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NUCLEAR STEAM SUPPLY SYSTEM

GE TYPE HFA RELAY TABULATION (PANEL H12-P609)

13	14	1	2	3	4	5	6	7	8	9	10	11	12
K1A Sh. 7	K7A Sh. 7	K7C Sh. 7	K73 Sh. 10	SP	K26 Sh. 9	K27 Sh. 9	ANN Sh. 4 ▲	K84 Sh. 10					
K2A Sh. 7	K7A Sh. 7	K7C Sh. 7	K73 Sh. 10	SP	K27 Sh. 9	K27 Sh. 9	ANN Sh. 4 ▲	K83 Sh. 10					
K2C Sh. 7	K7A Sh. 7	K7A Sh. 7	SP	SP	COMP Sh. 4 ▲	COMP Sh. 4 ▲	ANN Sh. 4 ▲	SP					
K3A Sh. 7	K7A Sh. 7	K7C Sh. 7	SP	SP	COMP Sh. 4 ▲	COMP Sh. 4 ▲	ANN Sh. 4 ▲	SP					
K3C Sh. 7	K7A Sh. 7	K7A Sh. 7	SP	SP	COMP Sh. 4 ▲	COMP Sh. 4 ▲	ANN Sh. 4 ▲	SP					
K4A Sh. 7	K7A Sh. 7	K7C Sh. 7	SP	SP	SP	SP	ANN Sh. 4 ▲	SP					
K4C Sh. 7	K7C Sh. 7	K7A Sh. 7	SP	SP	SP	SP	ANN Sh. 4 ▲	SP					
K5A Sh. 7	K17 Sh. 10	SP	SP	SP	SP	SP	SP	SP					
K5C Sh. 7	SP	K18 Sh. 10	SP	SP	SP	SP	SP	SP					
K6A Sh. 7	K89 SH. 10	SP	SP	SP	SP	SP	SP	SP					
K6C Sh. 7	K92 SH. 10	SP	SP	SP	SP	SP	SP	SP					
K7A Sh. 7	K14 Sh. 12	LIGHT SH. 7	K52 Sh. 13	TMS PT NO 157 E-303 SH 7	K56 Sh. 10	K7A Sh. 7							
K7C Sh. 7	K14 Sh. 12	LIGHT SH. 7	K52 Sh. 13	TMS PT NO 157 E-303 SH 7	K57 Sh. 10	K7C Sh. 7							
K9A Sh. 11	K7A Sh. 7	SP	SP	SP △BC	SP	SP							
K9C Sh. 11	K7C Sh. 7	SP	SP	SP	SP	SP							
K10A Sh. 7	K7A Sh. 7	SP	SP	SP	ANN Sh. 4 ▲	SP							
K10C Sh. 7	K7C Sh. 7	SP	SP	SP	ANN Sh. 4 ▲	SP							
K13A Sh. 7	K7A Sh. 7	SP	SP	SP	ANN Sh. 4 ▲	SP							
K13C Sh. 7	K7C Sh. 7	SP	SP	SP	ANN Sh. 4 ▲	SP							
K44A Sh. 7	K7A Sh. 7	SP	SP	SP	SP	SEE Sh. 7							
K44C Sh. 7	K7C Sh. 7	SP	SP	SP	SP	SP							
K67A Sh. 7	K10A Sh. 7	SP	SP	SP	ANN Sh. 4	SP							
K67C Sh. 7	K10C Sh. 7	SP	SP	SP	ANN Sh. 4	SP							

▲ = CONTACT TO BE CONVERTED TO NORMALLY CLOSED.

