

Construction (Design & Management) Regulations - Designers Risk Assessment		Risk Matrix						
		Severity						Likelihood
Project: Project Castle Brethertons Fit Out Banbury	Very Likely	5	5	10	15	20	25	
	Likely	4	4	8	12	16	20	
	Possible	3	3	6	9	12	15	
	UnLikely	2	2	4	6	8	10	
	Very Unlikely	1	1	2	3	4	5	
		Score	1	2	3	4	5	
			Near Miss	Minor Injury	3 Day+ Injury	Major Injury	Death	

Job No:	11633/P/001		Date:	08/10/2021				
Ref No	Activity/Element	Potential Hazards	Population at Risk	Risk Level	Action at Design Stage	Risk Level	Contractor Control Options	Risk Level
1	Working in the vicinity of live cables	Contact with existing live services	Contractors	15	Highlight the issue in specification stipulating suitable protection and precautions. Contractor to adequately isolate and protect cables during the works, identify with 'live cable', hazard tape and during site induction process.	12		
2	Mains supply isolation and safe working on electrical distribution plant	Contact with existing live services	Contractors and Western Power Distribution	16	The mains power should be isolated by a WPD engineer and locked off and labelled prior to any works commencing on site	13		

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3	Installation of Plant, equipment and above ground services	Falls from height	Contractors	6	Extent of high level installations minimised where possible. Contractor to erect hand rails around working areas. Safety harness to be used. Correct access equipment.	4		
4	Insulation of pipes and ducts	Inhalation of fibres	Contractors	4	Specified use of bonded, non migratory fibrous insulation. Contractors to use protective masks.	2		
5	Installation of heavy plant items	Muscular strains, skeletal injury	Contractors	12	Specified modular plant items where practical. Contractor to employ lifting devices where necessary to comply with Manual Handling.	9		
6	Commissioning and testing (mechanical)	Electric shock, contact with moving parts	Contractors	4	Specify CIBSE Code commissioning procedures to be used. Specialist Commissioning Engineers to be used suitably approved.	3		

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7	Installation of traywork	Manual handling and cuts to body tissue	Contractors	3	Specify length of tray units and manufacturers accessories. Contractor to install to manufacturers requirements.	3		
8	Socket outlets and new power services	Electric shock	Contractor, Occupier	9	Use of mcb/rcd's. Contractor to test rcd's disconnection times.	4		
9	Testing and commissioning (electrical)	Electric shock burns	Contractor	4	Contractor to use BS7671 Wiring Regulations testing procedures. Contractor to use approved/trained Engineers.	4		
10	Hazardous materials	Gas bottles, paint insulation	Contractor	16	Correct storage, only to be installed or used by competent staff in accordance with COSHH sheets. Contractor to erect warning signs and store in secure areas.	10		

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11	Rooftop Openings	Falling objects	Contractors, Others, Public	9	High level services limited to minimum. Safe practices and Lanyards required on roof location. Provide safety harnesses, protective gear ie PPE equipment, hard hats etc and approved access equipment for working heights ie scaffolding/platforms.	6		
12	Working at roof level to install new services/equipment.	Risk of Personnel falling, Falling objects	Contractors, Others, Public	9	Specialist contractors specified with experience and knowledge. Provide safety harnesses, protective gear ie PPE equipment, hard hats etc and approved access equipment for working heights ie scaffolding/platforms. Cordon off work area and provide signage to keep others and public away from work area. Liaise with Site Management.	6		

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13	Noise and vibration transmission from use of power tools	Noise above normally acceptable NC levels.	Contractors, Others, Public	4	Limit noisy operations to specific periods, use of PPE equipment. Provide acoustic protection to all site operative using power tools. Limited noisy working to within specific periods. Notices to be posted as appropriate. Liaise with Site Management.	4		
14	Fire risk	Fire risk and potential spread of fire	All, Contractors, Others, Residents, Public	9	Limitation of work areas. Use of portable/local fire extinguishing equipment. Permit to work system for hot working. Permit to work system for hot working to be employed. Local fire extinguishers to be provided where hot working is carried out. Clear method statement for altering the home management in the event of breakout of fire in the areas unprotected by fire alarm system.	5		

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15	Fire escape routes	Blocked by work activities	All, Contractors, Others, Residents, Public	4	Limitation of work areas. General procedures to be agreed at pre-commencement meeting. Contractor to maintain escape routes at all times. Where not possible contractor to provide signage to alternative escape route.	3		
16	Lifting of new plant into position	Falls from height. Items falling to area below. Load switching in wind.	All, Contractors, Others, Residents, Public	15	Method Statement required with plan of lifting area on site. Area to be fully cordoned off. Possibly out of hour work to minimise disruption to area. Contractor to use specialist lifting company/devices including Banksman as necessary.	10		
17	New incoming Water/Electric Services	Accidental damage to others underground services	All, Contractors, Others, Residents, Public	20	Work to be undertaken by Utility Specialist companies. Existing drawings provided to tender stage. Cat scan of areas to identify existing services prior to commencing excavations/works.	10		

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18	Public Area Works	All works to be identified clearly in advance, agreed and securely fenced off to protect the work force and public.	All, Contractors, Others, Residents, Public	9	All fencing to be secure and screened to prevent dust and particulates transfer. Fencing to be planned to avoid tripping hazards to the public.	3		
19	Rooftop Plant Decommissioning, degassing and disassembling of redundant plant.	Working with potentially explosive/toxic gases and dangerous materials when decommissioning redundant plant.	Contractors	12	Correct investigative work to be done on site to ascertain existing plant installation. Correct PPE to be used when degassing and disassembling plant.	8		
20	Soldering and brazing of pipework	Burns, Fumes, Fire	Contractors	6	Minimised extent of pipework installations. Contractor to follow safe working practice.	5		
21	Welding of pipework	Burns, Fumes, Fire	Contractors	6	Minimised requirement for welding of steel pipework services. Use of pipework manifold kits or press fit preferred. Contractors to follow safe working practices. Pre-fabricate pipework where possible. Pressfit to be used when possible.	4		

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22	Pressure testing of pipelines	Injuries from pipe rupture, flying debris.	Contractors	8	To be carried out in accordance with manufacturers guidelines and recommendations.	5		
23	Working with refrigerants	Leakage to atmosphere	Environment	4	Method statement required. Compliance with current regulatory requirements.	1		