TMO10043122/

Project Fire Risk Assessment

Project	Grenfell Tower	Project no	3482
Initial document completed by	sc/soc	Date of assessment	February 2015

Guidance Note:

When completing this document reference should be made to the Rydon Fire Procedure

Definitions:

Temporary Accommodation(s)

Are areas that are segregated within the building under construction or undergoing refurbishment that may be used as site offices, stores, workshops etc during the course of the works. Part of the structure of the temporary accommodation may be formed by the structure of the building under construction.

Temporary Building(s)

Temporary structures for use on construction sites including pre-fabricated cabins, site huts, cargo containers, caravans, tool stores etc. The structure of the temporary building is independent from the structure of the building under construction. A temporary building may be positioned inside or outside the building under construction

People affected / at risk of being harmed: (circle or highlight in bold those at risk at the stage of the project if not pre start risk assessment)

Site operatives, visitors to the project, existing client staff, persons residing nearby, night workers, contractors, workers in remote areas or lone workers, public in released areas of site.

Number of Persons likely to be on site for the period of this assessment: up to 50 (currently 17) + FM company (approx. 2) + Existing tenants (approx.500)

Overall fire risk on the project: at present - Lower \square Normal \bowtie Higher \square

Risk Level: Following this assessment - See Action Plan Part E

The level of risk is now deemed to be: (Acceptable/, further control measures required) Please state:

Client systems are not functioning, there is no means to raise the alarm to residents, the AOV is not operational. The system requires a concierge in place to make the system. Client to provide updated FRA and Fire Plan.

Responsible person named for the project (Contract Manager or Project Manager)								
Print Name Simon O'Connor	Signature	Date 20/02/15						
Di la constanti di Contra	Annual de la contract Sino Consultant							
Risk assessor Contract Manager or Project Manager or SHE	Manager or independent Fire Consultant)							
Print Name Simon Camps	Signature	Date 20/02/15						
- The state of the								
Reviewed by								
responsible								
person								
(initial)								
Date reviewed								

A. Sections to be included (tick only the sections that will be included in this report – e.g. section 14 is unlikely to be required in the early weeks of a new build project)

Section		Tick
1	Project management	V
2	Sources of Ignition	V
3	Sources of fuel & oxygen	V
4	Rapid fire & smoke spread	V
5	Fire spread to adjacent properties	V
6	Fire Spread to / from temporary site buildings	V
7	Persons unaware of fire	V
8	Persons cannot evacuate safely	_

Section		Tick
9	Persons not being accounted for	V
10	Small fire grows rapidly	V
11	Fire Service Unaware of fire	V
12	Fire Service unaware of risks	☑
13	Fire Service cannot gain access	V
14	Building / fire fighting facilities	⊽
15		☑
16		

Please provide details below and include any specific areas that may affect the fire risk

Issue	Detailed	Information					
Proximity of other Buildings to site:	Existing c	car park and low rise 15m away.					
Area covered by this assessment:	Footprint	of the project					
Number of building(s) or accommodation:	Grenfell	Tower, site accommodation units					
Size of building or accommodation:	20						
Number of floors:	20 + bas	sement					
Number of internal stairways (please indicate if these are 'protected'):	1 – prote	ected.					
Number of external stairways (including scaffold etc):	Two (1 Ha	akki staircase leading to Walkway +1 and 1 leading from office to ground level)					
Location of Hydrant or Water supply:	Middle o	Middle of Grenfell Road adjacent to the site entrance.					
Type of Work / Nature of the Site (please tick ALL that apply)	S	Scope of works and brief project description					
Partially / fully occupied Building		The installation of a new communal heating system to all properties, Overcladding the whole building with a					
Temporary Accommodation (external)		rainscreen cladding system including windows, remodelling of the bottom 4 floors to create 9 new flats a poxing gym, community rooms and a nursery.					
Temporary Accommodation (internal)		Source gynn, community rooms and a naisery.					
Refurbishment Project	~						
Construction site with traditional timber frame							
Healthcare							
New Build Construction Site							
Other – State Here -							

Maintenance projects – both planned and reactive should utilise rather than this form.

