RACK 16 GROUP 0

1771-AS3	
1	BLUE
2	SHIELD
3	CLEAR
4	NO CONNECTION
5	NO CONNECTION
6	NO CONNECTION
7	NO CONNECTION
8	NO CONNECTION
9	NO CONNECTION
10	NO CONNECTION
11	IN (RESET)
12	RET (RESET)

1771-P4S	
1	CL1
2	CL2
3	GROUND

A SINGLE POWER IN A POWER-SUPPLY CHASSIS CONNECTED TO AN I/O CHASSIS THROUGH A POWER CABLE

SW1 SW2 ON OFF

Y N Y N

NOTE: ADD END TERMINATION RESISTER IF RACK IS ON END OF REMOTE I/O

I/O CHASSS BACKPLANE SW. ASSEMBLY

OFF ON

USING POWER SUPPLY MODULE IN THIS CHASSIS

Y N

RACK 16 GROUP 1

1771-ODD ISOLATED OUTPUT CARD		
1	FILTER FEED PUMP OP	16-1-00
2	FILTER FEED PUMP SUPPLY	16-1-00S
3	FILTER DRAIN PUMP OP	16-1-01
4	FILTER DRAIN PUMP SUPPLY	16-1-01S
5	DRYER FEED CONVEYOR #24 OP	16-1-02
6	DRYER FEED CONVEYOR #24 SUPPLY	16-1-02S
7	DRYER FEED CONVEYOR #25 OP	16-1-03
8	DRYER FEED CONVEYOR #25 SUPPLY	16-1-03S
9	NOT USED	N/A
10	NOT USED	N/A
11	VACUUM FILTER #2 DRIVE OP	16-1-04
12	VACUUM FILTER #2 DRIVE SUPPLY	16-1-04S
13	VACUUM FILTER #2 AGITATOR OP	16-1-05
14	VACUUM FILT #2 AGITATOR SUPPLY	16-1-05S
15	VACUUM FLT #2 VACUUM PUMP OP	16-1-06
16	VACUUM FLT #2 VACUUM PUMP SUPPLY	16-1-06S
17	VAC FLT #2 SEALING WATER PUMP OP	16-1-07
18	VAC FLT #2 SEALING WATER PUMP SLY	16-1-07S
19	NOT USED	N/A
20	NOT USED	N/A
21	VAC FLT #2 FILTRATE PUMP OP	16-1-10
22	VAC FLT #2 FILTRATE PUMP SLY	16-1-10S
23	VACUUM FLTER #2 BLOWER OP	16-1-11
24	VACUUM FLTER #2 BLOWER SUPPLY	16-1-11S
25	CONVEYOR 25 PRESTART HORN OP	16-1-12
26	CONV 25 PRESTART HORN SUPPLY	16-1-12S
27	CONVEYOR 24 PRESTART HORN OP	16-1-13
28	CONV 24 PRESTART HORN SUPPLY	16-1-13S
29	NOT USED	N/A
30	NOT USED	N/A
31	STANDBY UN-FLOW PUMP OUTPUT	16-1-14
32	STANDBY UN-FLOW PUMP SUPPLY	16-1-14S
33	DISCRETE OUTPUT FROM PLC 3/10	16-1-15
34	DISC OUTPUT FROM PLC 3/10 SUPPLY	16-1-15S
35	DISCRETE OUTPUT FROM PLC 3/10	16-1-16
36	DISC OUTPUT FROM PLC 3/10 SUPPLY	16-1-16S
37	DISCRETE OUTPUT FROM PLC 3/10	16-1-17
38	DISC OUTPUT FROM PLC 3/10 SUPPLY	16-1-17S
39	NOT USED	N/A
40	NOT USED	N/A

