## Testing and Commissioning Checklist for Fire Detection and Fire Alarm System

## I. Reference

Projec	t:			FSD Ref.:		
Addres	ss:					
Type o	of Building:					
				Office/Composite/Hotel/Hospital	/Others	
•••••			. and with/withou	t basement.		
II. Ty <sub>l</sub>	pe of Equipment					
2.1	Alarm Annunciati	on Panel				
2.1.1	Manufacturer/Moo	del No.:	(Main panel)			
			(Sub-panel/re	epeater panel, if any)		
2.1.2	Type:		Conventiona	l type	[	]
			Addressable	type	[	]
2.2	<u>Detectors</u>					
2.2.1	Heat detector	Manufact	urer/Model No.:			
		Type:		Fixed temperature	[	]
				Rate-of-rise temperature	[	]
				Combination	[	]
				Linear cable	[	]
				Others	•••••	· • • • • •
2.2.2	Smoke detector	Manufact	urer/Model No.:			
		Type:		Ionization	[	]
				Optical	[	]
				Beam	[	]
				Aspirating	[	]
				Others		· • • • •
2.2.3	Flame detector	Manufact	urer/Model No.:			
		Type:		Infrared	[	1
		7.1		Ultra-violet	[	]
				Combination	[	]
				Others		· • • • • •
2.2.4	Others	Manufact	urer/Model No.:			
		Type:				

2.3	Manual Call Points  Manufacturer/Model N  Type:	lo.:				Breakglass type Others	[	]
2.4	Alarm Sounders  Manufacturer/Model N	lo.:						
	Type:					Bell	]	]
	J 1					Yodalarm	]	]
						Horn	]	1
						Siren	1	]
						Electronic sounder	1	]
						Others		_
2.5	Visual Fire Alarm Unit	<u>ts</u>						
	Manufacturer/Model N	lo.:						•••••
2.6	Smoke Detector with S Manufacturer/Model N		Bas	<u>se</u>				
2.7	Power Supplies							
2.1	Power Supplies  Mains supply:	Supply	wolt	ogo/Dh	oco/ <b>U</b> z·			
		Зирргу Туре:	von	age/File	asc/112.	Emergency generator	_	
	secondary suppry.	турс.				Feed before main switch	]	]
						Secondary (rechargeable) batter	-	]
	1	Rating:				Voltage	-	
	•	ruumg.				Others	•	
2.8	Fire Resisting Cables Manufacturer/Model N	lo.:						••••
III. Vi	isual Inspection	Y	es	No	N/A		eference SS CI	
3.1	<u>General</u>							
3.1.1	The initial building pla submission is received FSD on or after 1 September 2009.	by	]	[ ]	[ ]		1/200	09
3.1.2	All individual compone of the fire alarm systen including detectors and control panel are mutual compatible.	n l the ally	]	[ ]	[ ]			
	_	-		_	_			

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3.1.3	An as-fitted zoning schedule is provided	Y	es	N	О	N/	'A	Remarks	BS	CL
	adjacent to the alarm annunciation panel.	[	]	[	]	[	]			
3.1.4	A log book is provided adjacent to the alarm annunciation panel.	[	]	[	]	[	]			
3.1.5	The building plans submission for extensions and additions involving major alterations and additions to the building is in excess of 50% by volume and is received by FSD on 1 September 2009 or later.	]	]	[	]	[	]			1/2009
3.2	<u>Detector</u>									
3.2.1	The detection zonings are properly labelled at the alarm annunciation panel.	[	]	[	]	]	]		13.2.4a)	
3.2.2	Detectors are provided in areas as indicated on approved building plans.	[	]	]	]	[	]			
	Point type heat detector: Linear heat cable: Point type smoke detector: Beam smoke detector: Aspirating smoke detector: Flame detector: Others:					nos set set nos	ts s. s ts			

