GENERAL ELECTRIC 807E153TY 2 1

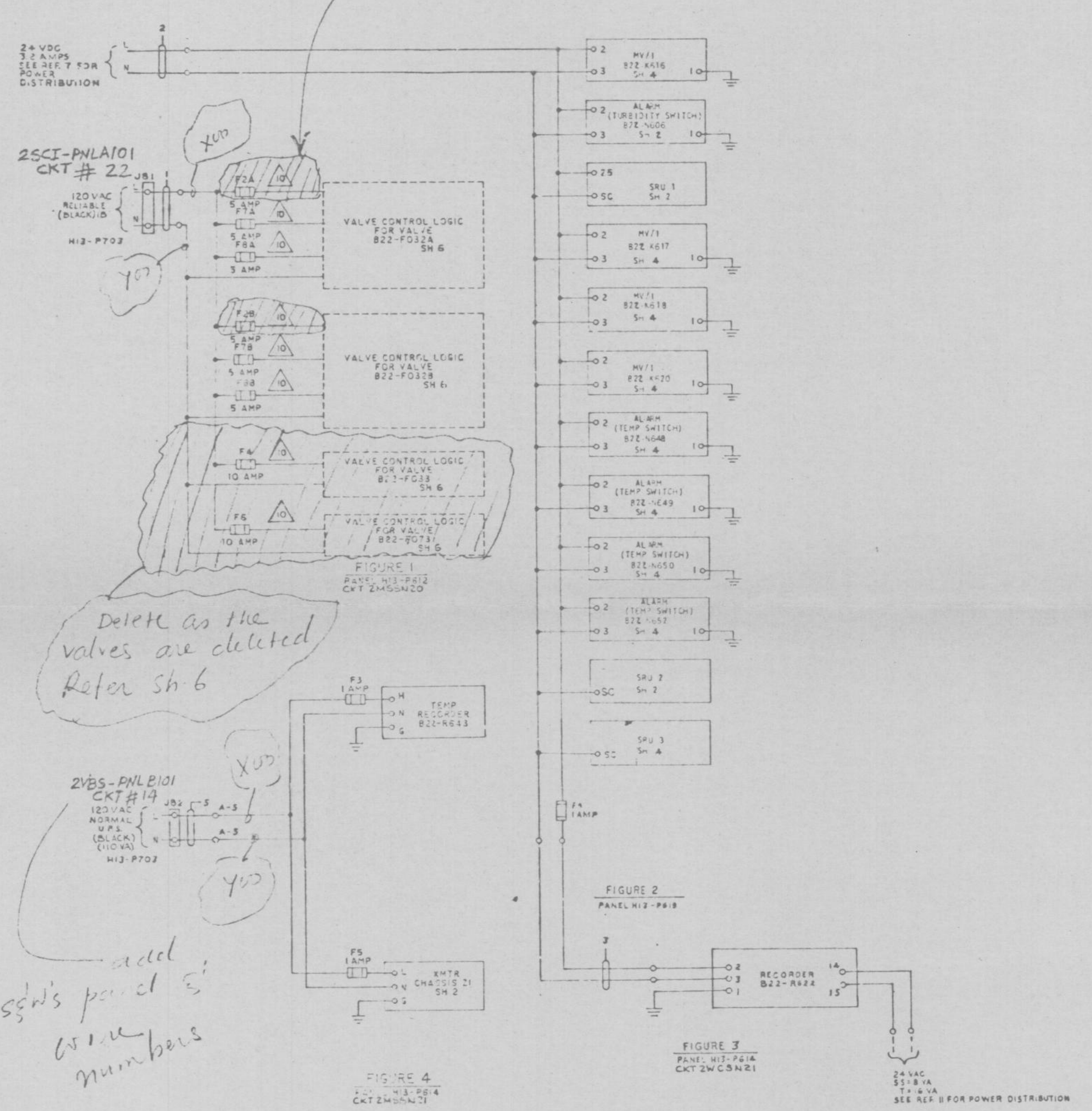
ELEM DIAG — NUCLEAR BOILER PROCESS INSTR SYS — FIRST MADE FOR 238X178AF

APPLIED PRACTICES 55 ✓

FCF: 238X178AF G1(B22-1050)

OVERALL REVISION 3

SUMMARY SHEET	REV
1	3
2	3
3	3
4	3
5	3
6	3



Refer control circuit on Sh #6, this fuse is not required in the circuit.