GE TYPE HFA RELAY TABULATION (PANEL H12-P611)

13	14	1	2	3	4	5	6	7	8	9	10	11	12
K1B Sh. 8	K7B Sh. 8	K72 Sh. 10	SP	K26 SH. 9	ANN Sh. 4 ▲	K84 SH. 10							
K1C Sh. 8	K7D Sh. 8	K73 Sh. 10	SP	K27 SH. 9	ANN Sh. 4 ▲	K83 SH. 10							
K2B Sh. 8	K7B Sh. 8	SP	SP	COMP Sh. 4 ▲	ANN Sh. 4 ▲	SP							
K2D Sh. 8	K7D Sh. 8	SP	SP	COMP Sh. 4 ▲	ANN Sh. 4 ▲	SP							
K3B Sh. 8	K7B Sh. 8	SP	SP	COMP Sh. 4 ▲	ANN Sh. 4 ▲	SP							
K3D Sh. 8	K7D Sh. 8	SP	SP	COMP Sh. 4 ▲	ANN Sh. 4 ▲	SP							
K4B Sh. 8	K7B Sh. 8	SP	SP	SP	ANN Sh. 4 ▲	SP							
K4D Sh. 8	K7D Sh. 8	SP	SP	SP	ANN Sh. 4 ▲	SP							
K5B Sh. 8	K17 SH. 10	SP	SP	SP	SP	SP							
K5D Sh. 8	SP	K18 Sh. 10	SP	SP	SP	SP							
K6B Sh. 8	K89 SH. 10	SP	SP	SP	SP	SP							
K6D Sh. 8	K92 SH. 10	SP	SP	SP	SP	SP							
K7B Sh. 8	K51 SH. 12	LIGHT SH. 8	K16 SH. 13	TMS PT NO 158 E-303 SH 7	K56 SH. 10	K7B Sh. 8							
K7D Sh. 8	K51 SH. 12	LIGHT SH. 8	K16 SH. 13	TMS PT NO 158 E-303 SH 7	K57 SH. 10	K7D Sh. 8							
K9B Sh. 11	K7B Sh. 8	SP	SP	SP △BC	SP	SP							
K9D Sh. 11	K7D Sh. 8	SP	SP	SP	SP	SP							
K10B Sh. 8	K7B Sh. 8	SP	SP	SP	ANN Sh. 4 ▲	SP							
K10D Sh. 8	K7D Sh. 8	SP	SP	SP	ANN Sh. 4 ▲	SP							
K13B Sh. 8	K7B Sh. 8	K26 Sh. 9	K72 Sh. 10	SP	ANN Sh. 4 ▲	K56 Sh. 10							
K13D Sh. 8	K7D Sh. 8	K27 Sh. 9	K73 Sh. 10	SP	ANN Sh. 4 ▲	K57 Sh. 10							
K44B Sh. 8	K7B Sh. 8	SP	SP	SP	SP	SEE Sh. 7							
K44D Sh. 8	K7D Sh. 8	SP	SP	SP	SP	SP							
K67B Sh. 8	K10B Sh. 8	SP	SP	SP	ANN Sh. 4	SP							
K67D Sh. 8	K10D Sh. 8	SP	SP	SP	ANN Sh. 4	SP							

▲ = CONTACT TO BE CONVERTED TO NORMALLY CLOSED.

GE TYPE HFA RELAY TABULATION (PANEL H12-P622)

13	14	1	2	3	4	5	6	7	8	9	10	11	12
K14 Sh. 12	K63 Sh. 12	B21-F022A Sh. 12	B21-F022B Sh. 12	B21-F022C Sh. 12	B21-F022D Sh. 12	SP							
K51 Sh. 12	B21-F022A Sh. 12	B21-F022B Sh. 12	B21-F022C Sh. 12	B21-F022D Sh. 12	K63 Sh. 12	SP							
K74C Sh. 12	K7A Sh. 7	K7D Sh. 8	SP	SP	SP	SP							
K75C Sh. 12	K7A Sh. 7	K7D Sh. 8	SP	SP	SP	SP							
K76C Sh. 12	K7A Sh. 7	K7D Sh. 8	SP	SP	SP	SP							
K77C Sh. 12	K7A Sh. 7	K7D Sh. 8	SP	SP	SP	SP							

BC△

GE TYPE HFA RELAY TABULATION (PANEL H12-P623)

