FIRE RISK ASSESSMENT

Regulatory Reform (Fire Safety) Order 2005

DATE: 16 th December 2013	Belgrave Road, Bulwell, Nottingham,			
	RECOMMENDED CONTROL MEASURES	PUT 'X' IF A PROBLEM	RECOMMENDED ACTIONS AND COMMENTS	Degree Of Risk
SOURCES OF IGNITION (Che	eck, inspect and control)			
1. Any portable heaters?	Replace naked flame and radiant heaters with convector heaters or central heating system.			
	b) Use to manufacturer's recommendations.			
	c) Keep away from sources of combustion.			
	d) Do not leave switched on overnight or in unoccupied areas.			
2. Any electrical equipment (portable and fixed installation)?	e) Portable electrical equipment should be tested at least annually (or at other intervals in the light of experience.) Check test stickers on appliances for date of last Portable Appliance Tests (PAT tests).	X	Two heavy duty batteries were located in the oil store. These should be removed immediately.	High
	f) Ensure fixed installation is inspected at intervals specified in BS 7671:2008(Including 2011 Amendment) e.g. leisure complexes annually, offices every 5 years.			
	g) Ensure that socket outlets are not overloaded. (Check			

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Electrical equipment -	electrical equipment to ensure load on the socket outlet does not exceed 13 Amps.)			
continued.	h) Remove multi-plug adapters (adapter blocks that fit directly into the socket outlet) and use a multi-gang extension sockets (multi-extension plugs).			
	i) Ensure batteries are stored in the battery room.			
4. What are the smoking arrangements?	 j) Demarcate safe smoking areas for staff and service users. Ensure prohibition on smoking in other locations. 			
	k) Provide receptacles for cigarette ends and other smoking materials. (Separate from other litter bins/receptacles.)			
 Any heat generating processes such as incineration, cooking, 	Ensure equipment is used in accordance with manufacturer's recommendations and properly maintained.			
welding, etc.?	m) Ensure suitable extraction is in place and equipment is maintained in accordance with manufacturer's instructions. (Filter cleaning/replacement, etc.)			
	n) Ensure ducts and flues are regularly maintained/cleaned.			
	o) Ensure suitable fire fighting equipment available nearby.			
	p) Ensure use of hot work 'permits to work' by contractors.			
COMBUSTIBLE MATERIALS	(Remove, reduce and control)			
6. Any build up of	a) Ensure good general housekeeping.	X	Items of personal clothing	High
combustible materials? (E.g. paper, cardboard or wood.)	 Arrangements for disposal of waste should be adequate to prevent a build-up. Provide secure storage away from main building. (See section 8.) 		were found on top of the boiler in the changing room. This practice should	
or wood.)	c) Prevent unauthorised access to combustible materials.		cease immediately.	
	d) Ensure plant rooms (e.g. electrical switch rooms, boiler rooms, etc.) are clear of combustible materials.			
7. Any flammable or	a) Avoid use of flammable materials and substances, or	X	Liquid storage drums are	High

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highly flammable materials or substances on site? E.g. some solvents, paints, glue and aerosols.	 reduce levels to the minimum required for the undertaking. b) Replace substances with less flammable substances. c) Ensure flammable substances are handled, transported, stored and used properly. (Has a risk assessment been carried out? Has information/training been provided?) d) Store highly flammable substances in fire resisting stores or cabinets and away from ignition sources. Do not store in plant rooms (e.g. electrical switch rooms, boiler rooms). 		not adequately sealed with drain breather plugs removed allowing the products to vaporise into the atmosphere. This could create an explosive atmosphere. There was evidence of oil spillage from the waste oil storage tank that had been partially cleaned. All spills especially from flammable products should be totally cleared away.	
8. Is any rubbish stored externally (e.g. waste skips, bins, etc.)	 e) Wherever possible: Waste skips should kept locked wherever possible and stored 10 metres from buildings and plant. Metal wheel bins at least 6 metres. Plastic wheel bins at least 10 metres. f) Chain or secure wheeled containers away from buildings. Consider secure storage for other waste containers, particularly where there is a risk of arson. g) Do not store loose combustible waste within 2 metres of site perimeter, or 6 metres of buildings. 		The quantity of tyres stored has been reduced considerably.	

