DRAWING C-23077-C
SHEET 4 CONT. ON SH. 5

120VAC (25C12) FROM AUX CONT CAB 1S33 VIA HORIZ WIRE WAY

10 AMP FU3

34A9/7 (13L1)
34A9/8 (13L0)
34A9/5
34A9/9
34A9/6
34A9/10

DOOR SW. IS34
CONVENIENCE OUTLET IS34
FLOURESCENT LIGHT IS34
DOOR SW. IS35
CONVENIENCE OUTLET IS35
FLOURESCENT LIGHT IS35
GND

REACTOR LEVEL FROM SWITCH ID34
15 SH2
ID66 CONTROLLER 54000
9DAS254P 9DAS254N } TO IDAS CABINET MASTER FW FLOW CONTROL
ID084 IS34-24
ALARM 560330
ID039 COMP MODULE (SEE NOTE 6A)
SELECTOR SWITCH CONTACTS
ID023M PROP AMP 56302
IS34-15
ID105A ID106A
34B7/6 34B7/8 34B7/7
34B6/6 ID107 ID106B 34B6/7
ID118 ID116 ID117 34B6/8 34B6/9 34B6/10
34B7/1 ID112
34B7/2 ID113
34B6/1
ID109
FU19 1A (SEE NOTE 6B)

ID16A SHAFT PUMP BIAS M/A
ID114 34B7/3
ID115 34B7/4
ID119 ID121A 34A10/8 ID121
34B3/12
ID66B CONTROLLER 54364
ID66C SET PT. 52407
FU15 1A IS34
34B10/7 (2K)
34B5/8
34A10/10 34A10/9 ID121
34B5/10

ID42 IS34-23 LIMITER 562-300AAAC1
34B6/12 ID110
ID15B
MOTOR PUMP 11 BIAS M/A
ID15C
MOTOR PUMP 12 BIAS M/A

ISOLATOR ISOSIG-29-244
TO IDAS CABINET SIGNAL TO #13 FCV (1-5VDC)
9DAS253N 9DAS253P 250Ω
34B4/2 34B4/1
-24 VDC
POWER SUPPLY PWRS-29-245
FU1 6A
34A9/7 34A9/8
K8
34B5/8

IDAS CAB. PT. F-326
34B4/12 34B5/9
1.6A 34E4/11
ID83A IS34 16
ALARM 560320
TO AIR FAILURE INTERLOCK CIRCUIT SEE DWG. C19951C, SH.3
34B3/8 34B3/9 34B3/10 34B3/11 34B3/12 34B4/1 34B4/2
ID121
ID120
P01 VALVE POSITION INDICATOR P01-29-134
34A11/6
POWER SUPPLY PWRS-29-136
SIGNAL CONDITIONER I/I-29-136
FU-16 1A IC2L IC2O
FU-18 1A
120VAC (25C12) RPS BUS 11 N CKT.12
34A11/7
FU-17 1A
34A11/4 34A11/3
SHAFT PUMP#13 CONTROL VALVE 29-134 POSITIONER POT-29-136 LOC. @ VALVE
ALARM MODULE ESE-29-136

FROM SH.5 DEV. METER SIGNAL 4A
ID141 ID142 ID144 ID143
34A3/1 34A3/2 34A3/3 34A3/4 34A3/5
34B5/11 ID122
34B7/5 ID123
FROM SH.1 3A 3AA
6A TO SH. 5
ID96 IS32 INPUT CONVERTER 2A1-H2V
ID60 IS32 CONTROLLER 2AP-A1-P2
TO FW SETPT. SETDOWN INITIATION CKT. SEE THIS DWG.
ALARM 2AP+ALM-AR
ID97A IS32 CONTROLLER 2AC-M2+A4
ID100 IS32 RELAY BUFFER 2AP-A+RBF
ID98 IS32 OUTPUT CONVERTER 2AO-V2I+P+P
ID97B IS32 CONTROLLER 2AC-M2+A4
29-498 IF53 CONTROL DISPLAY M/A STATION N-250HM-M2NH-F
29-508 IF54 CONTROL DISPLAY M/A STATION N-250HM-M2NH-F

LFV11-1 LFV11-1A LFV11-2 LFV12-1A LFV12-1 LFV12-2
3μF K5 IS34 4 K5 5 IS34 1/2W 470Ω(R1)
4μF K5A IS34 4 5 1/2W 470Ω(R2)
29-49A E/P LOW FLOW CONTROL VALVE#11 #29-49
29-50A E/P LOW FLOW CONTROL VALVE#12 #29-50

ID16B MANUAL LOADING STATION 54288 4H26
ID067 ID068
34A5/7 34A5/8 K5 K5A
CONTACT CLOSED FOR HPCI SEE SH.5
I/P 30-318
FEEDWATER RECIRC FLOW CONTROL VALVE #30-31 (SEE DWG. C22004C, SH.#2)