Please provide details below and include any specific areas that may affect the fire risk

Sources of ignition ide	ntified (S	Section 2 of the fire risk assess	ment)						
Naked flames		Electrical sparks	V	Machinery / Mechanical equipment	V	Hot works	П	Temporary electrical system	V
Hot Surfaces		Engines	V	Electrical tools	✓	Electrical heaters	굣	Central and water heating devices	V
Mechanical sparks		Cooking	V	Lighting	V	Chemical reaction			П
Smokers materials	V	Internal sparks	П	Arson	V	Spontaneous ignition/ self heating	П		
Sources of fuel identifi	ed (Secti	ion 3 of the fire risk assessmer	nt)						
Flammable liquids				Flammable solids				Flammable gases	
Paints		Diesel	V	Wood	V	Packaging	✓	Butane	П
Thinners	П	Petrol		Paper	V	Stored Wheeled Bins	V	Propane	П
White spirits	П	Chemicals (COSHH)	П	Plastics	V	Scaffold sheeting	П	Acetylene	П
Paraffin		Aerosols	V	Rubber		Protective coverings	П	Hydrogen	П
Toluene			П	Textiles (Furniture)	V		П	Natural gas	П
Acetone			П	Building materials					
Methylated spirits			П	Waste materials	V				
sources of oxygen iden	ntified (S	Section 3 of the fire risk assess	ment)		·				
Oxidisers	П	Oxygen cylinder storage		Piped systems	П	Air conditioning units	П	Natural air	V

If Yes See Part E

Ref No.	Hazard	Existing control measures in place (italics identifies those <u>not</u> adequately controlled/not in place)	W	sk cated ith cont	rols	Ac	rther tion
		NB – None is acceptable for pre-construction assessments	High	Med	Low	Yes	No
1	Project management						
1.1	Lack of formal identification of the responsible person	Person identified within induction and within the fire plan and construction phase plan.			~		
1.2	Lack of trained fire safety wardens						
1.3	Fire plan not communicated to site team	Fire plan provided to site team members.			~		
1.4	Fire plan not communicated to persons that report to site.	Emergency details within site inductions			~		
1.5	Infrequent monitoring of the workplace	Weekly recorded checks to be made in line with procedure			~		
1.6	Failure to record fire safety checks with fire safety log book	Log book provided for check records	П	П			
1.7	Failure to test the fire emergency procedures	Fire drills held every 6 weeks			Y		
2	Sources of Ignition allowing fire to start						
2.1	Temporary Electrical installation	Electrical installation undertaken by trained and competent persons. The installation conforms to BS 7671: 2008 requirements for electrical installations A 3 monthly inspection and test must be undertaken to ensure adequacy and effectiveness.			V		
2.2	Heaters	Heaters provided are electrical and wall mounted with 'do not cover' signage.		~			
2.3	Arson	Site is within an estate with high crime – hoarding surrounds the site.		~			
2.4	Smokers Materials	Smoking area established at far corner of the yard area – fire point in place, sand bucket in place.		~			
2.5	Portable Electrical Equipment	Contractor's electrical tools have current PAT certification. To be checked by Rydon site team.			~		
2.6	Heat source: cooking equipment, microwaves	Microwave within the canteen – PAT tested, sited to allow vents to act.	П	П	~		
2.7	Obstruction of equipment ventilation						

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Ref No.	Hazard	Existing control measures in place (italics identifies those <u>not</u> adequately controlled/not in place) NB – None is acceptable for pre-construction assessments	E. 100	sk categ ith cont Med	200	ther tion No	
3	Sources of fuel & oxygen that may assist fire growth						
3.1	Accumulation of Clothing in drying room, and offices	This area is to be monitored to prevent excessive build up.			•		
3.2	Accumulation of Waste Materials/ packaging, food stuffs etc.	The bins will need to be monitored to prevent excessive waste build up.					П
3.3	Left over News Papers in drying room	The bins will need to be monitored to prevent excessive waste build up. En sure skips are changed frequently to ensure packaging etc can be removed.		~			
3.4	Furniture plastic chairs and material covered chairs	Stocks are kept to a minimum and will be disposed if broken.			~		
3.5	Stored Aerosols	There is a small amount of aerosols Spray line marker etc. To be kept in a metal container.			~		
4	Rapid fire & smoke spread through building						
4.1	Natural ventilation	Common areas within the building do not have natural ventilation.			~		
4.2	Conduction, convection & radiation	The occupied units within the tower are rated to 1 hour fire protection. Existing fire stopping is in place. Where new penetrations are opened they have fire stopping installed by the end of the shift. Where permanent fire stopping is missing Rydon to inform the client immediately.		•			
5	Fire spread to adjacent properties						
5.1	Adjacent properties	Natural fire breaks due to the layout of the area. Fire unlikely to spread to adjacent buildings.			~		
5.2	Construction project	Hot works minimised on site – only grinding and cutting under the permit system – this is within the boxing club area (low risk) and during demo. Fire watchers form part of the procedure.		~			
5.3	Occupied Premises	The occupied units within the tower are rated to 1 hour fire protection. Existing fire stopping is in place. Where new penetrations are opened they have fire stopping installed by the end of the shift. Where permanent fire stopping is missing Rydon to inform the client immediately.		~			
5.4							
6	Fire spread to/from temporary site buildings				1		
6.1	Fire rating of temporary buildings not sufficient	Temporary buildings have 1 hour fire protection and are sited away from the main building.	П	П	V	П	П
6.2			П				