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SOURCES OF OXYGEN (Red	ce)				
Can steps be taken to reduce the potential sources of oxygen to a	for ventila	windows, doors and other openings not required ation and safe operation of equipment (e.g. gas ipment) particularly out of working hours.			
fire?	or flamma	ore oxidising materials near to any heat source able materials. (Check COSHH assessments oduct data to identify oxidising materials.)			
	•	ne use and storage of oxygen cylinders (secure torage, etc.)			
STRUCTURAL FEATURES (C	ntrol fire spi	read)			
10. Any combustible materials covering substantial wall/ceiling areas?	E.g. large	or treat wall/ceiling linings that present a risk. e areas of chipboard or hardboard walls or also synthetic wall or ceiling coverings such as ne tiles.			
11. Is there clear access to electrical equipment?	unrestric	lant rooms are free of obstructions, allowing ted access to equipment (fuse boxes, switchgear) enance and emergency situations.			
		of materials near to electrical switchgear (fuse witchgear, etc.) should be avoided.			
12. Does the building contain suspended ceilings?	escape re partitions main stru	th suspended ceilings must be separated from outes (corridors, stairways) with fire resisting s. Fire-resisting partitions must continue to the acture of the building (i.e. no gap in the ceiling bugh which fire could spread).			
	detection and on the	is (e.g. electric cables) are present in the void, fire a equipment will normally be required in the void ne suspended ceiling. Fire detection in both ay also be required where there is a deep ceiling			

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13. Structure and installations help prevent fire spread?	f) Has work taken place which may have made holes in walls or damaged any fire resistant wall/ceiling linings? E.g. new doors, glazed screens.			
14. Is there a risk of arson?	g) Do security systems minimise risk of unauthorised access (reducing potential for arson)?			
FIRE DETECTION AND WAR	IING (Alerting building occupants)			
15. Any smoke/heat detectors?	a) Consider installation in 'high risk' areas and unoccupied areas e.g. basements, boiler houses.		The existing fire alarm has been upgraded to include	
	 Ensure a competent engineer carries out back-up power supply checks at least every three months. Check for record in fire logbook. 		automatic detection for escape routes within the office block and to cover	
	c) Ensure competent engineer services detectors at least annually. Check for record in fire logbook.		the workshop units. Manual call points are provided in all occupied buildings.	
			The alarm system was upgraded in February 2013 ADT.	
16. Any fire call points (break glass)?	d) Occupier to ensure operation of a different call point (or detector) weekly (different zone each week). Ensure record of test made in fire logbook.		See item 15.	
	e) Ensure a competent engineer services call points at least annually. Check for record in fire logbook.			

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17. Are bells/sounders used to give warning	f)	Consider the use of an automatic fire warning system where other methods of raising the alarm are used.		See item 15.	
of fire?	g)	In noisy areas (where audible signals may not be heard) alternative types of alarm may be necessary. E.g. visual alarms, vibrating systems.			
	h)	It must be ensured that people with impaired hearing can perceive an audible alarm system, or can be alerted by other people. Technical advice on other alarm systems (visual, vibrating, etc.)			
	i)	Test fire warning system weekly at a set time. Is it clearly audible under normal working conditions? Check for record of test in fire logbook.			
	j)	Ensure competent engineer services alarm system at least annually. Check for record of service in fire logbook.			
18. Can fires be readily	k)	Check issues raised from the questions given above.		See item 15.	
detected and staff warned promptly?	l)	Have fire drills revealed any relevant issues? (E.g. lack of staff awareness, unable to hear alarm in certain areas.)			
MEANS OF ESCAPE AND ESC	CAP	E TIMES (Safe egress)			
19. Do escape routes lead in different directions to places of safety? (I.e. a place beyond the building in which a person is no longer in	a)	Escape routes should be short enough to enable all people in the building to get to a place of safety, outside the building, in about two to three minutes. (In certain buildings e.g. Older Person's Residential Units progressive/ lateral evacuation should be adopted to reduce need for evacuation to outside areas.)			
danger.)	b)	If there is only one means of escape (e.g. one staircase) people should be able to reach a final exit door, protected staircase/refuge, or point with more than one route within one minute.			