		* 7							Refere	ence
3.2.3	On the floor(s) where	Ye	es	N	0	N/	A	Remarks	BS	CL 2/2009
5.2.5	sleeping risk exists (e.g. hotel, hospital, hostel, etc.):									
	<ul><li>(a) heat detector is used in kitchen and E/M plant room.</li><li>(b) smoke detector is used in other areas except toilet, bathroom and staircase where</li></ul>	[	]	]	]	[	]			
	sprinkler is provided.  (c) sounder base is provided for smoke detector in guestrooms of hotels / guesthouses / bedrooms of student hostels except detector inside concealed space.	[	]		]	[	]			
3.2.4	Detectors are provided to basement according to the approved building plan.	[	]	[	]	]	]			
3.2.5	Intrinsically safe or flameproof device is used within potentially hazardous areas.	[	]	]	]	[	]			
3.2.6	External indicator is provided outside the doors of rooms where travel distance of the detectors inside the rooms exceeds 30 m of reach within a zone.	]	]	]	]	]	]		13.2.3b)	1/2009
3.2.7	Remote indicating lamps are provided for ceiling void or floor void detectors, if addressable text display in conjunction with layout plans are not provided adjacent to the control and indicating equipment.	[	]	[	]	[	]		13.2.4b) 13.2.5	1/2009
3.2.8	Detectors are provided for horizontal ceiling void ≥800 mm high.	]	]	]	]	[	]		22.2d)	1/2009

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		Ye	es	N	o	N/	Α	Remarks	BS	CL
3.2.9	Clearance below detector is $\geq 500$ mm. (Not applicable for ceiling voids, floor voids, and area having no horizontal dimension greater than 1 m.)	[	]	[	]	[	]		22.3n)	
3.2.10	Point smoke detector is								22.9	1/2009
3.2.10	installed within ceiling height limit (general) of 10.5 m. (Note: $\leq$ 10% of ceiling height may exceed this limit and $\leq$ 12.5 m).	[	]	]	]	[	]		Table 3	
3.2.11	Heat detector is installed								22.9	1/2009
3.2.11	within ceiling height limit (general) of 9 m for Class A1 to BS EN 54-5 and 7.5 m for other Classes to BS EN 54-5. (Note: $\leq 10\%$ of ceiling height may exceed this limit and $\leq 10.5$ m).	[	]	]	]	[	]		Table 3	
3.2.12	Under flat ceiling, horizontal distance between any point and the nearest heat detector is ≤ 5.3 m.	[	]	]	]	]	]		22.3a)2)	
3 2 13	Under flat ceiling,								22.3a)	
J.2.1J	horizontal distance between any point and the nearest smoke detector is ≤ 7.5 m.	]	]	[	]	]	]		ŕ	
3.2.14	In corridors $\leq 2$ m wide, heat detectors are sited at intervals of $\leq 10.6$ m and $\leq 5.3$ m from end wall.	]	]	]	]	]	]		22.3a), Note 1	
2217	T 11 < 2 11								22.20)	
3.2.15	In corridors $\leq 2$ m wide, smoke detectors are sited at intervals of $\leq 15$ m and $\leq 7.5$ m from end wall.	]	]	]	]	[	]		22.3a), Note 1	

									Refere	ence
		Y	es	N	O	N/	Α	Remarks	BS	CL
3.2.16	In detector installation, ceiling obstructions > 10% overall ceiling height are treated as wall. (Note: Within horizontal voids, obstructions > 10% of the height between structural floor and structural ceiling are treated as wall regardless of the void location.)	]	]	[	]	[	]		22.3j), Note 8	1/2009
3.2.17	In detector installation, partitions or storage racks reaching within 300 mm of the ceiling are treated as wall.	[	]	[	]	[	]		22.3i)	
3.2.18	Detectors are mounted ≥ 1 m from any air inlet of forced ventilation system.	[	]	[	]	]	]		22.3m)	
3.2.19	Horizontal ceiling comprises:								22.3k)	
	<ul> <li>(a) a series of small cells (honeycomb ceiling), detector spacing is in accordance with Figure 10b) &amp; Table 1 of BS 5839-1;</li> <li>(b) a number of closely spaced structural beams, detector spacing is in accordance with Figure 10c) &amp; Table 2 of BS 5839-1.</li> </ul>	[	]	[	•	[	]			
3.2.20	Detector(s) is provided under intermediate horizontal surfaces such as ducts, loading platforms and storage racks in excess of 3.5 m in width and whose undersurface is in excess of 800 mm above the floor (other than when the side of the duct or structure is in excess of 800 mm from the wall or other ducts or structure).	[	]	[	]	[	]		22.30)	

