BUILDING INSPECTIONS

Life Safety Systems - Sprinkler, Standpipe and Emergency Power Systems (1997 OBC) revised Sept. 2003

CLASSIFICATION DATA - (circle one)					
Sprinklered Building	YES	NO	Generator for Emergency Power	YES	NO
Sprinklered Cellar/Basement	YES	NO	Carbon Monoxide Removal	YES	NO
Standpipe and Hose System	YES	NO	PERMIT NO.		

No			INSPECTION CHECKLIST	V	L	R
1. SPRINKLER SYSTEM	AREAS PROTECTED	a	All rooms and areas protected (including concealed combustible spaces with a fsr > 25, exceptions apply)			
		b	Heads located below open grid and translucent ceilings			
		c	Ducts and other equipment over 4'-0" wide			
		d	Transformer vault without a heat detector			
		e	Combustible refuse storage room			
		f	Coolers and walk-in freezers			
		g	Clear space below sprinklers and positioned with respect to obstructions			
		h	Baffles or draft stops installed around sprinkler heads located at openings through floors			
		i	Backflow preventor installed where chemicals introduced to prevent freezing			
		j	Other:			
	CONTROL VALVES	a	U.L., U.L.C. or F.M. listed			
		c	Post indicator valves are supervised if required or locked open			
		d	Supervised , if required or locked open			
		e	Low pressure switches			
		f	Flow test, inspector's test valve			
		g	All lines are identified			
		h	Other:			
	FIRE DEPARTMENT CONNECTION	a	Location in accordance with the approved plans			
		b	Siamese I.D. as 'SPRINKLERS' c/w caps, check valve and drain at the lowest point			
		c	1'-0" and max. 3'-0" above grade and 14" wrench clearance			
		d	A sign posted at the connection when the system serves a portion of the building, indicate what floors etc.			
	MAIN RISER	a	Main valve labelled or tagged and supervised or locked open			
		b	Pressure gauges on the system and street side			
		c	Main drain labelled or tagged			
		d	Alarm lines labelled or tagged			
		e	Hydraulic calculations installed			
		f	Space heads, wrench and instructional sheets installed			
		g	Signals transmitted when an automatic sprinkler flow switch is activated in a building with a fire alarm			
		h	Sprinkler valve room heated			
		i	Other:			
	DRY PIPE SYSTEM	a	Accelerator or exhauster on systems greater than 500 gal.			
		b	Water to the inspector's test within 60 sec. on systems greater than 750 gal.			
		c	Drum drips c/w heat tracing at low			
		d	Other:			
	ZONE INDICATION	a	When used in lieu of heat detectors, separate zones for each storey and the system area limits as specified in NFPA 13 in a sprinklered bldg.			
		b	Sprinkler zones match fire alarm zones			
		c	Other:			
	HYDRANTS	a	Fire hydrant location within 45 m of the fire department connection			
		b	Private hydrant location, protected from damage and connection accessible			
		c	Other:			
	CERTIFICATION	a	2" main drain test, residual pressure is > or = design pressure			
		b	Contractor's Material and Test Certificate received A/G ☐ U/G ☐ Private Hydrant ☐			
		c	Fire pump certificate submitted			
		d	Other:			
2. STAND	SYSTEM LAYOUT	a	Number, size and location of riser(s)			
		b	Number, size of piping runs			
		c	Number, size of fire hose cabinets			
		d	Adequate support of piping provided			
	WATER SUPPLY	a	Source O.S.&Y. valve or post indicator valve (PIV)			
		b	Flow and pressure test conducted			
		c	Valves electrically supervised and connected to emergency power			

No	INSPECTION CHECKLIST	V	L	R

2. STANDPIPE SYSTEM CONTD	WATER SUPPLY CONTINUED	d	Listed shut-off valve and drain downstream of valve at the base of each riser			
		e	Fire pump (s) and associated maintenance valves installed in conformance with the permit drawings			
		f	O.S. & Y. valve on the fire pump suction side			
		g	Standpipe connection upstream of water meter			
		h	Cross-connected at the base of the risers			
		i	Pressure gauges at main, before and after all pumps and at highest point of riser, equipped with shut-off valve on ¼" pipe			
		j	Hydraulic calculations posted where the system is designed hydraulically			
		k	Other:			
	HOSE STATIONS	a	Cabinets required in all but 'F' occupancies			
		b	Hose not more than 5'-0" above the finished floor and maximum 5 m. from exit , except 1st fl.			
		c	Additional hose stations installed as per plan in large floor areas/suites			
		d	Maximum 30 m of listed 1 ½" hose on a listed rack			
		e	Drip valve on the hose valve			
		f	Approved shut-off valve and adjustable nozzle			
		h	Over six stories or 4,000 m^2 building area, 2 ½" hose valve with cap and chain			
		i	3/16" glass minimum 70% glass area or sign			
		j	No door obstruction or lock			
		k	Other:			
	FIRE DEPARTMENT CONNECTION	a	Located in accordance with the approved plan			
		b	Two 2 ½" hose connections approved thread			
		c	14" wrench clearance			
		d	Check valve			
		e	No shut-off valve in connection			
		f	Siamese I.D. as 'STANDPIPE" c/w caps			
		g	A sign posted at the connection when the system serves a portion of the building, indicate what areas			
	CERTIFICATION	a	Flow and pressure 200 p.s.i. / 2hrs. 2 of highest and most remote outlets simultaneously			
		b	380 L min./190 L min. with 38 mm hose or 1890 L min. / 945 L min. with 65 mm hose / 450 Kpa - 65 p.s.i., minimum for 30 minutes			
		c	Restrictors installed to maintain a maximum 90 p.s.i. gauge pressure			
		d	Contractor's Material and Test Certificate submitted A/G ☐ B/G ☐			
		e	Fire pump test certificate submitted			
3. EMERGENCY SYSTEM	EMERGENCY LIGHTING	a	Assumes electrical load automatically for two hours, one hour or 30 minutes as required			
		b	Exit signs provided with emergency lighting			
		c	Exits			
		d	Corridors used by the public			
		e	Corridors serving patients' or residents' sleeping rooms in Group B Division 2 or 3			
		f	Corridors serving classrooms			
		g	Underground walkways			
		h	Public corridors			
		i	Floor areas or parts thereof where the public may congregate in Group A, Division 1 occupancies			
		j	Floor areas or parts thereof where the public may congregate in Group A, Division 2, 3 occupancies having an occupant load of 60 persons or more			
		k	Principal routes providing access to exit in an open floor area in Group D, E or F occupancies			
		l	Internal corridors or aisles serving principal routes to exits in Group D, E, or F occupancies			
		m	Emergency lighting provides an average level of illumination of not less than 10 lx at floor or tread level			
	EMERGENCY POWER SUPPLY	a	Fire alarm system, 2 hours, 1 hour, 30 minutes or 5 minutes			
		b	Voice communication			
		c	Elevator serving buildings greater than 36 m in height			
		d	Fire fighters' elevator			
		e	Fans required for limiting smoke movement (OBC 3.2.6.)			
		f	Fans required for venting to aid fire fighting (OBC 3.2.6.)			
		g	Emergency Power verification report submitted when generator installed to provided emergency power			
		h	Fire pumps for fire fighting purposes			

V	Date	Inspector	V	Date	Inspector	V	Date	Inspector
A			B			C		

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