



BUILDING INSPECTIONS

Life Safety Systems - Fire Alarm Systems (1997 OBC) form revised April, 02

		CLASSIFICATION DATA - (circle one)							
Single Stage		YES	NO	Two Stage System					
Voice Communication System		YES	NO	PERMIT NO.					
No		INSPECTION CHECKLIST				V	L	R	
1.	SYSTEM TYPE	a	Control panel listed for both fire alarm and as a releasing device when used for activation						
		b	A listed and labeled one or two stage fire alarm system, listed for exterior installation						
		c	Fire alarm installed throughout building & if openings present, on both sides of firewall						
		d	Single stage system sounds an alarm signal to sound on all audible signal devices						
		e	2 stage system causes an alert signal to sound first						
		f	2 stage system automatically causes an alarm signal within 5 min., except Group B Div. 2						
		g	In a hotel, 2 stage system causes an alarm signal on the initiating fire zones and alert signal in the remainder of the building						
		h	2 stage system, when zone coded, causes an alert signal in the initiating zone to be repeated not less than 4 times and a continuous signal upon completion of coded signals						
		i	2 stage system, when zone coded, the alert signal is completed in one zone prior to a second zone coded alert signal is repeated not less than 4 times						
3.	MANUAL PULL STATIONS	a	Located in conformance with the building permit documents (watch for barrier-free height)						
		b	Installed near the principal entrance to the building						
		c	Installed in the main reception area of a hotel						
		d	Installed on every floor area near every exit or except for Group C apartment bldgs may be installed in the dwelling unit near egress door and smoke detectors in public corridors, stairwells, fire detectors in common areas and rooms. Signs posted near every exit.						
		e	Key switch activated pull stations only permitted in an impeded egress zone and a contained use area in Group B, Div. 1 and 2 occupancies						
		f	2 stage fire alarm system equipped so that a key or similar device will cause an alarm						
4.	SILENCING OF ALARM SIGNALS	a	Alarm signal cannot be silenced automatically before 5 min. with annunciator or 20 min without annun.						
		b	No manual silencing switches other than those installed inside the control unit						
		c	Alert signal in a care and treatment occ. may be silenced automatically after 1 min.						
5.	SIGNALS TO FIRE DEPARTMENT	a	Signals transmitted for Group A with an occupant load of more than 300, Group B, F1, within the scope of 3.2.6. and a building containing an interconnected floor space						
		b	Signals transmitted when an automatic sprinkler flow switch is activated in a building with a fire alarm						
		c	Legible NOTICE mounted on wall near pull stations where signals are not required to be transmitted FD						
		d	Copy of the central station monitoring contract submitted for review						
6.	ANNUNCIATOR AND ZONE INDICATION	a	Main control unit installed at the entrance or other location in the building						
		b	Annunciator installed in close proximity to a building entrance that faces a street or an access route						
		c	Visual and audible trouble signal device installed inside the main entrance when an annunciator is not required to be installed as part of the fire alarm system						
		d	Separate zones for each storey and 2000 m ² (21,500 ft ²) floor area in a nonsprinklered building.						
		e	Separate zones for each storey and the system area limits as specified in NFPA 13 in a sprinklered bldg.						
		e	Sprinkler zones match fire alarm zones						
		f	Zone for shaft equipped with a smoke detector, i.e. stairs, elevator						
		g	Zone for air handling system required to be equipped with smoke detectors						
		h	Zone for a contained use area						
		i	Zone for an impeded use area						
		j	Zone in a fire compartment within a hospital or nursing home						
		k	Zone for a fire compartment with a vertical fire separation of 2 hrs or >. i.e. restaurant, transformer, etc.						
		l	Geographical layout provided on annunciator and control panel to properly identify zones in complex buildings and where zones are labeled numerically						
		m	Control and annunciator panel alarm and trouble zones identical						
n	Trouble light has been installed in the main reception area or other supervised area in a hotel where the trouble signal sounding device has a silencing switch								
o	An audiovisual fire alarm trouble signal has been located at the main nursing home station								
7.	ELECTRICAL SUPERVISION	a	Sprinkler system supervised to indicate; sprinkler valve movement, loss of system pressure, loss of electrical power to a fire pump						
		b	Electrical supervision of the fire alarm system and voice communication system is provided						
		c	Engine driven generators providing emergency power supply are supervised to cause a common trouble						
8.	DETECTION	a	Spacing of detectors in accordance with the approved plans						
		b	Sprinklers in lieu of fire detectors and electrically supervised						
		c	Fire detector in a storage room not within a dwelling unit						
		d	Fire detector in a service room not within a dwelling unit						
		e	Fire detector in a janitors' rooms						

