

SEQUENCE OF OPERATION

GENERAL:
 THE SMOKE CONTROL SYSTEM SHALL BE AUTOMATIC AND IT SHALL BE ACTIVATED BY SMOKE DETECTORS OR BY A DIRECT COMMAND FROM THE SMOKE REMOVAL CONTROL PANEL.
 THE STRATEGY IS TO EVACUATE THE SMOKE AT HIGH POINTS AND SUPPLY MAKE-UP AIR AT THE LOWEST LEVEL.

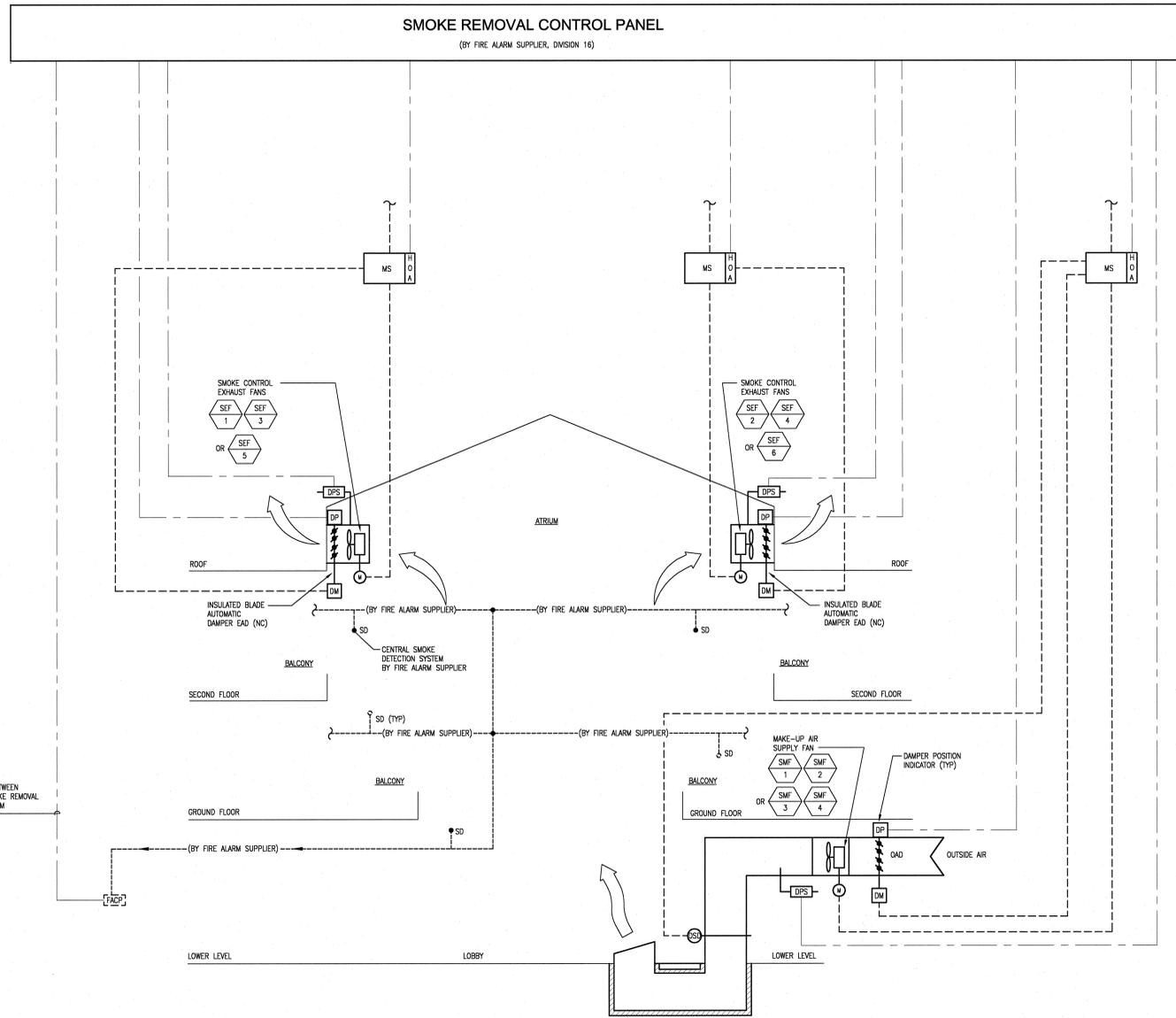
INTERLOCKS:
 PROVIDE INTERLOCKS BETWEEN THE FANS AND THEIR RESPECTIVE MOTORIZED DAMPERS.

SMOKE CONTROL:
 WHENEVER ANY OF THE SMOKE DETECTORS IN THE ATRIUM ARE ACTIVATED, A SIGNAL FROM THE FACP SHALL CAUSE THE SMOKE REMOVAL CONTROL PANEL TO PERFORM THE FOLLOWING:

1. THE ATRIUM SMOKE EXHAUST FANS SHALL START AND RESPECTIVE DAMPERS OPEN.
2. THE MAKE-UP AIR FAN SHALL START AND RESPECTIVE DAMPERS OPEN.

MANUAL PURGE:
 AUTOMATIC CONTROL SHALL BE OVERRIDDEN MANUALLY AT THE SMOKE REMOVAL CONTROL PANEL IN THE LOBBY.

WHEN THE ALARM CONDITION IS CLEARED BY FIRE PROTECTION PERSONNEL IN CHARGE, THE SYSTEM SHALL BE RESET TO NORMAL OPERATING AUTO MODE.



ATRIUM SMOKE CONTROL SYSTEM
NO SCALE

INTERLOCKS BETWEEN FACP AND SMOKE REMOVAL CONTROL SYSTEM AS REQUIRED

SECTION AND DETAIL KEY

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CHANGE CONTROL SYSTEM 4

ENGINEERING PROCEDURE SNS-ENG-0001

REV	DATE	DESCRIPTION	BY	CHKD	DATE	REV	DATE	DESCRIPTION	BY	CHKD	DATE	REV	DATE	DESCRIPTION	BY	CHKD	DATE
0		CERTIFIED FOR CONSTRUCTION - MAY 15, 2001	RTW	KJH													
1	01/11/01		RTW	KJH													
2	02/14/01		RTW	KJH													
3	03/14/01		RTW	KJH													
4	04/11/01		RTW	KJH													
5	05/15/01		RTW	KJH													

Professional Engineer Seal for W. Johnson, State of Tennessee, No. 001059.

REVISION APPROVALS

DATE: 5/14/01

DRAWING APPROVALS

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KNIGHT
Knight Advanced Technology

UT-BATTELLE
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UT-BATTELLE, LLC • Oak Ridge, Tennessee

PROJECT NAME:
SPALLATION NEUTRON SOURCE

CENTRAL LAB AND OFFICE BUILDING
FP - SMOKE REMOVAL CONTROLS
ATRIUM / LOBBY EXHAUST SYSTEMS

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	H	X	X	8	8600		1	1	D	U
51		52	53	WBS						REV
NC	NA			1.8.3.14						H8.10.47