Delete as the valves are deleted Refer Sh 6

add S&W's panel & wire numbers

LEGEND:

- CONN TO GROUND BUS
- CONN TO SIGNAL COMMON BUS (ISOLATED)
- COMPUTER INPUT
- LINE CODE

NOTES:

1. UNLESS OTHERWISE INDICATED, THE FOLLOWING REFERENCE DESIGNATIONS SHOWN ON THIS DIAGRAM ARE PREFIXED WITH B22A.

REFERENCE DESIGNATION	NAME
Fxx	FUSE
Jxx	JACK
Rxx	RESISTOR
Zxx	ASSEMBLY
CJxxx	COLD JUNC COMPENSATOR
SRUxx	SIGNAL RESIS. UNIT
XXX	LINE CODE (SEE LEGEND)

2. INPUTS FROM 8 THERMOCOUPLES VIA JUNCTION BOX. SEE TABLE 1 FOR IDENT. LOCATION & RECORDER INPUT TERM. NO'S.
3. THERMOCOUPLE WIRES FROM 8 POINTS ARE TO BE TERMINATED IN JUNCTION BOX. A TOTAL OF 4 THERMOCOUPLE WIRES ARE TO BE BROUGHT FROM JUNCTION BOX TO PANEL H13-P619.
4. INTRA-PANEL PROCESS INSTRUMENTATION SIGNAL LEADS SHALL BE BUNDLED AND ROUTED SEPARATELY FROM AC & DC POWER WIRING REF 1.
5. FOR POWER DISTRIBUTION, SEE SH 1.
6. POWER SUPPLY TO FEEDWATER CORROSION PRODUCT MONITORS BY OTHERS.
7. TURBIDITY TRANSMITTER OUTPUT IS 4-20MA.
8. TEMP TRANSMITTER AND TEMP ELEMENT ARE A MATCHED PAIR AND MUST BE INSTALLED AS SUCH.
9. GROUND THERMOCOUPLE EXTENSION SHIELDS IN THE JUNCTION BOX.
10. AE SHOULD VERIFY THE INDICATED FUSE RATINGS & NOTIFY GE NECGID IN THE EVENT OF ANY INCORRECT RATINGS.
11. INDICATOR LIGHTS ARE GE TYPE ET-16 AND ARE SUPPLIED WITH PANEL.
12. ALARMS TO BE RETRANSMITTED TO THE BOP-COMPUTER PER REF 12.

Table 1 shows only 7 T/C, please revise the note (7)

Second element of T/C G33-N021 is directly wired to selector switch on pnl 602. See Ref 7, Sh 4

As per GE letter NMP2-1893 dated 7/11/77, indicate power supply requirement → 120-Vac supply is required

REFERENCE DOCUMENTS:

	MPL NO.	
1.	A62-4010	SPECIAL WIRE & CABLE SPECIFICATION
2.	B35-1010	REACTOR RECIRC
3.	B22-1010	NUCLEAR BOILER SYS P610
4.	A42-1070	MOV & MCC STANDARD
5.	G33-1010	REACTOR WATER CLEAN-UP P&ID
6.	C34-1040	FEEDWATER CONTROL SYS ELEM DIAG (C34A)
7.	G33-1050	REACTOR WATER CLEAN-UP ELEM DIAG (G33A)
8.	B22-1030	NUCLEAR STEAM SUPPLY SHUT-OFF SYS ELEM DIAG (B22H)
9.	117C4593P002	THERMOCOUPLE MOUNTING PHD
10.	C91-4030	PROCESS COMPUTER I/O LIST
11.	C51-1080	POWER RANGE NEUTRON MONITORING SYS ELEM DIAG (C51B)
12.	S&W LOOP DIAGRAM 2IHC-3, COMPUTER I/O-ALARM	

