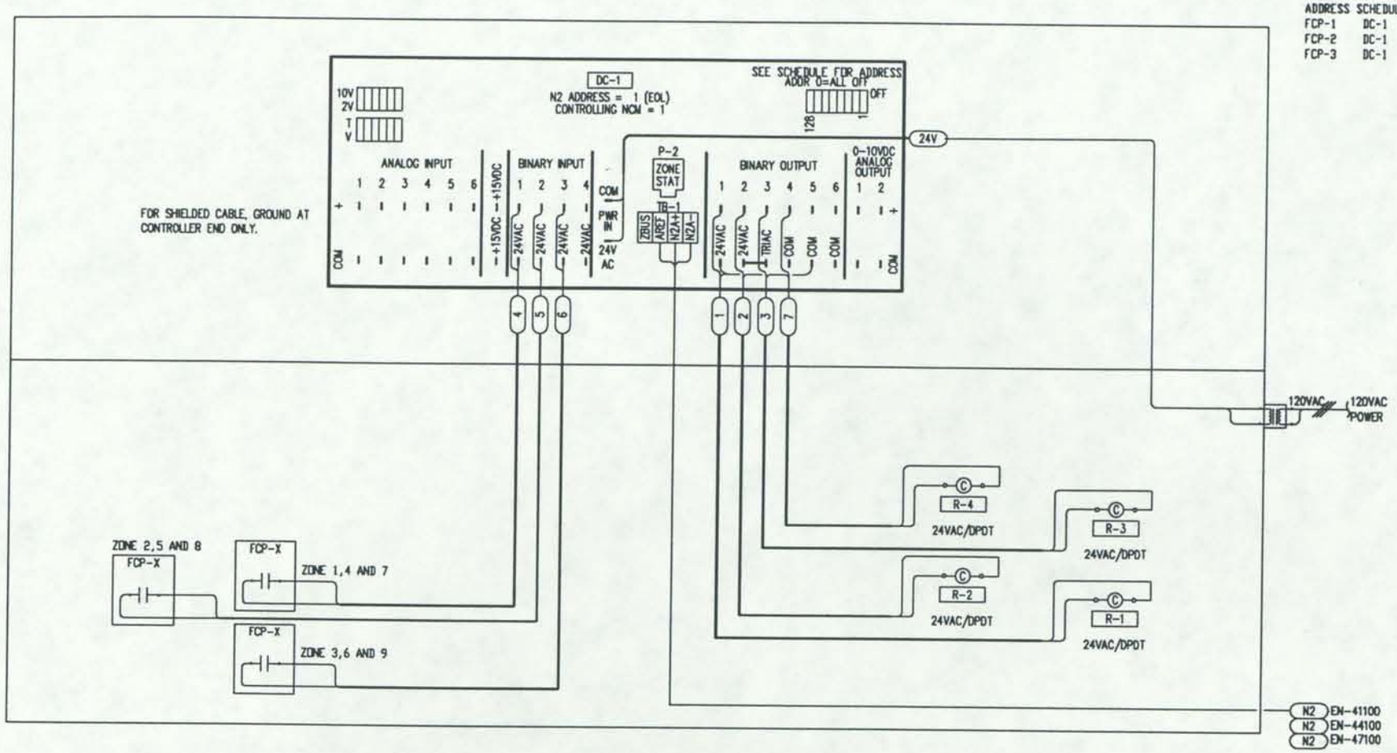
EN-4X117



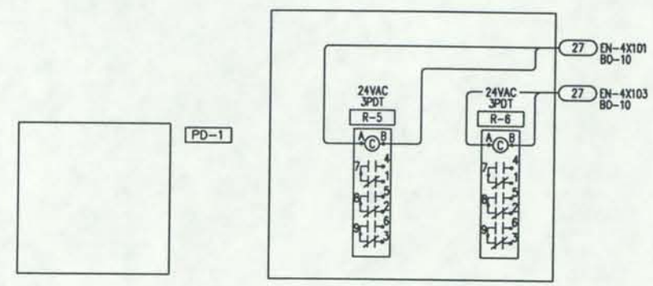
ADDRESS SCHEDULE

FCP-1	DC-1	EN-41117
FCP-2	DC-1	EN-44117
FCP-3	DC-1	EN-47117

PANEL MATERIAL

	DEVICE TAG	QTY	CODE NUMBER	DESCRIPTION
(P)	DC-1	3	AS-UNT111-0	UNITARY CONTRLLR,6 ISD BO
		6	AS-ENC100-0	GENERIC ENCLOSURE KIT
		3	Y65AR-1C	TRANSFORMER
	PB-1	18	BZ-1000-6	ENCLOSURE; 8-1/4"X6-1/4"
	R-1-R-4	12	RH2B-UL/24AC	RELAY-JC
	R-5-R-6	36	PD-109-21	RELAY; PLUG IN 3PDT
		36	PD-101-35	RELAY SOCKET; 11PIN BLADE

SMOKE PURGE FAN INTERFACE TO ICS



SMOKE PURGE FAN CONNECTION SCHEDULE TO RELAYS , R-5 AND R-6

CONNECT THE N.O. CONTACT INTO THE AUTO SIDE OF EACH SMOKE PURGE FAN MOTOR STARTER.

