Fire safety and fire protection survey and risk assessment - Existing site

Part 1 - Incidence of fire

. s			41			4	sluce pro-
Low Risk		0	1	2	3	4	5 High Risk
1.1. Arson / deli	berate fi	re (in the la	st 10 vear	rs)			
No cases of arson / deliberate fire within school grounds	© 0	[] 1	C 2	3	C 4	C 5	Arson / deliberate fire common within school grounds
1.2. Vandalism	(in the la	et 5 voare)					
1.2. Validalisiii	(III LIIE IA	ist o years)					
No cases of vandalism within school grounds	© 0	C 1	© 2	 3	G 4	[] 5	Vandalism common within school grounds
1.3. History of fi	ires						
No major fires in the school in the last 10 years	© 0	🖸 1	_ E 2	_ _ _3	C 4	5	One or more major fires in last 10 years
1.4. Incidence	of are	on in the l	ocality				
1.4. Incidence	or ars	on in the it	ocanty				
Locality has low arson rate (as reported to police)	© 0	🖸 1	2	_ _ _3	© 4	 5	Locality has high arson rate (as reported to police)
1.5. Fires in o	ther scl	hools in th	e locality	(in the la	ast 5 year	s)	
Few cases of fire in other schools in the	© 0	[] 1	C 2	© 3	C 4	[5	Frequent cases of fire in
locality			<u> </u>		<u> </u>		locality

Part 2 - E	nviror	nment a	nd bui	ldings			
Low Risk		0	1	2	3	4	5 High Risk
2.1. Security	measur	es - buildiı	ngs				
Good security measures provided for school building		🔁 1	2	_ 🖸 3	2	□ 5	Few security measures
2.2. Security	measur	es – schoo	l around	5			
Good security measures provided for school grounds	© 0		2		4	[] 5	No security measures
2.3. Opportun	nties fo	r arson					
Few opportunities for arson	© 0	© 1	2	~ 3	~ 4	 5	Many opportunities for arson
2.4. Buildings	state						
Buildings well maintained with no damaged safety systems (e.g. fire doors)	© 0	[] 1	□ 2	□ 3	C 4	[] 5	Buildings in disrepair and vandalised
2.5. Building	height						
Single storey)	© 0	🖫 1	_ E 2	_ © 3	□4	5	High-rise
2.C. D.:!!dia		- ! !					
2.6. Building	constru	ction					
	.	.				2003 -	
Traditional	O	_ 🖸 1	_ 2	© 3		5	Lightweight

2.7. Building	design a	nd routes	for fire s	pread			
Few	© 0	© 1	C 2	3	□ 4	□ 5	Many
1 CW							riurry
			>				
2.8. Building	size (tot	ai fioor ai	ea)				1
Small building	© 0	_ _© 1	2	_ _ _3		5	Very large building
2.9. Building	distribut	ion (sepa	ration)				
Distributed buildings	© 0	_ C 1	_ © 2	_ _ _3	_ _ 4	5	Single building
2.10. Risk of	fire from	school a	ctivity				
Low	© 0	1	_ © 2	3	~ 4	5	High
2.11. Out-of-l	hours us	e of schoo	ol facilitie	s (by the	public)		
None or low out-of-hours use	© 0	🖸 1	2	_© 3	_ _ 4	□ 5	Frequent out- of-hours use
2.12. Building	users a	t risk					
		p=1.4			.	po c	
Low	0	1	2	3	<u> </u>	5	High

adequate fire compartmenta lisation and fire/smoke barriers and doors 3.2. Design relaxations of passive measures (for education reasons) None 0 1 2 3 4 5 arriers and doors Atrium or open-plan areas 3.3. Fire detection and warning system Automated and linked to central control room 2 1 2 3 4 5 barriers and detection and warning system 3.4. Means of escape (and emergency lighting and signage) Many exits, short escape routes 3.5. Occupancy density Few people, in Few people, in Few people, in single	Part 3 Fire safety and fire protection measures									
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Large numbers in single	Many exits, short escape						-	Few exits, long escape routes		
Large numbers in single										
numbers in single	3.5. Occupan	cy densi	ity							
	Few people, in small groups	0	©_1	_ _ _2	_ 3		~ 5	numbers in a		
3.6. Training and drills	3.6. Training	and dril	ls							
Good training of staff, frequent drills © 0	of staff,	© 0	E 1	Г .2	1 7.3	[] 4	~ 5	No training,		

Part 4 Consequences/ impact of fire (Weight = 4) Low Risk 0 1 2 3 4 5 High Risk 1.1. Impact of fire on users (injury) Low C 0 C 1 2 3 4 5 High Risk 1.2. Impact of fire on learning	3.7. Managen	nent (of	fire safety	7 /				Ī
3.8. Fire Service notification Automatic	Cond	6 0	[] 1	7 2	7 3	F 4	1 7.5	Descri
Automatic C 0 C 1 C 2 C 3 C 4 C 5 None S.9. Fire Service location Acry close C 0 C 1 C 2 C 3 C 4 C 5 Very distant Part 4 Consequences/ impact of fire (weight = 4) Low Risk O 1 2 3 4 5 High Risk S.1. Impact of fire on users (injury) D C 0 C 1 C 2 C 3 C 4 C 5 High (risk of death) S.2. Impact of fire on learning D C C 1 C 2 C 3 C 4 C 5 High S.3. Impact on community	Good	L		_64				Poor
Automatic C 0 C 1 C 2 C 3 C 4 C 5 None S.9. Fire Service location Acry close C 0 C 1 C 2 C 3 C 4 C 5 Very distant Part 4 Consequences/ impact of fire (weight = 4) Low Risk O 1 2 3 4 5 High Risk S.1. Impact of fire on users (injury) D C 0 C 1 C 2 C 3 C 4 C 5 High (risk of death) S.2. Impact of fire on learning D C C 1 C 2 C 3 C 4 C 5 High S.3. Impact on community								
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	Part 4 Co Low Risk 4.1. Impact o Low Low	f fire on	users (ing	/ impac	3	e (Weig	5	5 High Risk High (risk of death)

