Example Functional Matrix of Systems Integration Showing Relationship with Fire Alarm

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 El Equipment	Activate Smoke Control Panel **	Start El 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	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																																	