13	14	1	2	3	4	5	6	7	8	9	10	11	12
K16 Sh. 13	K64 Sh. 13	B21-F028A Sh. 13	B21-F028B Sh. 13	B21-F028C Sh. 13	B21-F028D Sh. 13	SP							
K52 Sh. 13	B21-F028A Sh. 13	B21-F028B Sh. 13	B21-F028C Sh. 13	B21-F028D Sh. 13	K64 Sh. 13	SP							
K78C Sh. 13	K7B Sh. 8	K7C Sh. 7	SP	SP	SP								
K79C Sh. 13	K7B Sh. 8	K7C Sh. 7	SP	SP	SP	SP							
K80C Sh. 13	K7B Sh. 8	K7C Sh. 7	SP	SP	SP	SP							
K81C Sh. 13	K7B Sh. 8	K7C Sh. 7	SP	SP	SP	SP							

BC△

AGASTAT RELAY TABULATION (PANEL H12-P622)

B1	B4	T1	M1	R1	T2	M2	R2	T3	M3	R3	T4	M4	R4
K11 Sh. 11		K26 Sh. 9	---		SEE Sh. 11	---		K17 Sh. 10	---		K72 Sh. 10	---	
K17 Sh. 10		K17 Sh. 10	---		---	E11-F040 SH. 14		E11-F040 SH. 14	---		SP	SP	
K19 Sh. 15		E11-F079A Sh. 15	---		IND LAMP Sh. 15	---		---	IND LAMP Sh. 15		K19 SH. 15	---	
K21 Sh. 15		E11-F079B Sh. 15	---		IND LAMP Sh. 15	---		---	IND LAMP Sh. 15		K21 SH. 15	---	
K26 Sh. 9		K26 Sh. 9	---		---	G33-F001 Sh. 14		---	IND LAMP SH. 9		G33-F001 SH. 14	---	
K29 Sh. 10		E11-F022 Sh. 14	---		---	E11-F009 Sh. 14		E11-F009 Sh. 14	---		---	E11-F022 Sh. 14	
K31 Sh. 16		K31 Sh. 16	---		B21-R623A SH. 16	B21-R623A Sh. 16		SP	SP		---	A7A4 SH. 4	
K15B Sh. 9		---	ANN REF. 3 SH. 2		SP	SP		K26 Sh. 9	---		SP	SP	
K70 SH. 11		B31-F019 SH. 11	---		SP	SP		SP	SP		K70 SH. 11	---	
K56 Sh. 10		SP	SP		---	B21-F016 Sh. 14		B21-F016 Sh. 14	---		---	IND LAMP Sh. 9	
K59 Sh. 10		SEE SH. 10	---		K21 SH. 15	---		---	IND LAMP SH. 9		K19 SH. 15	---	
K63 Sh. 12		K7D SH. 8		BC△	K7A SH. 7			---	SP		SP	SP	
K91 SH. 11		SP SH. 10	---		K89 SH. 10	---		K29 SH. 10	---		SP	SP	
K89 SH. 10		---	SEE SH. 10		K89 SH. 10	---		---	IND LAMP SH. 9		K29 SH. 10	---	
K90 SH. 10		SP	SP		SP	SP		---	IND LAMP SH. 9		TIP SH. 11	---	
K77 SH. 10		K72 Sh. 10	---		K70 Sh. 11	---		---	IND LAMP Sh. 9		SP	SP	
K82 SH. 10		SP	SP		K29 SH. 10	---		SP	SP		SP	SP	
K84 Sh. 10		SEE Sh. 10	---		SEE Sh. 10	---		SEE Sh. 10	---		K84 SH. 10	---	

AGASTAT RELAY TABULATION (PANEL H12-P623)