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20. Are doorways wide enough? (Assume that the largest exit door is unavailable. Therefore the remaining doorways should be capable of providing satisfactory exit for those present.)	ŕ	Doorways should be at least 750 mm wide when up to 40 people per minute expected to use exit route. No less than 1 metre wide when up to 80 are expected. Increase of 75mm for each additional group of 15 people. Where doors are likely to be used by wheelchair users the doorway should be at least 800mm wide.			
21. Are corridors wide enough?	e)	Corridors should generally be a minimum of 1 metre wide. Areas used by wheelchair users require a minimum width of 1.2 metres. In large buildings corridor width may need to be greater.			
22. What is the condition of escape routes?	f)	Escape routes must be free from obstructions and trip hazards. Consider the need to mark escape routes (e.g. lines on floor) where routes are blocked/obstructed.			
	g)	Escape routes must be free from any obstacle that may cause undue delay to disabled people (e.g. raised thresholds or steps). Where minor changes of level cannot be avoided a ramp conforming to BS 5810 should be provided.			
	h)	Are carpets and nosings on stairs in good condition?			
23, Escape routes - continued.	i)	Changes in level that are not obvious should be marked to make them conspicuous.			
	j)	Escape routes must be free of; portable heaters of any type, cooking appliances, upholstered furniture, coat racks, temporarily stored items, waste bins, electrical equipment (other than security and emergency systems).			
24. Is there any use of refuges?	k)	Refuges must be used within the context that they are not areas where people should be left alone indefinitely until rescued, or the fire is extinguished.			
	l)	Minimum dimensions for refuges should be 900mm x 1400mm (to allow for wheelchair manoeuvring). The			

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	positioning and size of refuges should not have an adverse effect on the means of escape provided (i.e. a minimum clear width of 1 metre in corridors and stairways is required for clear access for other persons).			
	m) Refuges should be clearly identified with a green 'safe condition' safety sign.			
	n) Where a refuge is a lobby or stairway a blue 'mandatory' safety sign must be posted stating 'Refuge - keep clear.'			
	 A means to evacuate people to a place of safety must be provided (e.g. Evac-Chairs) and an adequate number of staff must be trained (with refresher training) in the use of this equipment. 			
25. Are stairways wide enough?	p) Stairways should generally be a minimum of 1 metre wide. They may need to be wider dependant on the number of people who are likely to use it.			
26. How often are fire drills held?	 q) Ensure that at least one fire drill is held annually. Check for record in fire logbook. 		Last fire drill undertaken 10/7/2013	
	r) Fire drills should be formally reviewed to identify problems encountered and any further actions required. The Fire and Rescue Service can be contacted to observe/assist.			

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27. What is the condition of fire doors?	s) Fire doors on escape routes should be fitted with self- closing devices and labelled 'Fire Door – Keep Shut' (blue 'mandatory' safety sign).	X	A number of fire doors throughout the premises are held open by wedges.	High
	t) Automatic fire doors must be labelled 'Automatic Fire Door – Keep Clear' (blue 'mandatory' safety sign).		All designated fire doors (unless provided with	
	u) Fire doors on escape routes should open in the direction of travel.		emergency operated self closing devices) should be	
	v) Fire escape doors should close fully on to the rebate and be in a good state of repair (self-closing device operates, door seal strips/brushes in place, vision panel not obscured, vision panel with wired or other safety glass).		maintained in the closed position. A self-closing fire door (30 minutes integrity and	
	w) Other fire doors (e.g. to electrical cupboards, service ducts, boiler rooms) need not be self-closing where they are kept locked and labelled with 'Fire Door – Keep locked shut' (blue 'mandatory' safety sign).		stability) should be provided between the oil store and the canteen/rest room.	
	x) Automatic doors should be connected into a manually operated alarm system incorporating automatic smoke detectors in the vicinity of the door or actuated by independent smoke detectors on each side of the door. It should be possible to operate them manually and they should automatically close in the event of a power failure.			
	y) Automatic doors should be closed at night.			
28. What is the	z) Final fire exit doors should open in direction of travel.			
condition of final fire exit doors?	aa) Final fire exit doors are free from obstructions (inside and outside). Where there is a risk of obstruction final fire doors should be labelled 'Fire door – keep clear.'			
	bb) Appropriate notices on how to open doors should be posted on the door. E.g. 'push bar to open.'			
	cc) Check that fire exit doors can be opened easily and immediately without the use of a key.			