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3.2.21	Other than point type smoke and heat detectors, the following detectors are according to manufacturer's standard and specification.	Y	es	N	10	N/	Ά	Remarks	BS	CL
	<ul> <li>(a) Aspirating smoke detectors</li> <li>(b) Flame detectors</li> <li>(c) Video smoke detectors</li> <li>(d) Beam detectors</li> <li>(e) Others, please specify:</li> </ul>			[	] ] ]	[	]			
3.3	Alarm Sounder									
3.3.1	Provided in areas as indicated on FSI layout plans.									
	Alarm sounder: nos.	[	]	[	]	[	]			
3.3.2	External fire alarm sounder is provided at the building entrance or the "Fire Service Access Point" and control and indicating equipment.								16.2.1f)	1/2009
	The sounder is clearly marked with the words "FIRE ALARM" (火警).	]	]	]	]	]	]			
3.3.3	One alarm sounder is provided at each hose reel point.	[	]	[	]	[	]		Cod	e
3.3.4	Each system incorporates at least two sounders and each fire compartment is provided with at least one sounder.  (Note: Meaning of fire compartment is as defined in paragraph 5 of the FRC Code.)	r	1	ſ	1	ſ	1		16.2.1i)	1/2009
	Code.)	[	J	L	J	L	]			

APPENDIX 4 Reference Yes No N/A Remarks BS CL3.4 Manual Call Point (MCP) 3.4.1 Provided in areas as indicated on FSI layout plans. MCP: ..... nos. [ ] [ ] ..... 13.2.2 1/2009 3.4.2 The zoning is at least one zone per floor. [ ] [ ] ..... 20.2c) 1/2009 3.4.3 One MCP is located: (a) at hose reel point; (b) adjacent to & within 2m from storey exit (or its entrance lobby if it leads only to the [ ] [ ] ...... storey exit); (c) adjacent to staircase final exit to open air on G/F or place of [ ] [ ] ...... ultimate safety. 20.2c) 1/2009 3.4.4 For exit opening  $\geq 12 \text{ m}$ in width, two MCPs are provided within 2 m from each end of the opening before exit (or before the entrance lobby if such lobby leads only to the [ ] [ ] ...... exit). 20.2h) 1/2009 3.4.5 MCP is fixed at a height of 0.9 to 1.2 m above finished floor level. 20.2i) 1/2009 3.4.6 MCPs are surface mounted or semi-recessed mounted as per manufacturer's [ ] [ ] ...... design. 3.5 Visual Fire Alarm (VFA) Code 3.5.1 VFA is labelled "FIRE ALARM"(火警) with height of English and Chinese wordings  $\geq 10$ mm and 15 mm respectively. Code 3.5.2 Alarm signal is in form of flashing red light. [ ] .....

