GE TYPE HMA RELAY TABULATION

MTG LOC	5 6	1 7	3	2 8	4
H12-P628	K9A SH. 3	K4A SH. 3	--------	ANN SH. 8	--------
H12-P631	K9B SH. 3	K4B SH. 3	--------	ANN SH. 8	--------
H12-P628	K10A SH. 3	K7A SH. 3	--------	ANN SH. 8	--------
H12-P631	K10B SH. 3	K7B SH. 3	--------	ANN SH. 8	--------
H12-P628	K97 SH. 7	B21-F013M SH. 7	B21-F013M SH. 7	--------	COMPUTER SH. 8
H12-P628	K98 SH. 7	B21-F013M SH. 7	--------	--------	B21-F013M SH. 7
H12-P628	K14A SH. 3	--------	ANN SH. 8	--------	IND LT SH 8
H12-P631	K14B SH. 3	--------	ANN SH. 8	--------	IND LT SH 8
H12-P628	K15A SH. 4	B21-F013G SH. 4	B21-F013G SH. 4	--------	COMPUTER SH. 8
H12-P631	K15B SH. 5	B21-F013G SH. 5	B21-F013G SH. 5	--------	COMPUTER SH. 8
H12-P628	K16A SH. 4	B21-F013J SH. 4	B21-F013J SH. 4	--------	COMPUTER SH. 8
H12-P631	K16B SH. 5	B21-F013J SH. 5	B21-F013J SH. 5	--------	COMPUTER SH. 8
H12-P628	K17A SH. 4	B21-F013K SH. 4	B21-F013K SH. 4	--------	COMPUTER SH. 8
H12-P631	K17B SH. 5	B21-F013K SH. 5	B21-F013K SH. 5	--------	COMPUTER SH. 8
H12-P628	K18A SH. 4	B21-F013L SH. 4	B21-F013L SH. 4	--------	COMPUTER SH. 8
H12-P631	K18B SH. 5	B21-F013L SH. 5	B21-F013L SH. 5	--------	COMPUTER SH. 8
H12-P628	K19A SH. 4	B21-F013M SH. 4	B21-F013M SH. 4	--------	COMPUTER SH. 8
H12-P631	K19B SH. 5	B21-F013M SH. 5	B21-F013M SH. 5	--------	COMPUTER SH. 8
H12-P628	K20A SH. 4	B21-F013N SH. 4	B21-F013N SH. 4	--------	COMPUTER SH. 8
H12-P631	K20B SH. 5	B21-F013N SH. 5	B21-F013N SH. 5	--------	COMPUTER SH. 8
H12-P628	K22 SH. 6	B21-F013A SH. 6	--------	--------	B21-F013A SH. 6
H12-P628	K23 SH. 6	B21-F013A SH. 6	B21-F013A SH. 6	--------	COMPUTER SH. 8
H12-P628	K24 SH. 6	B21-F013F SH. 6	--------	--------	B21-F013F SH. 6
H12-P628	K25 SH. 6	B21-F013F SH. 6	B21-F013F SH. 6	--------	COMPUTER SH. 8
H12-P628	K26 SH. 6	B21-F013G SH. 6	--------	--------	B21-F013G SH. 6
H12-P628	K27 SH. 6	B21-F013G SH. 6	B21-F013G SH. 6	--------	COMPUTER SH. 8
H12-P628	K28 SH. 6	B21-F013B SH. 6	--------	--------	B21-F013B SH. 6
H12-P628	K29 SH. 6	B21-F013B SH. 6	B21-F013B SH. 6	--------	COMPUTER SH. 8
H12-P628	K30 SH. 6	B21-F013E SH. 6	--------	--------	B21-F013E SH. 6
H12-P628	K87 SH. 7	B21-F013R SH. 7	--------	--------	B21-F013R SH. 7
H12-P628	K31 SH. 6	B21-F013E SH. 6	B21-F013E SH. 6	--------	COMPUTER SH. 8
