

Example Functional Matrix of Systems Integration Showing Relationship with Fire-resistive Construction

System Input	System Output																			
	Activate Fire Alarm Supervisory Signal to FACP Activate Lights on FACP FACP Notify Central Station Release Door Hold-Open Devices Speaker-Strobe Floor of Incident Speaker-Strobe Floor Above Speaker-Strobe Floor Below Spkr-Strobe All Parking Levels Check Communications Primary Elevator Recall Secondary Elevator Recall Shunt Trip EI Equipment Activate Smoke Control Panel ** Start EI Shaft PF Start Stair 1 PF Start Stair 2 PF Start Smokeproof Enclosure EF Start Corridor EF Stop Corridor Fresh Air Fan Start Garage EF(s) Close Fire Dampers Close Smoke Dampers No Smoke Spread Fire Floor No Smoke Spread Floor Above No Smoke Spread Floor Below Shut Down Music Shut Down Paging System Start Exit Lights Flashing Fire Pump Running Door Open Light on																			
Elevator Lobby SD																				
Floor Smoke Detector																				
Special Detectors																				
FM200 System	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X
SD Elev Equip RM																				
HD Elev Equip RM																				
Restaurant UL300																				
Manual Pull Station																				
Waterflow																				
Duct SD																				
* Usually Only the SD in Front of the Elevator or One in the Elevator Equipment Room Activate Elevator Recall																				
** Smoke Control Systems are Usually Activated in Response to Automatic Devices (SD, HD, Waterflow)																				
*** See Student Manual Job Aids for Types of Detectors																				
Note: Test all system functions on emergency power.																				
Name of Project:																				
Address of Project:																				
Project Engineer:																				
Permit Number																				
Building Permit Number																				
Fire Alarm Permit Number																				
Any Sprinkler Permit Number																				
Any Other Permits Related to the Project																				