		Y	es	N	o	N/	Ά	Remarks	Refere BS	ence CL
3.5.3	Flashing light of VFA is visible to normal eyesight in all areas required to be protected.	[	]	[	]	[	]		Cod	е
3.5.4	One VFA point is provided for each compartment and the distance between two VFA points $\leq 60$ m.	[	]	[	]	[	]		Cod	e
3.5.5	Areas covered by VFA are in compliance with approved building plans and Design Manual: Barrier Free Access.	[	]	[	]	[	]		Cod	e
3.5.6	Design of VFA system conforms to Code of Practice and								Cod	
	(a) NFPA 72: 2010 or (b) BS 5839-1:2002+A2:	[	]	[	]	[	]			
	2008	[	]	[	]	[	]			
3.5.7	One VFA point is located near every hose reel.	[	]	[	]	[	]			
3.5.8	The power supply of the VFA system is from:									
	<ul><li>(a) DC supply source with back-up supply by battery; or</li><li>(b) AC supply source with secondary supply from emergency generator;</li></ul>	[	]	[	]	[	]			
	or (c) AC supply source with secondary supply from the main electricity supply obtained before	[	]	[	]	[	]			
	main supply switch.	[	]	[	]	[	]			

Yes

3.6.1	Cables used for:							26.2b)	1/2009
	<ul> <li>(a) Critical signal path (panel to all field devices);</li> <li>(b) extra low voltage supply from external power supply (charger / battery) to the system;</li> <li>(c) final circuit providing low voltage mains supply to the system; and</li> <li>(d) low voltage mains</li> </ul>								
	supply to the system (mains supply to panel / charger)								
	comply with:								
	(i) MICS cable conforming to BS EN 60702-1 & 60702-2;								
	or	[	]	[	]	[	]		
	(ii) Cable conforming to BS 7629; or	[	]	[	]	[	]		
	(iii) Cable conforming to BS 7846; or	Г	1	Г	1	Г	1		
	(iv) Cable rated at 300/500 V (or greater) that provide same degree of safety to BS 7629;	L r	J	L	J	l	J		
	or (v) Fire resisting cables to other international standard accepted by	l	J	l	J	l	J		
	FSD; or (vi) Cables as per Remarks Section in Appendix 8 of FS CoP and accepted being exempted from requirement of fire		]	l	J	l	J		
	resistance;	Ĺ	]	l	]	l	J		

Except for item (vi), item (i) to (v) shall also comply with:	Y	es	N	бо	N	/A	Remarks	APPE Refer BS	NDIX 4 ence CL
(vii) "Standard" fire resisting cables with PH30 classification according to BS EN 50200 and additional 30 min. survival time to Annex E of this standard; or	ſ	1	ſ	1	Γ	1		26.2d)	1/2009
(viii) "Enhanced" fire resisting cables with PH120 classification according to BS 8434-2.	[	]	[	]	[	]		26.2e)	1/2009

Reference Yes No N/A Remarks BS 26.2b) 1/2009 3.6.2 Cables used for power supply to sounders, visual fire alarms, fire alarm devices, control modules, signalling devices, etc. comply with: (i) MICS cable conforming to BS EN 60702-1 & 60702-2; [ ] ..... (ii) Cable conforming to BS 7629; or ••••• (iii) Cable conforming to BS 7846; or ] ...... (iv) Cable rated at 300/500 V (or greater) that provide same degree of safety to BS 7629; [ ] [ ] ..... (v) Fire resisting cables to other international standard accepted by [ ] [ ] ...... FSD; or (vi) Cable conforming to BS 6387 AWX or CWZ; or [ ] ...... (vii)Cables as per Remarks Section in Appendix 8 of FS CoP and accepted being exempted from requirement of fire resistance; Except for item (vii), item (i) to (vi) shall also comply with: (viii)"Standard" fire 26.2d) 1/2009 resisting cables with PH30 classification according BS EN 50200 and additional 30 min. survival time to Annex E of this standard; or (ix) "Enhanced" fire 26.2e) 1/2009 resisting cables with PH120 classification according to BS 8434-2. 