No	INSPECTION CHECKLIST						V	L	R		
8.	DETECTION continued	f	Fire detector in rooms in which hazardous substances are to be used or stored								
		g	Fire detector in elevator and dumbwaiter shafts								
		h	Fire detector in a laundry room in a building of residential occupancy, but not in a dwelling								
		i	Fire detector in hazardous classrooms & change rooms in elementary and secondary school								
		j	Smoke detectors in public corridors of 'A-1' major occupancy								
		k	Smoke detectors in each sleeping room and each corridor serving sleeping rooms in Group B occ.								
		l	Smoke detectors in each room in a contained use area and corridors serving								
		m	Smoke detectors in each corridor of Group C major occupancy								
		n	Smoke detectors in each stair shaft and at every 3 rd floor level in buildings > 18 m in building height								
		o	Smoke detectors in each corridor serving classrooms in elementary and secondary schools								
		p	Heat detectors in every room of buildings classified Group A, Division 1								
		q	Except in a hotel, heat detector in every suite & room not located within a suite in Group C > 3 storey								
		r	Within a hotel, a heat detector in every room in a suite and every room not within a suite. Not required in a washroom within a suite, saunas, refrigerated areas and swimming pools								
		s	Duct-type smoke detectors in air handling system main supply duct, downstream, serving more than one storey, more than one suite in a storey, or more than one fire compartment in a hospital or nursing home								
t	Where elevators are equipped with automatic recall, smoke detectors are installed on the recall level.										
u	Smoke detectors used as part of a release for a door are listed for that purpose										
9.	ALERT ALARM and VISUAL SIGNALS	a	Alert and alarm signals take priority over all other signals								
		b	Audible signal devices are not used for playing background music, etc.								
		c	Visual signal devices installed in accordance with the approved building permit drawings								
		d	At least one visual signal device is visible throughout the floor area, if required								
		e	Visual signals for Group B occupancy easily identify the location of alarm initiation								
		f	Visual signals may replace audible signals in special care & treatment facilities & visible throughout								
10.	AUDIBILITY of ALARM SYSTEMS	a	Alert & alarm signals are clearly audible throughout the floor area where they are installed								
		b	Temporal pattern of alarm signal conforms to ISO Standard 8201								
		c	Signals from smoke alarms, alert signals and alarm signals are sufficiently different								
		d	The fire alarm signal in normally occupied spaces is not more than 100 dBA @ 3 m from the device and 2000 mm above the floor level								
		e	The fire alarm system in a sleeping room > 75 dBA when intervening doors are closed in a res. occ.								
		f	Fire alarm signal in occupancies other than residential is not less than 65 dBA and not less than 10 dBA above the ambient noise level								
		g	Visual signal devices installed in addition to audible signal devices where the ambient noise level is more than 87 dBA, the occupants use ear protective devices, are in audiometric booths, are located in sound insulated enclosures, or in assembly occupancies where sounds could exceed 100 dBA								
		h	The fire alarm audible device located within a dwelling unit is capable of being silenced for not more than 10 min, after which the device restores to normal operation								
		i	The fire alarm audible device located within a dwelling unit or suite of residential occupancy may be disconnected without interfering with any other devices' ability to sound (line isolator modules installed)								
11.	SMOKE ALARMS	a	Listed smoke alarms installed in each dwelling unit and in each sleeping room not within a dwelling								
		b	At least one smoke alarm installed on each floor in a dwelling unit								
		c	Smoke alarm installed between the sleeping room & the remainder of the storey on ceiling								
		e	Smoke alarm installed with permanent connections, no disconnect switches & interconnected in unit								
12.	VOICE COMMUNICATION SYSTEMS	a	2 way communication system in each floor area								
		b	Loudspeakers operated from the CACF are audible and intelligible in all parts of the bldg.								
		c	Capable of silencing the alert and alarm signals when messages are being transmitted								
		d	Voice instructions selectively transmitted to any zone & maintain an alert or alarm signal in other zone								
		e	Emergency telephones are located in each floor area near exit stair shafts								
13.	GENERAL and VERIFICATION	a	Verification certificate received prior to performing the witness test								
		b	Power supply on separate circuit, painted red and locked in the operating position								
		c	Components are tested/approved and labelled, protected in gyms and for exterior installs								
		d	Certification of fire alarm system received referencing CAN/ULC - S524 - M and S537 -M								
		e	Verification label attached to the main control unit by the verifying organization								
		f	Completion of the Fire Pump checklist if installed								
		g	Receive and review electrical engineer reports pertaining to the installation of fire alarm & CEC Part 1								
V	Date	Inspector	V	Date	Inspector	V	Date	Inspector			
A			C			E					
B			D			F					
COMPLIANCE											
BUILDING INSPECTOR			DATE			CO-SIGNER			DATE		
V - Visit/inspection R - revisit/reinspection X - Not applicable O - Subsequently complied L- Legal status V - In compliance N - Not visible O - Not in compliance and subsequently covered and not visible for inspection O - Not in compliance											