

Chartered Building Services Consulting Engineers

Health and Safety Document CDM Regulations

Project:-

National Museums Liverpool Sea Galleries

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K G A



EXISTING ENVIRONMENT

(use continuation sheets if required)

PROJECT	National Museums Liverpool – Sea Galleries	Client	National Museums Liverpool
		Architect	
JOB NO.	5003	Quantity Surveyors	
DATE	23 July 2019	Services Eng	KGA (UK)

LAND USES AND RESTRICTIONS (general description, with ref, to any potential/actual hazards)	Dwg/doc ref.
ADJACENT LAND (existing and previous uses - if known, e.g. school, hospital etc.	
Commercial Premises and Docks	
 PROPOSED SITE (existing and previous uses, if known, including landfill, railways, foundry etc.)	
Existing Museum and former warehouse	

PLANNING RESTRICTIONS (noise, smoke, dust, mud on roads, hours of working etc.)	Dwg/doc ref.
Existing Building, Listed Building, Building Regulations Approval.	



EXISTING ENVIRONMENT

(use continuation sheets if required)

EXISTING STRUCTURES (record hazardous substances, pre-stressed/post tensioned construction, demolition methodology, proximity of existing buildings, instability problems, removal of large components/plant requiring cutting or heavy lifting equipment etc.)	Dwg/doc ref.
Existing Building, currently in use.	

GROUND CONDITIONS (survey existing, site, trial/bore holes, presence of petrol/diesel tanks, boiler rooms/	Dwg/doc ref.
generators etc. fuelled by petrol/diesel. Record soil/water contamination, specify precautions to be taken and method statements required from Principal	
To Be Established by Survey	
	(survey existing, site, trial/bore holes, presence of petrol/diesel tanks, boiler rooms/ generators etc. fuelled by petrol/diesel. Record soil/water contamination, specify precautions to be taken and method statements required from Principal Contractor)



EXISTING ENVIRONMENT

(use continuation sheets if required)

EXISTING TRAFFIC SYSTEM AND RESTRICTIONS (restrictions on road width, bridge heights, car parking, skip location, delivery/ disposal times etc)	Dwg/doc ref.
Local Parking and Access Required to the Building.	

EXISTING SERVICES (underground/overhead cables on and adjacent to site, live/disused sewers and drains, gas pipes, hazardous substances within existing equipment, e.g. PCB's, insulation oils, refrigerant gases etc.)	Dwg/doc ref.
Electricity, Gas, Telecoms, Water	



DESIGNER'S HAZARD IDENTIFICATION

Project:	Sea Galleries	Designer: M Davies				
Stage of	Stage of Work: Electrical Services Installation					
Date:	Date: 23 July 2019					
Ref	Hazard	Action	Inform			
1.	Site Access, Mobile Plant	Personal awareness Demarcation and control by Main Contractor				
2.	Site Deliveries	As above and off loading precautions				
3.	High Structures - Fall	Restraint barriers, hats, scaffolding				
4.	High Structures - Falling Objects	As above				
5.	Masonry	As above				
6.	Mineral Fibres	Personal protection Area isolation Ventilation				
7.	Confined Spaces	Ventilation, awareness of location				
8.	Timber	Protective clothes and headgear				
9.	Stairs	Barriers, protective clothes, fire extinguisher				
10.	Electrical Installation	Protective workwear, isolation, earthing, marking				
11.	Lighting Installation	As above				



Sheet No.

А

Client : **National Museums of Liverpool**

Project :	Sea Galleries	Checklist Sheet Ref :	
Job No :	5003	Analysis By :	M Davies
Dwg Ref :		Date :	23 July 2019

Activity/Element of Design	Identify Hazard		
1A, 1B, 1D Pedestrian Route Site Access Site Deliveries	Struck by plant Struck by moving object Contact with moving machine		