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3.6.3	Conductors are having a	Y	es	N	О	N/	Α	Remarks	BS 26.2j)	CL
3.0.3	conductors are navning a cross-sectional area of $\geq$ 1 mm <sup>2</sup> .	[	]	[	]	[	]		37	
3.6.4	Cables and conductors are separated from cables of other services.	[	]	]	]	[	]		26.2k) 26.2l)	
3.6.5	Cables carrying power in excess of extra-low voltage are segregated from extra-low voltage fire alarm circuits.	[	]	[	]	[	]		26.2m) 26.2n)	
3.6.6	Colour of cables is limited to ≦wo sets of common colours and one of the colours is red.	[	]	[	]	[	]		26.20)	
3.7	Control and Indicating Equi	pm	<u>ent</u>							
3.7.1	The alarm annunciation panel is located near entrance or in fire control centre.	[	]	[	]	[	]			
3.7.2	Manual call point indications are given at the control and indicating panel even if addressable text information is available.	[	]	[	]	[	]			
3.7.3	Manual call point and detection zone indications are given at the control and indicating panel even if addressable text information is available, by one or a combination of the following:								23.2.2c) to e)	
	<ul><li>(a) LED indicators</li><li>(b) Visual display units</li><li>(c) Computer graphics</li><li>(d) Other suitable means</li></ul>	[ [ ]	] ] ]	[ [ [	]	[ [	]			
	(please specify)	[	]	[	]	[	]			

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		Y	es	N	lo	N	/A	Remarks	BS	CL
3.7.4	The wirings are compatible with the type of control panel as recommended by the panel manufacturer.  (2-wire system/4-wire system/twisted pair/)	[	]	[	]	[	]			
3.7.5	Operation of alarm silent facility should:								16.2.1g)	
	<ul> <li>(a) require manual operation;</li> <li>(b) not cancel any visual signal;</li> <li>(c) if a new zone goes into alarm, sound any</li> </ul>	[	]	[	]	[	]			
	fire alarm sounders belonging to that alarm zone; (d) not prevent correct operation of any	[	]	[	]	[	]			
	control; (e) not prevent transmission of alarm to alarm receiving centre.	[	]	[	]	[	]			
3.8	Power Supplies									
3.8.1	Connections to the mains supply is via an independent isolating protective device.	]	]	[	]	[	]		25.2a)	

Reference Yes No N/A Remarks BS CL25.2f) 1/2009 3.8.2 Every isolator, switch and protective device is 25.2g) situated in a position inaccessible to unauthorized persons or protected against unauthorized operation and is properly labelled as appropriate: (a) "FIRE ALARM" (火 警警報); or (b) "FIRE ALARM. DO NOT SWITCH OFF" (火警警報,切勿切斷電 源); or (c) "WARNING. THIS **SWITCH ALSO CONTROLS THE** SUPPLY TO THE FIRE ALARM SYSTEM"(警告,此電 掣同時控制火警警報系 統電源). All labels are engraved in white letter/character with a red background. The words "FIRE ALARM" (火警) with height of **English and Chinese** wordings  $\geq 10 \text{ mm}$  and 15 mm respectively. 25.2h) 3.8.3 Circuit supplying fire alarm system is not protected by a residual current device. (unless necessary to comply with CoP for the Electricity (Wiring) Regulations) [ ] [ ] ...... 25.2i) 3.8.4 The mains power supply and the standby battery are 25.3d) each capable of supplying the maximum alarm load of the system. 3.8.5 Battery power supply is provided. (Voltage: ..... DC Volts: ..... 

3.8.6	Secondary (rechargeable) battery supplies should:	Ye	es	N	б	N/	/A	Remarks	APPE Refere BS	NDIX 4 ence CL
	<ul> <li>(a) be with an automatic charger;</li> <li>(b) have a life of at least 4 years;</li> <li>(c) have date of installation labelled;</li> <li>(d) have battery charger capable of recharging the battery from fully discharged to fully</li> </ul>	[ [	]	]	]	]	]			
	charged within 24 hours; and (e) have capacity sufficient to maintain the system operation.		]	]	]	[	]			
IV. Tes	sting									
4.1	<u>Detectors</u>									
4.1.1	Upon actuation of any detector in the building, the correct audio/visual warning device is initiated.	[	]	[	]	[	]			
4.1.2	The sensitivity of all heat/smoke/flame detectors are correctly set in full accordance with the manufacturer's recommendations.	Г	1	ſ	1	Г	1			
412		L	J	L	J	L	J			
4.1.3	The zoning of detectors is correct.	[	]	[	]	[	]			
4.2	Manual Call Point, Alarm S	<u>our</u>	nder	an	d Vi	isua	ıl F	ire Alarm Installations		
4.2.1	Upon actuation of the detector, alarm is given by alarm sounder installed at the building entrance near the alarm annunciation panel.	[	]	]	]	[	]			
4.2.2	Background noise (N) likely to persist for a period longer than 30 seconds.	[	]	[	]	[	]	atdB(A)	16.2.1 a)1)	

