2504, DELETED O/L BYPASS (DCR 42)	RG				
5	6/4/82	ISSUED "AS BUILT" REV'D TO INCORP FCN-E-3201	SAR				
4	7/23/76	ISSUED FOR CONSTRUCTION	WSJ				

SCALE NONE | DESIGNED W. SZCZEPANSKI | DRAWN R. FONG

PENNSYLVANIA POWER & LIGHT COMPANY
ALLENTOWN, PENNSYLVANIA
SUSQUEHANNA STEAM ELECTRIC STATION - UNIT 1, UNIT 2

BECHTEL - SAN FRANCISCO

SCHEMATIC DIAGRAM
REACTOR RECIRCULATION PUMP DISCHARGE BYPASS VALVE UNIT 1

JOB No.	DRAWING No.	REV.
8856	E-151 SH 14	9

D-107300 SH 14

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GIT93 SCHEM PUMP DISCH VALVES

24X

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