H12-P628	K89 SH. 7	B21-F013R SH. 7	B21-F013R SH. 7	--------	COMPUTER SH. 8
H12-P628	K32 SH. 6	B21-F013H SH. 6	--------	--------	B21-F013H SH. 6
H12-P628	K93 SH. 7	B21-F013H SH. 7	--------	--------	B21-F013H SH. 7
H12-P628	K33 SH. 6	B21-F013H SH. 6	B21-F013H SH. 6	--------	COMPUTER SH. 8
H12-P628	K90 SH. 7	B21-F013H SH. 7	B21-F013H SH. 7	--------	COMPUTER SH. 8
H12-P628	K34 SH. 6	B21-F013C SH. 6	--------	--------	B21-F013C SH. 6
H12-P628	K91 SH. 7	B21-F013P SH. 7	--------	--------	B21-F013P SH. 7
H12-P628	K35 SH. 6	B21-F013C SH. 6	B21-F013C SH. 6	--------	COMPUTER SH. 8
H12-P628	K92 SH. 7	B21-F013P SH. 7	B21-F013P SH. 7	--------	COMPUTER SH. 8
H12-P628	K36 SH. 6	B21-F013D SH. 6	--------	--------	B21-F013D SH. 6
H12-P628	K93 SH. 7	B21-F013S SH. 7	--------	--------	B21-F013S SH. 7
H12-P628	K37 SH. 6	B21-F013D SH. 6	B21-F013D SH. 6	--------	COMPUTER SH. 8
H12-P628	K94 SH. 7	B21-F013S SH. 7	B21-F013S SH. 7	--------	COMPUTER SH. 8
H12-P628	K38 SH. 6	B21-F013J SH. 6	--------	--------	B21-F013J SH. 6
H12-P628	K39 SH. 6	B21-F013J SH. 6	B21-F013J SH. 6	--------	COMPUTER SH. 8
H12-P628	K40 SH. 7	B21-F013K SH. 7	———	———	B21-F013K SH. 7
H12-P628	K41 SH. 7	B21-F013K SH. 7	B21-F013K SH. 7	———	COMPUTER SH. 8
H12-P628	K42 SH. 7	B21-F013L SH. 7	———	———	B21-F013L SH. 7
H12-P628	K43 SH. 7	B21-F013L SH. 7	B21-F013L SH. 7	———	COMPUTER SH. 8
H12-P628	K99A SH. 3	K99A SH. 3	———	ANN SH. 8	--------
H12-P631	K99B SH. 3	K99B SH. 3	———	ANN SH. 8	--------
H12-P628	K101A SH. 4	-------	ANN SH. 8	------	IND. LT. SH. 8
H12-P631	K101B SH. 5	-------	ANN SH. 8	------	IND. LT. SH. 8
H12-P628	K102A SH. 4	-------	ANN SH. 8	------	IND. LT. SH. 8
H12-P631	K102B SH. 5	-------	ANN SH. 8	------	IND. LT. SH. 8
H12-P628	K103A SH. 4	-------	ANN SH. 8	------	IND. LT. SH. 8
H12-P631	K103B SH. 5	-------	ANN SH. 8	------	IND. LT. SH. 8
H12-P628	K104A SH. 4	-------	ANN SH. 8	------	IND. LT. SH. 8
H12-P631	K104B SH. 5	-------	ANN SH. 8	------	IND. LT. SH. 8
H12-P628	K105A SH. 4	-------	ANN SH. 8	------	IND. LT. SH. 8
H12-P631	K105B SH. 5	-------	ANN SH. 8	------	IND. LT. SH. 8
H12-P628	K106A SH. 4	-------	ANN SH. 8	------	IND. LT. SH. 8
H12-P631	K106B SH. 5	-------	ANN SH. 8	------	IND. LT. SH. 8