NOTES
1. NUMBERS IN THE ELLIPSES ARE THE INSTRUMENT TAG NUMBERS
2. RACK LOCATION NUMBERS ARE ADJACENT TO THE INSTRUMENT TAG NUMBERS AND WILL ALSO BE FOUND ON THE RACK ARRANGEMENT DWG. REFERENCED BELOW
3. 1G TO 80MV SIGNALS TO THE COMPUTER MUST BE ISOLATED.
4. REFERENCE DWGS.
ONE LINE - D-3087K11-147
RACK ARRANGEMENT - D-3060K28-377
RUNNING LIST - A-3060K16-383
WIRING DIAGRAM - D-3060K22-894
5. CUSTOMER WIRING BETWEEN RACK & PANELS RACK & FIELD & PANELS & FIELD SHOWN DOTTED.
6. ▲ -RETIRED IN PLACE
A.) ID39-INTERNAL FUSE (1F-1D39) REMOVED AND DEVICE RETIRED IN PLACE.
B.) K RELAY-EXTERNAL FUSE (F-IS34HFU19) REMOVED AND DEVICE RETIRED IN PLACE.

K RELAY GE TYPE 3S2790GA138A1

* ± 15VDC FROM COMPONENT BUS
** 30VDC FROM FIELD BUS

RV2 11K47A FRV3 2K47A FRV4 CONTACTS OPEN FOR HPCI SEE DWG. C19859C, SH. 3 & 6
C120 28 30-35 28 30-36
FEEDWATER RECIRC BLOCKING VALVE #30-32 (SEE DWG. C19951C, SH.8 FOR ADDITIONAL CIRCUIT)

"K8" & "K9" RELAYS
OLYMPIC CONTROLS CORP. PILE-UP: 2 FORM C, 2 FORM D (3AMP) HEADER: 28 PIN PLUG (OCTAL TYPE)
BOTTOM VIEW

SS/RMC-29-169

FW LVL SETPOINT SETDOWN	CONTACTS	POSITIONS		
NORMAL OVERRIDE		TOP	BOTTOM	NORMAL	OVERRIDE
FRONT	1-1 2-2 / 1-1 2-2	1T	1B	X	
		2T	2B		X
BACK	3-3 4-4 / 3-3 4-4	3T	3B	X	
		4T	4B		X

FEEDWATER LEVEL SETPOINT SETDOWN INITIATION CIRCUIT

FU15 1A IS34
PB RESET 1E
11K51A 11K52A 11K55 1551 1552 1551 SEE R.D. #1, SH. 4
12K51A 12K52A 12K55 1557 1556 1557 SEE R.D. #1, SH. 7
K8 IS34
ID060 FWLL
*CONTACT CLOSES ON LOW LEVEL ALARM
SS-NORMAL RMC-29-169
K8 K9 IS34
7 (FWLL6) K9 8 IS34 (5168)
FW LVL SP SETDOWN INDICATING LIGHT SEE RD#2

RPS BUS 11 - CKT.12
120VAC INSTRUMENT POWER BUS FOR AUX. CONT. CAB. 1S34 SEE DWG. C23077C, SH. 6, E21.2

NOTE: THIS DRAWING WAS SCANNED ON CADD PER REVISION 14. THIS DRAWING SUPERSEDES DRAWING OF THE SAME NUMBER AND SHEET.

CRITICAL DRAWING
THIS DRAWING CONTAINS RASTER DATA
ORIGINAL
NOTE: THIS DRAWING WAS CREATED USING COMPUTER AIDED DRAFTING DO NOT MAKE MANUAL CHANGES

REV	DATE	BY	DESCRIPTION OF REVISION	CK	APP	MF
21	10/11/00	JAM	REVISED PER DDC #1E00640A & 1F01183			
2			ELEM WIRING DIAG., REACTOR MANUAL CONTROL SYSTEM	C-22030-C	3	3-N2-E21.2
1			ELEM. WIRING DIAG. REACTOR PROTECTION SYS. (REACTOR TRIP RELAYS)	C-19859-C	4&7	3-N2-E21.2
R.D.			REFERENCE DESCRIPTION	DWG. NO.	SH. NO.	INDEX NO.

NIAGARA MOHAWK
STA NINE MILE POINT NUCLEAR STATION UNIT NO. 1
ACC NO
APP G. K. BROWN
APP W. G. VANDYKE
APP
APP DATE 5-9-88
DES GE DR CECC
MF SCALE NONE
ELEMENTARY WIRING DIAGRAM
FEEDWATER
CONTROL SYSTEM
DWG NO C-23077-C
INDEX 3-N2.1-E21.2
SH 4
REV -

H CONT. ON SH. 5

D-1