EF-XXX

ICS ENC	RELAY TAG AND CONTACT NUMBERS R-5-1	R-5-2	R-5-3	R-6-1	R-6-2	R-6-3
EN-40101	501	502		503	504	
EN-40103	505	506		507	508	
EN-41101	509	510		511	512	
EN-41103	513	514		515	516	
EN-42101	517	518		519	520	
EN-42103	521	522		523	524	
EN-43101	525	526		527	528	
EN-43103	529	530		531	532	
EN-44101	533	534		535	536	
EN-44103	537	538		539	540	
EN-45101	541	542		543	544	
EN-45103	545	546		547	548	
EN-46101	549	550		551	552	
EN-46103	553	554		555	556	
EN-47101	557	558		559	560	
EN-47103	561	562		563	564	
EN-48101	565	566		567	568	
EN-48103	569	570		571	572	

SEQUENCE OF OPERATION

SMOKE MODE EVENT

THE ICS WILL SCAN ALL NINE(9) PHASES OF THE EXPERIMENT HALL AND IN THE EVENT A SMOKE STATUS IS RECEIVED FROM AN FCP, THE FOLLOWING ACTION WILL BE TAKEN:

ZONE IN SMOKE

- SMOKE EXHUAST FANS WILL START.
- SUPPLY FAN WILL BE COMMANDED OFF.
- VERIFY COMMAND HAS BEEN SENT TO SUPPLY FAN.
- OA AND RA DAMPERS POSITIONED AT ZERO PERCENT. (SMOKE MODE EP SWITCHES WILL BE OFF)
- THE RETURN/EXHAUST FAN WILL OPERATE AT 100 PERCENT.
- CRITICAL ALARM THE ICS.

ZONES AROUND THE ZONE IN SMOKE

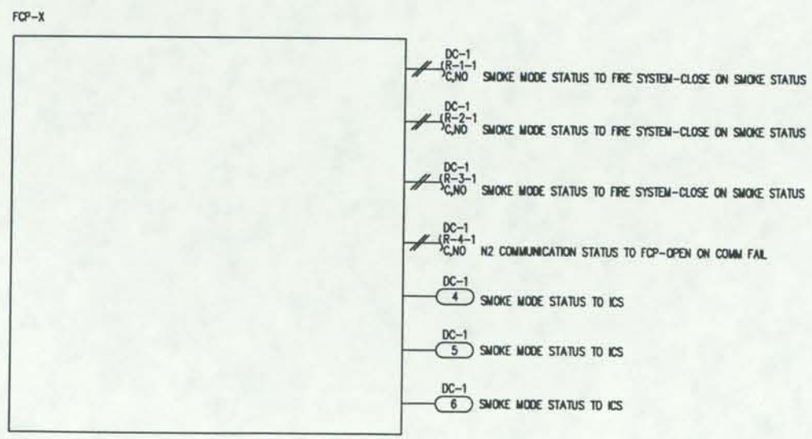
- MIXED AIR DAMPER OUTPUT WILL BE 100 PERCENT.
- SMOKE MODE EP SWITCHES WILL BE OFF.
- VERIFY COMMAND HAS BEEN SENT TO MIXED AIR DAMPERS.
- RETURN/EXHAUST FAN WILL BE COMMANDED OFF.
- SUPPLY FAN WILL CONTINUE TO OPERATE UNDER CONTROL.

SMOKE MODE WILL BE DETERMINED ONLY BY THE INPUT FROM THE FCP.

THE SMOKE MODE SCAN AND ACTIVATION WILL BE A ONE SHOT OPERATION. ONCE ONE SMOKE MODE STATUS HAS BEEN RECEIVED BY THE FCP, NO OTHER ZONE WILL ENTER THE SMOKE MODE SEQUENCE UNTIL THE THE ICS BINARY DATA POINT HAS BEEN RESET.

RELAY, R-4 WILL OPEN IN THE EVENT THAT N2 COMMUNICATION BETWEEN THE ICS INTERFACE PANEL, P-1/DC-6 AND THE FCP IS NOT TAKING PLACE.

IN THE EVENT THAT EITHER ZONE ADJACENT TO THE EAA ENTERS THE SMOKE MODE, ONLY THE ZONE ON THE OPPOSITE SIDE OF THAT SMOKE ZONE WILL ENTER THE PRESSURIZATION SEQUENCE.



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DRAWING TITLE
ICS INTERFACE TO FIRE ALARM SYSTEM

PROJECT
The Argonne National Labs
Advanced Photon Source Campus
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Argonne, IL 60439

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