RACK 16 GROUP 2

1771-IAD 115VAC INPUT CARD		
A	A	N/A
B	B	N/A
C	C	N/A
D	D	N/A
00	FILTER FEED PUMP AUXILIARY	16-2-00
01	FILTER FEED PUMP PLANT HEALTHY	16-2-01
02	FILTER FEED PUMP STARTER HEALTHY	16-2-02
03	FILTER DRAIN PUMP AUXILIARY	16-2-03
04	FILTER DRAIN PUMP PLANT HEALTHY	16-2-04
05	FILTER DRAIN PUMP STARTER HEALTHY	16-2-05
06	DRYER FEED CONVEYOR #24 AUXILIARY	16-2-06
07	DRYER FEED CONVEYOR #24 EPC	16-2-07
10	DRYER FEED CONVEYOR #24 PCH	16-2-10
11	DRYER FEED CONVEYOR #24 (PH)	16-2-11
12	DRYER FEED CONVEYOR #24 (SH)	16-2-12
13	DRYER FEED CONVEYOR #24 ZSS	16-2-13
14	DRYER FEED CONVEYOR #25 AUXILIARY	16-2-14
15	DRYER FEED CONVEYOR #25 EPC	16-2-15
16	DRYER FEED CONVEYOR #25 PCH	16-2-16
17	DRYER FEED CONVEYOR #25 (PH)	16-2-17
E	AC NEUTRAL	L2

RACK 16 GROUP 3

1771-IAD 115VAC INPUT CARD		
A	A	N/A
B	B	N/A
C	C	N/A
D	D	N/A
00	DRYER FEED CONVEYOR #25 (SH)	16-3-00
01	DRYER FEED CONVEYOR #25 ZSS	16-3-01
02	VACUUM FILTER #2 DRIVE AUX	16-3-02
03	VACUUM FILTER #2 DRIVE (PH)	16-3-03
04	VACUUM FILTER #2 DRIVE (SH)	16-3-04
05	VACUUM FILTER #2 AGITATOR AUX	16-3-05
06	VACUUM FILTER #2 AGITATOR (PH)	16-3-06
07	VACUUM FILTER #2 AGITATOR (SH)	16-3-07
10	VACUUM FILTER #2 VACUUM PUMP AUX	16-3-10
11	VACUUM FILTER #2 VACUUM PUMP (PH)	16-3-11
12	VACUUM FILTER #2 VACUUM PUMP (SH)	16-3-12
13	VACM FILTER SEALING WATER PUMP AUX	16-3-13
14	VACM FILTER SEALING WATER PUMP (PH)	16-3-14
15	VACM FILTER SEALING WATER PUMP (SH)	16-3-15
16	VACUUM FILTER #2 FILTRATE PUMP AUX	16-3-16
17	VACUUM FILTER #2 FILTRATE PUMP (PH)	16-3-17
E	AC NEUTRAL	L2

RACK 16 GROUP 4

1771-IAD 115VAC INPUT CARD		
A	A	N/A
B	B	N/A
C	C	N/A
D	D	N/A
00	VACUUM FILTER #2 BLOWER AUX	16-4-00
01	VACUUM FILTER #2 BLOWER (PH)	16-4-01
02	VACUUM FILTER #2 BLOWER (SH)	16-4-02
03	CONV 25 JOG P.B.	16-4-03
04	CONV 24 JOG P.B.	16-4-04
05	SEALING WATER LOW LEVEL	16-4-05
06	STANDBY WATER PUMP #29A (SH)	16-4-06
07	STANDBY WATER PUMP #29A AUX	16-4-07
10	STANDBY WATER PUMP #29A JOG P.B.	16-4-10
11	STANDBY WATER PUMP #29A (PH)	16-4-11
12	DISCRETE INPUT TO PLC 3/10	16-4-12
13	DISCRETE INPUT TO PLC 3/10	16-4-13
14	DISCRETE INPUT TO PLC 3/10	16-4-14
15	DISCRETE INPUT TO PLC 3/10	16-4-15
16	DISCRETE INPUT TO PLC 3/10	16-4-16
17	DISCRETE INPUT TO PLC 3/10	16-4-17
E	AC NEUTRAL	L2