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29. Final fire exit doors –continued.	dd) Check that no 'unauthorised' security work has been carried out on final fire exit doors. E.g. doors nailed, chained or padlocked shut, etc.			
	ee) Where a fire exit door needs to be fastened by a security device, it should be the only fastening on the door and all staff should know how to use it. Such devices are not normally suitable for use by members of the public.			
LIGHTING (Safe egress)				
30. Are all fire escape routes adequately lit?	a) All escape routes should be sufficiently lit for people to see their way out safely. Emergency escape lights may be needed if areas of the workplace are without natural daylight or are used at night.			
	b) Check the relevant areas with the lights off to see if there is sufficient light from other sources (e.g. streetlights or unaffected lighting circuits). If lighting is insufficient, emergency lighting should be provided.			
	c) Emergency lighting should function not only in a complete failure of normal lighting, but also on a localised failure that would present a hazard.			
	d) Emergency lighting should cover escape routes and be sited to cover specific areas. E.g. intersections of corridors, each exit door, flights of stairs, near fire alarm call points, fire exit signs, and changes in floor level, near fire fighting equipment, outside each final exit.			
	e) Occupier should check the operation of emergency lighting units at least monthly. Ensure record of check made in fire logbook.			
	f) A competent engineer should test emergency lighting system twice a year. Ensure record of test made in fire logbook.			
SIGNAGE (Safe egress)				

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31. Is adequate signage in place?	a) Ensure fire exit doors are clearly marked. See 'Means of Escape and Escape Times' section above			
	b) Ensure fire exit signs, final fire exit signs and directional fire exit signs are indicated with a green 'safe condition' pictogram/graphic symbol (the 'running person' symbol). Text only signs are no longer acceptable.			
	c) Ensure signs stating 'lifts must not be used in the event of a fire' are posted outside all lifts, unless it is a specifically designed 'fire fighting lift'.			
	d) Are signs in positions where they can be clearly seen?			
	e) Are all fire signs conspicuous (not covered or painted over, etc.)?			
FIRE FIGHTING EQUIPMENT	(Sufficient and appropriate, check and inspect)			
32. Is there at least	a) Ensure extinguishers are appropriate to the local risk.	X	There were sufficient and	High
one extinguisher for each 200 metres of floor space? (Minimum of 2 per floor,	 b) Ensure extinguishers are fixed near exit doors and at appropriate heights. (Handle of large extinguishers – approx. 1 metre from floor. Handle of small hand held extinguishers – approx. 1.5 metres from floor.) 		the correct type of extinguishers available throughout the premises. However, there were a	
unless it is an upper floor less than 100m ²).	 c) Ensure that fire extinguishers, hose reels, etc. are conspicuous (not blocked, obscured, etc.). Directional arrows and fire fighting equipment signs must be displayed where equipment is hidden from direct view. (E.g. hose reel in cupboard, extinguishers in an alcove.) 		number of spare or surplus extinguishers found in various locations that may not be in test or of the correct type. These should	
C	d) Where full body colour extinguishers (BS5423) are still in use, fire fighting equipment safety signs should be posted above the extinguisher.		be removed and placed in a secure store until they can either be serviced or removed completely.	
	e) Are weekly inspections of extinguishers carried out? Record inspections. (Safety clip, indication of use devices, external corrosion and dents. Check pressure level on steel pressure type.)			