GE TYPE HFA RELAY TABULATION

MTG LOC	13 14	1 2	3 4	5 6	7 8	9 10	11 12
H12-P628	K1A SH. 3	B21-F013M SH. 4 ▲	B21-F013N SH. 4 ▲	SP	SP	#TWO PT NO SH 3 #8	SP
H12-P631	K1B SH. 3	B21-F013M SH. 5 ▲	B21-F013N SH. 5 ▲	SP	SP	#TWO PT NO SH. 3 #8	SP
H12-P628	K2A SH. 3	K7A SH. 3	K5A SH. 3	SP	SP	DS1A SH. 3	ANN SH. 8
H12-P631	K2B SH. 3	K7B SH. 3	K4B SH. 3	SP	SP	DS1B SH. 3	ANN SH. 8
H12-P628	K3A SH. 3	K3A SH. 3	K7A SH. 3	SP	SP	DS2A SH. 3	ANN SH. 8
H12-P631	K3B SH. 3	K3B SH. 3	K7B SH. 3	SP	SP	DS2B SH. 3	ANN SH. 8
H12-P628	K4A SH. 3	B21-F013G SH. 4 ▲	B21-F013J SH. 4 ▲	B21-F013K SH.4 ▲	B21-F013L SH.4 ▲	SP	SP
H12-P631	K4B SH. 3	B21-F013G SH. 5 ▲	B21-F013J SH. 5 ▲	B21-F013K SH.5 ▲	B21-F013L SH.5 ▲	SP	SP
H12-P628	K6A SH. 3	B21-F013G SH. 4	B21-F013J SH. 4	B21-F013K SH.4	B21-F013L SH.4	B21-F013M SH. 4	B21-F013N SH. 4
H12-P631	K6B SH. 3	B21-F013G SH. 5	B21-F013J SH. 5	B21-F013K SH.5	B21-F013L SH.5	B21-F013M SH. 5	B21-F013N SH. 5
H12-P628	K7A SH. 3	B21-F013G SH. 4	B21-F013J SH. 4	B21-F013K SH.4	B21-F013L SH.4	B21-F013M SH. 4	B21-F013N SH. 4
H12-P631	K7B SH. 3	B21-F013G SH. 5	B21-F013J SH. 5	B21-F013K SH.5	B21-F013L SH.5	B21-F013M SH. 5	B21-F013N SH. 5
H12-P628	K8A SH. 3	B21-F013M SH. 4 ▲	B21-F013N SH. 4 ▲	SP	#TWO PT NO SH. 3 #8	K9A SH. 3	ANN SH. 8
H12-P631	K8B SH. 3	B21-F013M SH. 5 ▲	B21-F013N SH. 5 ▲	SP	#TWO PT NO SH. 3 #8	K8B SH. 3	ANN SH. 8
H12-P628	K11A SH. 3	B21-F013G SH. 4 ▲	B21-F013J SH. 4 ▲	B21-F013K SH. 4 ▲	B21-F013L SH. 4 ▲	SP	SP
H12-P631	K11B SH. 3	B21-F013G SH. 5 ▲	B21-F013J SH. 5 ▲	B21-F013K SH. 5 ▲	B21-F013L SH. 5 ▲	SP	SP
H12-P628	K12A SH. 3	K5A SH. 3	SP	SP	SP	DS3A SH. 3	ANN SH. 8
H12-P631	K12B SH. 3	K4B SH. 3	SP	SP	SP	DS3B SH. 3	ANN SH. 8
H12-P628	K110A SH 3	K10A SH. 3 ▲	SP	SP	SP	IND. LIGHT SH. 8	ANN SH 8
H12-P631	K110B SH 3	K10B SH. 3 ▲	SP	SP	SP	IND. LIGHT SH. 8	ANN SH 8
H12-P628	K13A SH. 3	K9A SH. 3 ▲	SP	SP	SP	IND LIGHT SH. 8	ANN SH. 8
H12-P631	K13B SH. 3	K9B SH. 3 ▲	SP	SP	SP	IND LIGHT SH 8	ANN SH. 8
H12-P628	K100A SH 3	K100A SH 3	K100A SH 3	SP	SP	SP	ANN SH 8
H12-P631	K100B SH 3	K100B SH 3	K100B SH 3	SP	SP	SP	ANN SH 8

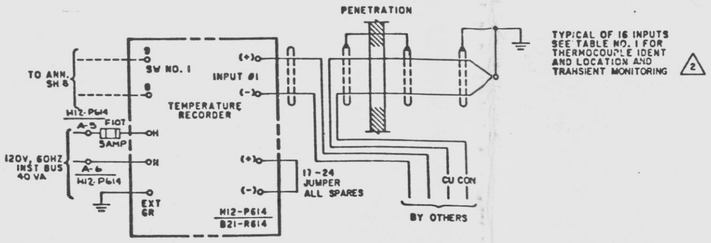
▲ = CONTACTS TO BE CONVERTED TO NORMALLY CLOSED POSITION
= BY OTHERS

AGASTAT 125 VDC RELAY TABULATION (TDPU-DC FORM)

MTG LOC	B1 B4	T1 M1 R1	T2 M2 R2	T3 M3 R3	T4 M4 R4
H12-P628	K5A SH. 3	SP SP	K4A SH. 3 SP	SP SP	SP SP
H12-P631	K5B SH. 3	SP SP	K4B SH. 3 SP	SP SP	SP SP

AGASTAT GP TYPE RELAY TABULATION

MTG LOC	B1 B4	T1 M1 R1	T2 M2 R2	T3 M3 R3	T4 M4 R4
H12-P628	K111A SH 3	SP SP	ANN SH 8 SP	SP SP	SP SP
H12-P631	K111B SH 3	SP SP	ANN SH 8 SP	SP SP	SP SP



TYPICAL OF 16 INPUTS SEE TABLE NO. 1 FOR THERMOCOUPLE IDENT AND LOCATION AND TRANSIENT MONITORING (2)