RACK 16 GROUP 5

RACK 16 GROUP 6

RACK 16 GROUP 7

1771-IFE, ANALOG INPUT CARD		
01	204C VACUUM PUMP (CT)	16-7-00
02	204F FILTER BLOWER (CT)	16-7-01
03	OIL PUMP #1 (CT)	16-7-02
04	OIL PUMP #2 (CT)	16-7-03
05	MODULE COMMON JUMP INTERNAL	N/A
06	CONVEYOR 24 (CT)	16-7-04
07	CONVEYOR 25 (CT)	16-7-05
08	COMBUSTION FAN (CT)	16-7-06
09	FILTER FEED PUMP (CT)	16-7-07
10	MODULE COMMON JUMP INTERNAL	N/A
11	SPARE	16-7-10
12	SPARE	16-7-11
13	SPARE	16-7-12
14	SPARE	16-7-13
15	MODULE COMMON JUMP INTERNAL	N/A
16	SPARE	16-7-14
17	SPARE	16-7-15
18	SPARE	16-7-16
19	SPARE	16-7-17
20	MODULE COMMON JUMP INTERNAL	N/A
21	MODULE COMMON	COMMON

1 5 9 13 17 21 25 29 33 37 41 45 49

CHANNEL 1 CHANNEL 2 CHANNEL 3 CHANNEL 4 CHANNEL 5 CHANNEL 6 CHANNEL 7 CHANNEL 8 CHANNEL 9 CHANNEL 10 CHANNEL 11 CHANNEL 12 CHANNEL 13 CHANNEL 14 CHANNEL 15 CHANNEL 16