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Extinguishers - continued.	f) Check extinguishers are inspected annually by a competent engineer. Check for record in fire logbook.			
g	g) Ensure there are notices and/or instructions indicating the correct use of extinguishers.			
33. Is there a hose reel in place?	 h) Are there any water extinguishers within reel range? (It is not necessary.) 			
	 i) Hose reels must be inspected annually by a competent engineer. Check for record in fire logbook. 			
34. Are there any dry/wet risers?	j) Check risers are tested annually by the fire service. Check for record in fire logbook.			
(Hose attachment points for the fire service.)	k) Dry and wet risers must be labelled 'dry riser' or 'wet riser' as appropriate (red 'fire fighting equipment' safety signs).			
35. Are there fire blankets	Light duty blankets - small fires in containers of cooking oils or fats and fires involving clothing.			
provided? (Please note that older fire blankets may contain	 m) Heavy duty blankets - industrial use where there is the need for the blanket to resist penetration from molten metals. 			
asbestos.	n) Tabs on fire blankets should be approximately 1.5 metres from the floor.			
	 Ensure relevant staff received instruction on the correct use of fire blankets. 			
PLANNING FOR AN EMERGE	NCY (Co-ordinating evacuation)			
36. Is there an emergency plan in place?	a) Ensure there is a plan for raising the alarm, calling the Fire and Rescue Service and assembly point locations.	х	It is intended that the site emergency plan will be reviewed following the completion of Fire Marshal training of staff and Fire	High
Emergency plans –continued	 Ensure fire action notices are in place and up to date. In general, fire action notices should be posted next to all fire alarm call points. 		Risk Assessment. A site plan including the location of all hazardous	
	c) Have the needs and abilities of disabled, sensory impaired		iocation of all nazardous	

ASSESSMENT CRITERIA	RECOMMENDED CONTROL MEASURES		RECOMMENDED ACTIONS	Degree of Risk
	and less able-bodied people been considered. Planning should take account of the needs of all occupants. It is essential to identify the abilities and needs of disabled people and make proper arrangements for their assistance.		products should be maintained adjacent to the fire alarm indicator panel for handing over to the fire service in the event of an	
	d) Ensure visitors, contractors and members of the public (if applicable) are considered as part of the plan.		emergency.	
	e) Fire drills should be formally reviewed to identify problems encountered and any further actions required.			
37. Have personnel received sufficient training and/or instruction on evacuation arrangements?	 f) Agreed evacuation procedures should be confirmed in writing to staff. Procedures must be clear and understandable. 			
	g) Do new employees receive instruction on the action to take in event of a fire on their first day of employment?			
	h) Do existing employees receive annual refresher training and/or instruction on what to do in the event of a fire? E.g. through team meetings.			
38. Is there a need for specialist training in the event of an emergency?	i) Ensure an adequate number of personnel are trained to assist in an emergency (including additional numbers to cover sickness, leave, etc.). E.g. fire wardens, aiding people with mobility impairments, etc.		Two fire wardens have received training and are on site permanently.	
	j) Are fire wardens in place and are they fully trained in their duties and responsibilities?			
	 Ensure that outside contractors and visitors receive necessary fire safety information (e.g. how to raise the alarm, location of exits, etc.) 			
39 . Specialist training - continued	Ensure an adequate number of personnel are trained to use extinguishers, hose reels and/or fire blankets.			

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The Manager should sign below to show that the assessment is a correct and reasonable reflection of the hazards and of the control measures and actions required.						
					Date compl 2013	eted: 16 th December
Managers name :		Managers signature:			Date receive	ed:

ADDITIONAL ASSESSORS COMMENTS: (Including any additional issues identified)

The oil/flammable liquid store within the main workshop building, contains a number of issues:

- 1. On the floor there is evidence of spilt liquids. It appears that some of the liquids involved may be flammable.
- 2. The doors leading to the store do not appear to be fire rated doors. There is currently one single metal fire/blast type door fitted. Consideration should be given to providing similar type doors throughout the store especially to the canteen/rest room.

