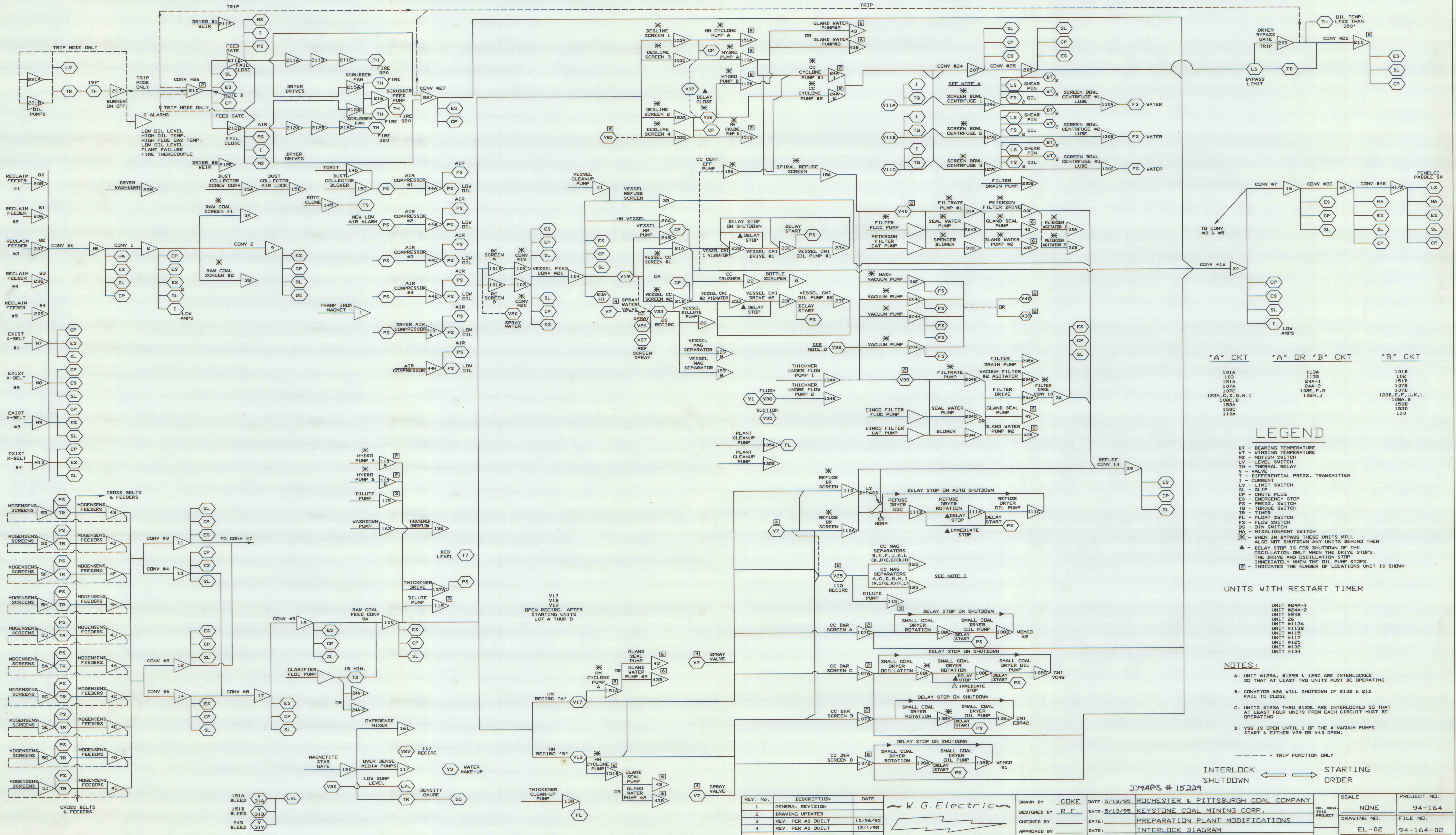




"A" CKT	"A" OR "B" CKT	"B" CKT
101A	113A	101B
103	113B	102
104	114	103
107A	117A	107B
107C	117B	107D
123A, C, D, G, H, I	108E, F, G	108A, B
108C, D	108H, J	108D
153A		153B
153C		153D
110A		110

LEGEND

- BT - BEARING TEMPERATURE
VT - WINDING TEMPERATURE
MS - MOTION SWITCH
LV - LEVEL SWITCH
TH - THERMAL RELAY
V - VALVE
T - DIFFERENTIAL PRESS. TRANSMITTER
LS - LIMIT SWITCH
CP - CHUTE PLUG
ES - EMERGENCY STOP
PS - PRESS. SWITCH
TQ - TORQUE SWITCH
TR - TIMER
FL - FLOAT SWITCH
FS - FLOW SWITCH
BS - BIN SWITCH
MA - MISALIGNMENT SWITCH
* - WHEN IN BYPASS THESE UNITS WILL ALSO NOT SHUTDOWN ANY UNITS BEHIND THEM
▲ - DELAY STOP IS FOR SHUTDOWN OF THE OSCILLATION ONLY WHEN THE DRIVE STOPS. THE DRIVE AND OSCILLATION STOP IMMEDIATELY WHEN THE DRIVE STOPS.
[2] - INDICATES THE NUMBER OF LOCATIONS UNIT IS SHOWN

UNITS WITH RESTART TIMER

- UNIT #24A-1
UNIT #24A-2
UNIT #24B
UNIT #26
UNIT #113A
UNIT #113B
UNIT #117
UNIT #125
UNIT #132
UNIT #134

- NOTES:
A: UNIT #129A, #129B & #129C ARE INTERLOCKED SO THAT AT LEAST TWO UNITS MUST BE OPERATING
B: CONVEYOR #26 WILL SHUTDOWN IF #210B & #210D FAIL TO CLOSE
C: UNITS #123A THRU #123L ARE INTERLOCKED SO THAT AT LEAST FOUR UNITS FROM EACH CIRCUIT MUST BE OPERATING
D: V38 IS OPEN UNTIL 1 OF THE 4 VACUUM PUMPS START & EITHER V39 OR V40 OPEN.

INTERLOCK SHUTDOWN ORDER

IMAPS # 15229

REV. NO.	DESCRIPTION	DATE	DRAWN BY	DATE	ROCHESTER & PITTSBURGH COAL COMPANY	SCALE	PROJECT NO.
1	GENERAL REVISION		COKE	5/13/95	KEYSTONE COAL MINING CORP.	NONE	94-164
2	DRAWING UPDATED		R.F.	5/13/95	PREPARATION PLANT MODIFICATIONS	DRAWING NO.	FILE NO.
3	REV. PER AS BUILT	10/26/95			INTERLOCK DIAGRAM	EL-02	94-164-02
4	REV. PER AS BUILT	12/1/95					