TYPICAL DIP SWITCH FOR ALL 1771-IFE CARDS

TYPICAL WIRE NUMBER
14 -1 -01
L1 = 1
CHAN.
CHECK
TERMINAL

1	16-2-00 = AUX. W.T.	201-4	FILTER FEED PUMP
2	16-1-00 = CUTS IN	201-3	
3	16-1-00S, 16-2-01 = PLANT HEALTHY	201-2	
4	16-2-09 = STARTER HEALTHY	201-1	
5	16-2-01 = AUX. W.T.	205-4	FILTER DRAIN PUMP
6	16-1-01 = OUTPUT	205-3	
7	16-1-01S, 16-2-00 = PLANT HEALTHY	205-2	
8	16-2-00 = STARTER HEALTHY	205-1	
9	16-2-06 = AUXILIARY	207-4	DRYER FEED CONVEYOR #24
10	16-1-02 = EMERGENCY PULL CORD	207-3	
11	16-1-02 = OUTPUT	207-2	
12	16-1-02S = PLUG CHUTE SW.	207-1	
13	16-2-11, 16-1-02S = PLANT HEALTHY	207-6	
14	16-2-12 = STARTER HEALTHY		
15	16-2-13 = ZERO SPEED SW.		
16	16-2-14 = AUXILIARY	208-4	DRYER FEED CONVEYOR #25
17	16-2-14 = EMERGENCY PULL CORD	208-3	
18	16-1-03 = OUTPUT	208-5	
19	16-2-16 = PLUG CHUTE SW.	208-2	
20	16-2-17, 16-1-03S = PLANT HEALTHY	208-1	
21	16-3-00 = STARTER HEALTHY	208-6	
22	16-3-01 = ZERO SPEED SW.		
23	16-3-02 = AUXILIARY	204A-4	VACUUM FILTER #2 DRIVE
24	16-1-04 = OUTPUT	204A-3	
25	16-1-04S, 16-3-03 = PLANT HEALTHY	204A-2	
26	16-3-04 = STARTER HEALTHY	204A-1	
27	16-3-05 = AUXILIARY	204B-4	VACUUM FILTER #2 AGITATOR
28	16-1-05 = OUTPUT	204B-3	
29	16-1-05S, 16-3-06 = PLANT HEALTHY	204B-2	
30	16-3-07 = STARTER HEALTHY	204B-1	
31	16-3-10 = AUXILIARY	204C-4	VACUUM FILTER #2 VACUUM PUMP
32	16-1-06 = OUTPUT	204C-3	
33	16-1-06S, 16-3-11 = PLANT HEALTHY	204C-2	
34	16-3-12 = STARTER HEALTHY	204C-1	
35	16-3-13 = AUXILIARY	204D-4	VACUUM FILTER SEALING WATER PUMP
36	16-1-07 = OUTPUT	204D-3	
37	16-1-07S, 16-3-14 = PLANT HEALTHY	204D-2	
38	16-3-15 = STARTER HEALTHY	204D-1	
39	16-3-16 = AUXILIARY	204E-4	VACUUM FILTER #2 FILTRATE PUMP
40	16-1-10 = OUTPUT	204E-3	
41	16-1-10S, 16-3-17 = PLANT HEALTHY	204E-2	
42	16-4-00 = STARTER HEALTHY	204E-1	
43	16-4-01 = AUXILIARY	204F-4	VACUUM FILTER #2 BLOWER
44	16-1-11 = OUTPUT	204F-3	
45	16-1-11S, 16-4-02 = PLANT HEALTHY	204F-2	
46	16-4-03 = STARTER HEALTHY	204F-1	
47	16-1-12 = CONVEYOR 25 PRESTART HORN	16-1-12 & 16-1-12S	
48	16-1-13 = CONVEYOR 24 PRESTART HORN	16-1-13 & 16-1-13S	
49	16-1-14 = STANDBY UNDERFLOW PUMP #29A	16-1-14 & 16-1-14S	
50	16-1-15 = DISCRETE OUTPUT FROM PLC 3/10	16-1-15 & 16-1-15S	
51	16-1-16 = DISCRETE OUTPUT FROM PLC 3/10	16-1-16 & 16-1-16S	
52	16-1-17 = DISCRETE OUTPUT FROM PLC 3/10	16-1-17 & 16-1-17S	
53	16-4-04 = CONVEYOR 25 JOG P.B.	16-4-04	
54	16-4-05 = CONVEYOR 24 JOG P.B.	16-4-05	
55	16-4-06 = SEALING WATER LOW LEVEL	16-4-06	
56	16-4-07 = STANDBY UNDERFLOW PUMP #29A (SH)	16-4-07	
57	16-4-10 = STANDBY UNDERFLOW PUMP #29A (AUX)	16-4-10	
58	16-4-11 = STANDBY UNDERFLOW PUMP #29A JOG P.B.	16-4-11	
59	16-4-12 = STANDBY UNDERFLOW PUMP #29A (PH)	16-4-12	
60	16-4-13 = DISCRETE INPUT TO PLC 3/10	16-4-13	
61	16-4-14 = DISCRETE INPUT TO PLC 3/10	16-4-14	
62	16-4-15 = DISCRETE INPUT TO PLC 3/10	16-4-15	
63	16-4-16 = DISCRETE INPUT TO PLC 3/10	16-4-16	
64	16-4-17 = DISCRETE INPUT TO PLC 3/10	16-4-17	
65	16-1-P = 5A FUSE FOR ISLATROL	L1 FROM BREAKER XX	
66	16-2-P = 6.3A FUSE FOR DISCRETE OUTPUT SUPPLY JUMP TO DISCRETE OUTPUT TERMINALS SUPPLY		
67	L2 = AC NEUTRAL	L2 FROM BREAKER XX	
68	L2 = AC NEUTRAL		
69	L2 = AC NEUTRAL		
70	L2 = AC NEUTRAL		

No.	DATE	REVISIONS DETAILS	APPV

FGR

FGR AUTOMATION & CONTROL SYSTEMS, INC.

ONE MARQUIS PLAZA
5315 CAMPBELLS RUN ROAD
PITTSBURGH, PA 15205

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CLIENT: R & P COAL COMPANY INDIANA, PENNSYLVANIA.			
PROJECT TITLE KEYSTONE CLEANING PLANT			
DATE: 10/20/93	DRAWN: G.E.D.	CKD: G.E.D.	
SCALE: N/A	CHECKED:	APPV:	
DRAWING TITLE: PLC DROP #16			
SHEET 1 OF 1	REVISIONS TO DATE: 0		
DRAWING NUMBER: K001-16-01-02			

IMAPS# 14156