4.4. Potentia	COSC						
Low	 0	1	_ 2	3	a 4	5	High
4.5. Environ	mental in	npact					
4.5. Environr	mental in	npact					
4.5. Environ	mental in	npact					
4.5. Environ	mental in	npact					
4.5. Environ			₽ ≂¶ 0	F-3 2	F-7 4	7-5	
4.5. Environ	mental in		2	3		5	High

SCORE

Part 1	Incidence of arson (fire)	9	
Part 2	Environment and buildings	18	27
Part 3	Fire safety or fire protection measures	5	
Part 4	Consequences of a fire	24	29
	TOTAL	56	

Scoring

	d overall ring	Proposed Parts 1	d scoring I and 2	Proposed scoring Parts 3 and 4		
Low risk	0 – 40	Low risk	0 – 20	Low risk	0 – 20	
Average		Average	21 – 60	Average	21 – 50	
		risk		risk		
High risk	101 – 230	High risk	61 – 85	High risk	51 – 145	

Overall score

Low risk

The fire safety and fire protection survey and risk assessment indicates your school is at a low level of risk. Sprinklers may be beneficial.

Average risk

The fire safety and fire protection survey and risk assessment indicates your school is at an average level of risk. A sprinkler system is recommended.

High Risk

The fire safety and fire protection survey and risk assessment indicates your school is at a high level of risk. Sprinklers should be provided.

The tables below list the type of fire safety and fire protection measures that might be appropriate for your school.

Fire safety or fire protection measures for consideration to reduce risk of fire (Parts 1 and 2)

Low risk

The fire safety and fire protection survey and risk assessment indicates your school is at a low level of risk with regard to the incidence of fire and environment and buildings.

Sprinklers may be beneficial. You may also wish to consider:

- · Improved building security measures
- Improved site security measures
- · Better building and equipment maintenance
- · Further control of activities likely to cause a fire

Average risk

The fire safety and fire protection survey and risk assessment indicates your school is at an average level of risk with regard to the incidence of fire and environment and buildings.

A sprinkler system is recommended. You may also wish to consider:

- · Improved building security measures
- · Improved site security measures
- · Better building and equipment maintenance
- · Improved control of activities likely to cause a fire
- · Improved procedures to ensure that buildings are cleared of materials that can be used for arson

(Note: a sprinkler system may act as a deterrent to arsonists, but primarily acts to prevent a small fire growing)

The fire safety and fire protection survey and risk assessment indicates your school is at a high level

High Risk

The fire safety and fire protection survey and risk assessment indicates your school is at a high level of risk with regard to the incidence of fire and environment and buildings.

Sprinklers should be provided. You may also wish to consider:

- · More building security measures
- · More site security measures
- · Security measures include;
- · good window locks,
- intruder detection
- CCTV
- Security staff / guards
- good perimeter fencing
- · Car parks well lit and overlooked etc
- Doors secure against all but the most determined intruders
- · Windows and roof-lights protected against intruders etc
- · Better building and equipment maintenance
- · Control of activities likely to cause a fire
- Buildings cleared of materials that can be used for arson

(Note: a sprinkler system may act as a deterrent to arsonists, but primarily acts to prevent a small fire growing)

Fire safety or fire protection measures for consideration to reduce risk of injury, damage, and consequences (if a fire does occur) (Part 3 and 4)

Low risk

The fire safety and fire protection survey and risk assessment indicates your school is at a low level of risk with regard to the risk of injury, damage, and consequences (if a fire does occur).

Sprinklers may be beneficial. You may also wish to consider:

- · An improved automatic fire detection and alarm system
- Improved procedures to ensure doors are shut at night
- · Secure storage (fire cupboards) for documents and coursework
- · Better communications with local fire brigade
- Contingency plans, for example for use of alternative buildings
- · Better planning, training and more frequent drills

Average risk

The fire safety and fire protection survey and risk assessment indicates your school is at an average level of risk with regard to the risk of injury, damage, and consequences (if a fire does occur).

A sprinkler system is recommended. You may also wish to consider:

- An improved automatic fire detection and alarm system
- Additional fire compartmentalization
- · Procedures to ensure doors are shut at night
- Secure storage (fire cupboards) for documents and coursework
- · Better communications with local fire brigade
- Contingency plans put in place for use of alternative buildings
- · Better planning, training and more frequent drills

High Risk

The fire safety and fire protection survey and risk assessment indicates your school is at a high level of risk with regard to the risk of injury, damage, and consequences (if a fire does occur).

Sprinklers should be provided. You should also consider:

- An automatic fire detection and alarm system
- Additional fire compartmentalization
- Procedures to ensure doors are shut at night
- · Secure storage (fire cupboards) for documents and coursework
- · Better communications with local fire brigade
- · Contingency plans put in place for use of alternative buildings
- · Better planning, training and more frequent drills
- · Controls on the number of people using the building

For more information on types of fire safety and fire protection measures refer to BB100: "Designing against the risk of fire in schools"