RISK ASSESSMENT					
SEVERITY	[3] H	FATALITY, MAJOR INJURY OR ILLNESS CAUSING LONG TERM DISABILITY	LIKELIHOOD	[]H	CERTAIN OR NEAR CERTAIN TO OCCUR
	[3] M	INJURY OR ILLNESS CAUSING SHORT TERM DISABILITY		[] M	REASONABLY LIKELY TO OCCUR
	[3]L	OTHER INJURY OR ILLNESS		[3] L	VERY SELDOM OR NEVER OCCURS
TICK ASSESSMENT OF SEVERITY & LIKELIHOOD					
H/H AVOID WHENEVER POSSIBLE L/L MAY BE IGNORED					

ALL OTHER VALUES : CONTROL OR MINIMISE RISK

PRINCIPLES OF PROTECTION : SUGGEST METHODS/PROCEDURES REQUIRED TO AVOID/MINIMISE HAZARD

- Collective alertness and observation.
 Clear access and mobility space.
 Banksman provision.
 Manual handling, gloves and protection.
 Boots or protective footwear.
 Brotactive holmet
- 6. Protective helmet.



Sheet No.

В

National Museums of Liverpool Client :

Project :	Sea Galleries	Checklist Sheet Ref :	
Job No :	5003	Analysis By :	M Davies
Dwg Ref :		Date :	23 July 2019

Activity/Element of Design	Identify Hazard		
2B, 2C, 2E, 2F, 2K	Fall from height		
High structures, steelwork, masonry, concrete,	Moving object		
mineral fibres	Hazardous substance		

	RISK ASSESSMENT					
SEVERITY	[3] H	FATALITY, MAJOR INJURY OR ILLNESS CAUSING LONG TERM DISABILITY	LIKELIHOOD	[]H	CERTAIN OR NEAR CERTAIN TO OCCUR	
	[3] M	INJURY OR ILLNESS CAUSING SHORT TERM DISABILITY		[] M	REASONABLY LIKELY TO OCCUR	
	[3] L	OTHER INJURY OR ILLNESS		[3] L	VERY SELDOM OR NEVER OCCURS	
	TICK ASSESSMENT OF SEVERITY & LIKELIHOOD					
н	/H A\	OID WHENEVER POSSIBLE	L/L	MAY BE	IGNORED	
	ALL OTHER VALUES : CONTROL OR MINIMISE RISK				ISK	

PRINCIPLES OF PROTECTION :	SUGGEST METHODS/PROCEDURES REQUIRED TO AVOID/MINIMISE HAZARD
 Helmets. Harness. Mask. Gloves. Boots. 	



Sheet No.

С

National Museums of Liverpool Client :

Project :	Sea Galleries	Checklist Sheet Ref :	
Job No :	5003	Analysis By :	M Davies
Dwg Ref :		Date :	23 July 2019

Activity/Element of Design	Identify Hazard
3A, 3D Foundations	Trip

	RISK ASSESSMENT					
SEVERITY	[]H	FATALITY, MAJOR INJURY OR ILLNESS CAUSING LONG TERM DISABILITY	LIKELIHOOD	[]H	CERTAIN OR NEAR CERTAIN TO OCCUR	
	[3] M	INJURY OR ILLNESS CAUSING SHORT TERM DISABILITY		[] M	REASONABLY LIKELY TO OCCUR	
	[]L	OTHER INJURY OR ILLNESS		[3] L	VERY SELDOM OR NEVER OCCURS	
	TICK ASSESSMENT OF SEVERITY & LIKELIHOOD					
Н/	H/H AVOID WHENEVER POSSIBLE L/L MAY BE IGNORED				IGNORED	
		ALL OTHER VALUES : C	ONTROL OR MI	NIMISE R	ISK	

PRINCIPLES OF PROTECTION :	SUGGEST METHODS/PROCEDURES REQUIRED TO AVOID/MINIMISE HAZARD
 Tapes. Ventilation. Boards. Shoring. Fencing. 	



IL

Sheet No.