NOTED APR 4 1984 G.K. Bodhisim

ACCEPTABLE FOR MICROFILMING 10-16-81

LINE CODES 1-3, 5 THIS SHEET
LAST LINE CODE USED 78

REV					
3 NE97202, NE97252	2 NE97044, NE97097	1 GENL DOC CHNG NE95550	0 AMD-995		

NED 807E153TY 2 1

CHKD BY RD TALLET

STONE & WEBSTER ENGINEERING CORPORATION
NINE MILE POINT NUCLEAR STATION - UNIT 2
NIAGARA MOHAWK POWER CORPORATION
J. O. 12177

MANUFACTURER'S DRAWING DATA FORM J. CAREY

RESP ENG (E1): ~~Shash Mehta~~
RESP DES ENG (E1): N/A

✓ INSTRUCTIONS TO SUPPLIER (E2): Comments As Noted
- APPROVED
- APPROVED AS REVISED (AS DEFINED IN SPECIFICATION)
- RELEASED FOR FABRICATION
- RELEASED FOR MATERIAL PURCHASE
- SUPPLIER TO RESUBMIT — QNTY: REVISED PRINTS; REVISED MICROFILM APERTURE CARDS; FOR REVIEW; FOR RECORD; NONE REQUIRED

NOTES:

✓ INSTRUCTIONS TO DESIGN (E1)
- I-O INFORMATION ONLY
- P-L PRELIMINARY LAYOUT
- P-S PRODUCTION STUDIES
- R&C REVIEW AND COMMENT
- F-D FINAL DETAILS
- NEW NEW
- REV REVISED

DATE TO DESIGN (C) N/A — REQUIRED RETURN DATE (E1) N/A

(E1) ✓ FOR INFORMATION ONLY RETURN TO SUPPLIER NOT REQUIRED

INSTRUCTIONS TO DESIGN (CIRCLE)(E1): I-O P-L P-S R&C F-D NEW REV

DESIGN ENGINEER'S DATE STAMP (D) OUT
DESIGN ENGINEER'S DATE STAMP (D) IN

INITIALS OF SELECTED REVIEWERS: N/A

RESPONSIBLE ENGINEER'S DATE STAMP (E2): NOTED OCT 1 4 1981 J.D. CAREY

SUPERSEDES S&W FILE NO (E1)(25-34) (35-38): 0007912001010201
REMARKS (C) (LIMIT TO 22 CHARACTERS & BLANKS)(53-74)

S&W EQUIP I.D. CODE (E1)(25-36): 2NSS — AREA DESIGNATION CODES (E1) 75-80

MFR'S DWG NO (C)(LIMIT TO 24 CHARACTERS & BLANKS)(37-60): 807E153TY Sh.1 Rev3
MFR'S NAME (C)(LIMIT TO 20 CHARACTERS & BLANKS)(61-80): General Elect

DATE REC'D (C): MONTH 10 DAY 16 YR(25-30) 81 — DWG TYPE (E1) C — MAX DAYS IN DESIGN (E1)(32-33) 21

FUNCTIONAL TITLE (E1) (LIMIT TO 44 CHARACTERS & BLANKS)(37-80): Nuc Boiler Process Inst

S&W FILE NO (E1)(11-20)(21-24): 0007912001010201E
JOB ORDER NO. 12177 00 (4-10)

DESIGN GROUP ROUTING (D)

ROUTE ✓		REQUIRED PRINT	REQUIRED MAC	RVW *
	ARCHITECTURE			
	CIVIL			
	CONCRETE			
	STEEL			
	BUILDING SERVICE			
	INSTRUMENT			
	MECHANICAL			
	PIPE SUPPORT			
	STRESS			
	MACHINE DESIGN/VESSEL			
	ELECTRICAL			
	LIGHTING			
	MODEL SHOP			
	EXTENSION OFFICE			
	CONTROL			

(C) PROJECT CLERK
(D) RESP. DESIGN ENGINEER
(E1) RESP. ENGINEER - ON DWG RECEIPT
(E2) RESP. ENGINEER - AFTER DWG REVIEW
MAC - MICROFILM APERTURE CARD
* RVW - REVIEWER INITIALS

ATTACH TO MFR'S DRAWING

PRC APERTURE CARD

D