									Refere	ence
4.2.3	For domestic building, the minimum sound level of alarm sounders is measured at 3 m from the inside of the main entrance door with all doors shut off & all windows open at all flats and the result is dB(A), which is:	Ye	es	N	O	N/	A	Remarks	BS 16.2.1 a)1)	CL
	(a) $\geq$ 60 dB(A); and (b) $\geq$ 5 dB(A) +	[	]	[	]	[	]			
4.2.4	For non-domestic building, the minimum sound level of alarm sounders is measured at 3 m from the inside of the main entrance door with all doors shut off & all windows open at all flats and the result is								16.2.1 a)1)	
	(a) $\geq$ 65 dB(A); and (b) $\geq$ 5 dB(A) +	[	]	[	]	[	]			
4.2.5	The sound level measured right below the sounder base(s) of smoke detector and 1 m above floor level with all the guestroom/bedroom windows fully opened and doors closed is $\geq$ 65dB(A) or > 5dB(A)									1/2009 2/2009
	above background noise.	[	]	[	]	[	]			
4.2.6	The zoning of manual call points is correct.	[	]	[	]	[	]		12.2.2j), Note 5	1/2009
4.2.7	Upon actuation of any manual call point in the building, the fixed fire pump serving the corresponding block comes into operation regardless of the zoning of the manual call point.	]	]	]	]	[	]		Cod	le

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4.2.8	Upon actuation of any manual call point in the building, the correct audio/visual warning device for the fire alarm and detection system is initiated.	Y6	es ]	[	[o	N/	'A ]	Remarks	BS	CL
4.2.9	The delay between operation of a manual call point and the giving of an "evacuate" signal in the alarm zone does not exceed 3 seconds.	]	]	[	]	[	]		20.2b)	
4.2.10	All VFA flashing light is visible to normal eyesight in the required protected areas when the fire alarm system is actuated.	]	]	]	]	[	]		Cod	le
4.2.11	VFA signal is clearly distinguishable from any other non-fire services visual signals.	[	]	[	]	[	]			
4.3 4.3.1	Power Supplies  For occupied premises, the standby battery is sufficient to maintain the system in operation for at least 24 hours, plus at least 30 min. for an "evacuate" signal in all alarm zones.	[	]	[	]	[	]		25.4e)1)	
4.3.2	For unoccupied premises, the standby battery is sufficient to maintain the system in operation for at least 24 hours longer than maximum period likely to be unoccupied or for 72 hours in total, whichever is the less, after which to operate all fire alarm devices for at least 30 min.	ſ	1	]	1	1	1		25.4.e)4)	
	The state of the s	L	,	L	,		ı			