B1	B4	T1	M1	R1	T2	M2	R2	T3	M3	R3	T4	M4	R4
K12 Sh. 11		K27 Sh. 9	---		K18 SH. 10	---		SEE Sh. 11	---		K13 Sh. 10	---	
K18 Sh. 10		K18 Sh. 10	---		---	E11-F049 SH. 14		E11-F049 SH. 14	---		K29 SH. 18	---	
K20 Sh. 15		E11-F080A Sh. 15	---		IND LAMP Sh. 15	---		---	IND LAMP Sh. 15		K20 SH. 15	---	
K22 Sh. 15		E11-F080B Sh. 15	---		IND LAMP Sh. 15	---		---	IND LAMP Sh. 15		K22 SH. 15	---	
K25 Sh. 9		---	ANN. REF 3 SH. 2		SP	SP		K27 Sh. 9	---		SP	SP	
K27 Sh. 9		K27 Sh. 9	---		---	G33-F004 Sh. 14		---	IND LAMP Sh. 9		G33-F004 Sh. 14	---	
K30 Sh. 10		E11-F023 Sh. 14	---		---	E11-F008 Sh. 14		E11-F008 Sh. 14	---		---	E11-F023 Sh. 14	
K32 Sh. 16		K32 Sh. 16	---		B21-R623B SH. 16	B21-R623B Sh. 16		SP	SP		---	ANN SH. 4	
K15A Sh. 9		---	ANN REF 3 SH. 2		SP	SP		K27 SH. 9	---		SP	SP	
K71 SH. 11		B31-F020 SH. 11	---		SP	SP		SP	SP		K71 SH. 11	---	
K86 SH. 10		K30 SH. 10	---		SP	SP		SP	SP		SP	SP	
K57 Sh. 10		SP	SP		---	B21-F019 Sh. 14		B21-F019 Sh. 14	---		---	IND LAMP Sh. 9	
K60 Sh. 10		SEE SH. 10	---		K22 SH. 13	---		---	IND LAMP Sh. 9		SP	SP	
K64 Sh. 13		△BC K7C SH. 7	---		K78 SH. 8	---		SP	SP		SP	SP	
K94 SH. 11		K89 SH. 10	---		K92 SH. 10	---		K30 SH. 10	---		SP	SP	
K92 SH. 10		K92 SH. 10	---		---	SEE SH. 10		---	IND LAMP SH. 9		K30 SH. 10	---	
K93 SH. 10		SP	SP		SP	SP		---	IND LAMP SH. 9		SP	SP	
K73 Sh. 10		K73 Sh. 10	---		K71 Sh. 11	---		---	IND LAMP Sh. 9		SP	SP	
K83 Sh. 10		SEE Sh. 10	---		SEE Sh. 10	---		SEE Sh. 10	---		K83 SH. 10	---	

* GE TO PROVIDE DC INTERRUPTING RATING OF THESE RELAY CONTACTS, THE RELAY CONTACTS ARE USED IN 250 V DC CKTS. PLEASE REFER BECHTEL COMMENT ON GE DWG 1450/8238 REV 5.

CONCURS CONCENT

	Y/N				Y/N
BC△					
BC△					
BC△ 7	8/1/82	Y	INCORP FCRE-50068 & DCN # 1 (PDDR KRI-1034-0)	BY	CHK	Des. Sup.	ENG	Proj. Eng.	Letter to Supplier
Bechtel Change	Doc. Rev.	Date	Bechtel Design Involved	Bechtel Change to Supplier Documents					

8-19-82

Form No. 5/71 4 7/70

APED DRAWING REVIEW
COMMENTS AS CHECKED BELOW

E ☐ NO COMMENTS
F ☒ COMMENTS AS INDICATED, FOR APED'S INFORMATION AND USE ONLY. NO REPLY REQUIRED.
G ☐ COMMENTS AS INDICATED, WHEN DIRECTLY AFFECTING BECHTEL RESPONSIBILITY. REPLY REQUIRED IF NOT INCORPORATED BY APED.

DRAWN BY Kadlec 4/8/82
REVIEWED C L M R T
BECHTEL SAN FRANCISCO JOB NO 8856

4-8-82

DISTRIBUTION JOB 8856

	QTY	DATE
CIVIL		
ELECTRICAL		
MECHANICAL		
PLANT DESIGN		
CONTROL SYS.		
ARCH		
SCHEDULE		
QE		
PURCHASING		
EXPEDITERS		
INSPECTION		
STARTUP		
CCG	1	
SUPPLIER		
FIELD		
CLIENT		
RECORD		

8856-M1-B21-131(17)-A5

FF 114510

REVISIONS					PARTS TO
5	N-14758 N-14766	4	5	Deleted C.L.V. Interlock on	
7	N-33767,68	N-110377 F-5-C-41,F5 CCCD			

NO. 83 SAN JOSE 79E401WJ

PRC APERTURE CARD

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