PUMP, VALVE AND CONTROL TABULATION

DEVICE # REF DESIG	FUNCTION	SWITCH	INDICATOR LAMPS RED	INDICATOR LAMPS AMBER	INDICATOR LAMPS CLEAR A	INDICATOR LAMPS CLEAR B	LOCATION MTG LOC	LOCATION SH
B21-F013G	ADS VALVE	S1A,B	X,X	X,X	XX	XX	*	4,5
B21-F013J	ADS VALVE	S2A,B	X,X	X,X	XX	XX	*	4,5
B21-F013K	ADS VALVE	S3A,B	X,X	X,X	XX	XX	*	4,5
B21-F013L	ADS VALVE	S4A,B	X,X	X,X	XX	XX	*	4,5
B21-F013M	ADS VALVE	S5A,B	X,X	X,X	XX	XX	*	4,5
B21-F013N	ADS VALVE	S6A,B	X,X	X,X	XX	XX	*	4,5
B21-F013A	SAFETY RELIEF VALVE	S8	X	X	---		H12-P601-19C	6
B21-F013B	SAFETY RELIEF VALVE	S9	X	X	---			6
B21-F013C	SAFETY RELIEF VALVE	S10	X	X	---			6
B21-F013D	RELIEF SAFETY VALVE	S11	X	X	---			6
---------	DRYWELL HIGH PRESSURE RESET	S12A,B	---	---	---			3
---------	ADS LOGIC RESET	S13A,B	---	---	---			3
B21-F013E	SAFETY RELIEF VALVE	S15	X	X	---			6
B21-F013F	SAFETY RELIEF VALVE	S17	X	X	---			6
B21-F013G	SAFETY RELIEF VALVE	S18	X	X	---			6
B21-F013H	SAFETY RELIEF VALVE	S19	X	X	---			6
B21-F013J	SAFETY RELIEF VALVE	S20	X	X	---			6
B21-F013K	SAFETY RELIEF VALVE	S21	X	X	---			7
B21-F013L	SAFETY RELIEF VALVE	S22	X	X	---			7
B21-F013M	SAFETY RELIEF VALVE	S23	X	X	---			7
B21-F013N	SAFETY RELIEF VALVE	S24	X	X	---			7
B21-F013P	SAFETY RELIEF VALVE	S25	X	X	---			7
B21-F013R	SAFETY RELIEF VALVE	S26	X	X	---			7
B21-F013S	SAFETY RELIEF VALVE	S27	X	X	---		H12-P601-19C	7
---------	HIGH DRYWELL PRESS	---	---	---	XX		H12-P628	3
---------	HIGH DRYWELL PRESS	---	---	---	XX		H12-P631	3
---------	RPV LOW WATER LEVEL	---	---	---	X		H12-P628	3
---------	RPV LOW WATER LEVEL	---	---	---	X		H12-P631	3
---------	TIMERS INITIATED	---	---	---	XX (WHITE)		H12-P601-19B	3
---------	ADS MANUAL PBS	S30A S31A	---	---	---		H12-P601-19C	3
---------	ADS MANUAL PBS	S30B S31B	---	---	---		H12-P601-19C	3
---------	ADS MANUAL OUT OF SERVICE	97A,B	---	---	XX (GREEN)		H12-P601-19B	8
---------	PWR MONITOR TEST PB (DIV 1)	S33A	---	---	---		H12-P628	3
---------	PWR MONITOR TEST PB (DIV 2)	S33B	---	---	---		H12-P631	3
---------	ADS LOGIC IN TEST	---	---	---	XX (GREEN)		H12-P601-19B	8
---------	ADS LOGIC PWR FAILURE	---	---	---	XX (GREEN)		H12-P601-19B	8

* = H12-P628 "A" CIRCUIT, H12-P631 "B" CIRCUIT } WITH PARALLEL RED LIGHT IN H12-P601-19B

TABLE NO. 1
THERMOCOUPLE IDENTIFICATION & LOCATION

INPUT NO.	THERMOCOUPLE IDENTIFICATION	LOCATION
1.	B21-N004G	B21-F013G
2.	B21-N004J	B21-F013J
3.	B21-N004K	B21-F013K
4.	B21-N004L	B21-F013L
5.	B21-N004M	B21-F013M
6.	B21-N004N	B21-F013N
7.	B21-N004A	B21-F013A
8.	B21-N004B	B21-F013B
9.	B21-N004C	B21-F013C
10.	B21-N004D	B21-F013D
11.	B21-N004E	B21-F013E
12.	B21-N004F	B21-F013F
13.	B21-N004H	B21-F013H
14.	B21-N004P	B21-F013P
15.	B21-N004R	B21-F013R
16.	B21-N004S	B21-F013S
17.	SP	SP
18.	SP	SP
19.	SP	SP
20.	SP	SP
21.	SP	SP
22.	SP	SP
23.	SP	SP
24.	SP	SP

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FF114510

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2	NJ14756 NJ15510
3	NJ18330

NPS SAN JOSE 791E403WJ

15X

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