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		Y	es	N	O	N/	'A	Remarks	BS	CL	1
4.3.3	In building with standby								25.4e)1)		
	generator that serves fire alarm system, capacity is								25.4e)2)		
	sufficient to maintain the										
	system in operation for at										
	least six hours, plus at										
	least 30 min. for an										
	"evacuate" signal in all										
	alarm zones.	[	J	Į	]	L	J				
4.3.4	The normal or standby								25.3c)		-
1.3.1	supply is indicated by a										
	green indicator at main										
	indicating equipment.	[	]	[	]	[	]				
125	T 1 C4 1 1										-
4.3.5	Each of the normal supply and the standby supply is										
	capable of supplying the										
	largest load under normal,										
	fire and fault conditions.	[	]	[	]	[	]				
4.4	Control and Indicating Equi	nm	ent								]
	Control and maleating Equi	piii	CIIC								
4.4.1	Alarm is given from the										
	alarm sounder installed at										
	building external upon fire detection.	[	1	Г	1	Г	1				
	detection.	L	J	L	1	L	J				
4.4.2	Direct telephone link										
	(DTL) to service										
	provider's Computerized Fire Alarm Transmission										
	System (CFATS) is										
	connected.										
	(Please state DTL no.:										
	)	[	]	[	]	[	]				
4.4.3	Other panel function										-
4.4.3	works properly:										
	(a) alarm silence/reset.	[	]	[	]	[	]				
	(b) battery supply on. (if	г	1	г	1	г	1				
	<ul><li>applicable)</li><li>(c) power on/failure</li></ul>	Ĺ	]	L	]	L	J				
	indicator.	[	]	[	]	[	]				
	(d) direct link failure	-	-	-	-	-	-				
	indicator. (if	-		_		_					
	applicable)	[	]	Ĺ	]	Į	]				
	(e) zone alarm/fault indicator.	Γ	1	Γ	1	Г	1				
		L	1	L	1	L	1				

		<b>3</b> 7	es	N	r <sub>-</sub>	N/		Remarks	APPE Refere BS	NDIX 4 ence CL
4.4.4	Detector solely using as actuating devices for fire service systems such as fire shutter, VAC control, fixed installations other than water, fixed installation using water, pressurization system, and smoke extraction systems are linked to the Computerized Fire Alarm Transmission System (CFATS) via DTL. (Remark: This linking is not mandatory.)	[	]	[	]	[	]	Remarks	ВЗ	CL
4.4.5	For addressable type alarm annunciation panel, a facility/provision is provided so that individual detector can be tested without either sounding an alarm or requiring the complete system to be disabled to prevent such an alarm.	[	]	]	]	[	]			

v. Documentation	V.	<b>Documentation</b>
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Reference Yes No N/A Remarks BS CLThe following equipment 5.1 list and catalogues are provided (where applicable): (a) alarm annunciation panel; ..... (b) repeater panels; ..... (c) detectors; ..... (d) manual call points; ..... (e) alarm sounders; ..... (f) visual fire alarm: ..... (g) fire resisting cables. ..... 1/2007 5.2 FSD approval/listing by product certification bodies are provided for the following equipment: (a) alarm annunciation panel; ..... (b) repeater panels; ] ..... (c) detectors; ] ..... (d) manual call points; ] ..... (e) alarm sounders; ..... (f) visual fire alarm with sounder. ] ..... 5.3 Testing certificates are provided for the fire resistant cables. 5.4 Sound level measurement (including background noise) report for alarm sounders is provided. 5.5 Calculation showing the required battery capacity is ] [ ] ...... provided. 5.6 Letter certifying the completion of the DTL to the FSCC/authorized service provider is provided. [ ] [ ] ..... Confirmation or 5.7 certification from panel manufacturer on the compatibility between the fire alarm control panel(s) [ ] [ ] ..... and detectors is provided.

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5.8	As-fitted fire service installation drawings including the following are provided:	Yes	No	N/A	Remarks	BS	CL
	<ul><li>(a) schematic diagrams of the fire alarm and detection system;</li><li>(b) floor layout plans showing the location of detectors, devices, alarm annunciation</li></ul>	[ ]	[ ]	[ ]			
	panel and repeater panel(s) as applicable.	[ ]	[ ]	[ ]			
Test co	onducted by:						
		. (Si	gnature	e)			
Name o	of FSI Contractor's Represent	 tative (i	n blocl	k letter	s)		
	ny Chop						
	of FSI Contractor (FSI Contra		/ egistrat	) ion Nu	umber)		
Date							