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ADDITIONAL LINE MANAGERS COMMENTS: (Including any additional issues identified.)						
Please note Where action he	as been recommended and agreed by a manager, but cannot	he implemer	nted for a reason (e.g. issue/area	is outside		
	ancial constraints within the unit/section) the manager should r					

Rate	Significant Finding. Brief Description	Ref. Number	Date Actioned	Date Completed	Signature
HIGH	Portable Elec Eqpt. Two heavy duty batteries were located in the oil store. These should be removed immediately.	2			
HIGH	Combustible	6			
	Materials Items of personal clothing were found on top of the boiler in the changing room. This practice should cease immediately.				
HIGH	Highly Flammable	7			
	Materials				
	Liquid storage drums are not adequately sealed with drain breather plugs removed allowing the products to vaporise into the atmosphere. This could create an explosive atmosphere.				
HIGH	Highly Flammable	7			
	Materials There was evidence of oil spillage from the waste oil storage tank that had been partially cleaned. All spills especially from flammable products should be totally cleared away.				

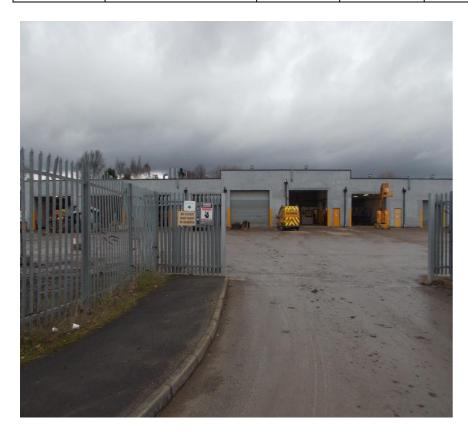
	Fire Doors	27		
HIGH	A number of fire doors throughout the premises are held open by wedges. All designated fire doors (unless provided with emergency operated self-closing devices) should be maintained in the closed position.			
HIGH	Fire Doors A self-closing fire door (30 minutes integrity and stability) should be provided between the oil store and the canteen/rest room.	27		
HIGH	Extinguishers There were sufficient and the correct type of extinguishers available throughout the premises. However, there were a number of spare or surplus extinguishers found in various locations that may not be in test or of the correct type. These should be removed and placed in a secure store until they can either be serviced or removed completely.	32		
HIGH	Emergency Plan It is intended that the site emergency plan will be reviewed following the completion of Fire Marshal training of staff and Fire Risk Assessment.	36		



Emergency Plan

A site plan including the location of all hazardous products should be maintained adjacent to the fire alarm indicator panel for handing over to the fire service in the event of an emergency.

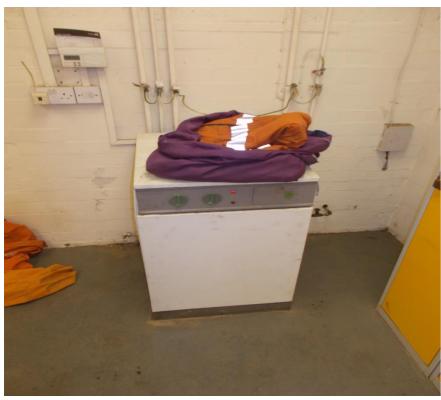
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Bulwell 16th December 2013



Bulwell Ref 2
Two heavy duty batteries were located in the oil store. These should be removed immediately.



Bulwell Ref 6
Items of personal clothing were found on top of the boiler in the changing room. This practice should cease immediately.



Bulwell Ref 7

Liquid storage drums are not adequately sealed with drain breather plugs removed allowing the products to vaporise into the atmosphere. This could create an explosive atmosphere.



Bulwell Ref 7
There was evidence of oil spillage from the waste oil storage tank that had been partially cleaned. All spills especially from flammable products should be totally cleared away.



Bulwell Ref 27

A number of fire doors throughout the premises are held open by wedges. All designated fire doors (unless provided with emergency operated self-closing devices) should be maintained in the closed position.