Ref No.	Hazard	Existing control measures in place Hazard (italics identifies those <u>not</u> adequately controlled/not in place) NB – None is acceptable for pre-construction assessments	Risk category With controls High Med Lo				irther ction No
7	Persons unaware of fire (warning systems)						
7.1	Persons residing in office & welfare areas	Fire alarm system at fire points on site, in the welfare area and store area.			~		
7.2	Persons located on upper floors	The fire brigade and client have a 'stay put' policy for residents. However there is no system in place for the building. Client and fire brigade have been informed.	7				
7.3	Persons in adjacent buildings	N/A					
7.4	Operatives working in mast climbers	Operatives working in mast climbers have specific procedures outline in RAMs for action in the event of fire.		~			
8	Persons cannot escape safely in the event of fire (means of escape)						
8.1	Persons located in basement locations	Existing fire escape route not impeded.					
8.2	Persons in the upper floors	Operatives to use the protected fire escape route. Residents to stay put.		~			
8.3	Insufficient means of escape	There are multiple exits from the construction areas.					П
8.4	Operatives working in mast climbers	Operatives working in mast climbers have specific procedures outline in RAMs for action in the event of fire.		~			
9	Persons cannot be accounted for						
9.1	Person on site unaware of emergency procedures	Covered within site inductions inductions / practiced during drills.			•		
9.2	Visitors to site unaware of emergency procedures	Covered within visitors inductions			•		
9.3	Site operatives, unaware of emergency procedures	Covered within site inductions / practiced during drills.			V		
9.4	Inadequate signing in and out process	Biometric system in place. Print facility not yet in place. Signing in book in place until rectified.		~		~	
9.5							

Ref No.	Hazard	NB – None is acceptable for pre-construction assessments		Risk category With controls		 rther tion No
10	Small fire grows rapidly (fire fighting systems)					
10.1	Persons not trained in fire safety					
10.2	Inadequate fire fighting media	Fire points placed at each work area no more than 30m apart		~		
10.3	Damaged/ vandalised fire fighting media or faulty fire panel	Weekly checks undertaken by Rydon named person. Damaged or missing items replaced immediately, Stock held on site.			~	
10.4						
11	Fire service unaware of Fire					
11.1	Fire occurring out of hours	The building is occupied 24 hours per day.			~	
11.2						
11.3						
12	Fire service unaware of site hazards / risks(lack of information)					
12.1	Flammable liquids stored within or adjacent to the accommodation units	Flammable liquids not stored on site – removed daily.			V	
12.2	No persons on site when fire breaks out	Site is occupied by residents		~		
12.3						
13	Fire service cannot gain access			·		
13.1	Site entrance door locked	Fire brigade have a key to the gate. Monthly liaison on-going.	П		~	
			П			

							ther	
Ref No.	Hazard	(italics identifies those <u>not</u> adequately controlled/not in place) W			Risk category With controls High Med Low			
14	Building fire fighting facilities							
14.1	Lack of fire fighting equipment	Existing building fire fighting equipment in place.			~			
14.2	Person not trained in its use	Stay put policy means this is not an issue.		~				
14.3	Persons not informed or nominated to monitor / inspect fire fighting equipment	Weekly checks of Rydon equipment in place.	П	П	V			
14.4								

15	Existing fire fighting facilities (occupied buildings)			 74		
15.1	Client FRA insufficient / not provided / not reliable	The detection and alarm systems and the AOV do not work. Fire brigade and client aware.	~		Y	
15.2	Client Fire Plan insufficient / not provided / not reliable	The detection and alarm systems and the AOV do not work. Fire brigade and client aware.	~		Y	
15.3	Existing building not adequately fire stopped	Appears to be in place.		~		
15.4	Existing building systems not serviceable	e.g. AOV / Fire Extinguishers / alarm panels etc – Not serviceable. Fire brigade and client aware.	Y		Y	
15.5	Temporary voids will be created	temporary fire stopping is undertaken before the end of each shift.		~		
15.6						
15.7						

Action Plan – taken from 'Further Action' tick box.

Para no	Priority rating (H M L)	Action/s required to reduce risk	Action/s taken	Date	Name	Revised risk category (H M L)
9.4	М	Fix biometric system to allow print off for roll call.				
15.1 to 15.4	Н	Existing systems to be repaired and the system checked and implemented. On-going liaison with the fire brigade. Request updated FRA and Fire plan from client taking into consideration current circumstances.				