D

National Museums of Liverpool Client :

Project :	Sea Galleries	Checklist Sheet Ref :	
Job No :	5003	Analysis By :	M Davies
Dwg Ref :		Date :	23 July 2019

Activity/Element of Design	Identify Hazard		
5G, 6A, 6B Timber Insitu concrete stairs Pre-cast concrete stairs	Fall from height Trip Manual handling		

			COMENT		
		RISK AS:	SESSMENT		
SEVERITY	[] H	FATALITY, MAJOR INJURY	LIKELIHOOD	[] H	CERTAIN OR NEAR
		OR ILLNESS CAUSING			CERTAIN TO OCCUR
		LONG TERM DISABILITY			
	[3] M	INJURY OR ILLNESS		[] M	REASONABLY LIKELY TO
		CAUSING SHORT TERM			OCCUR
		DISABILITY			
		OTHER INJURY OR ILLNESS		[3] L	VERY SELDOM OR NEVER
	[3] L			[3] 🗖	OCCURS
		TICK ASSESSMENT OF			D
		TICK ASSESSMENT OF	SEVENIIALI	KELINUU	D
Н/	H AV	OID WHENEVER POSSIBLE	L/L	MAY BE	IGNORED
	ALL OTHER VALUES : CONTROL OR MINIMISE RISK				

PRINCIPLES OF PROTECTION :	SUGGEST METHODS/PROCEDURES REQUIRED TO AVOID/MINIMISE HAZARD
 Protective gloves and clothes. Helmet. Warning markers. Tapes. 	



Sheet No.

Е

Project :	Sea Galleries	Checklist Sheet Ref :	
Job No :	5003	Analysis By :	M Davies
Dwg Ref :		Date :	23 July 2019

Activity/Element of Design	Identify Hazard
7A Welding	Metal splash Electricity Gas explosion Fire

	RISK ASSESSMENT					
SEVERITY	[]H	I FATALITY, MAJOR INJURY OR ILLNESS CAUSING LONG TERM DISABILITY	LIKELIHOOD	[] H	CERTAIN OR NEAR CERTAIN TO OCCUR	
	[3] N	INJURY OR ILLNESS CAUSING SHORT TERM DISABILITY		[] M	REASONABLY LIKELY TO OCCUR	
	[3] L	OTHER INJURY OR ILLNESS		[3] L	VERY SELDOM OR NEVER OCCURS	
		TICK ASSESSMENT OF	SEVERITY & LI	KELIHOO	D	
н	/H	AVOID WHENEVER POSSIBLE	L/L	MAY BE	IGNORED	
		ALL OTHER VALUES : CO	ONTROL OR MI	NIMISE R	ISK	

PR	INCIPLES OF PROTECTION :	SUGGEST METHODS/PROCEDURES REQUIRED TO AVOID/MINIMISE HAZARD
1. 2. 3. 4. 5. 6.	Protective mask. Helmet. Gloves. Boots. Earthing. Electricity insulation.	



Sheet No.



Project :	Sea Galleries	Checklist Sheet Ref :	
Job No :	5003	Analysis By :	M Davies
Dwg Ref :		Date :	23 July 2019

Activity/Element of Design	Identify Hazard
16A, 16B, 16D, 16G, 16J, 16L Electrical Distribution 17A, 17B, 17C, 17D Lighting Installation 19 Lightning Installation	Confined spaces Electric shock Fire Manual handling cuts Trip, fall from height

	RISK ASSESSMENT					
SEVERITY	[3] H	FATALITY, MAJOR INJURY OR ILLNESS CAUSING LONG TERM DISABILITY	LIKELIHOOD	[]H	CERTAIN OR NEAR CERTAIN TO OCCUR	
	[3] M	INJURY OR ILLNESS CAUSING SHORT TERM DISABILITY		[3] M	REASONABLY LIKELY TO OCCUR	
	[3]L	OTHER INJURY OR ILLNESS		[3] L	VERY SELDOM OR NEVER OCCURS	
		TICK ASSESSMENT OF	SEVERITY & L	IKELIHOO	D	
н	/H /	VOID WHENEVER POSSIBLE	L/L	MAY BE	IGNORED	
	ALL OTHER VALUES : CONTROL OR MINIMISE RISK					

PR	INCIPLES OF PROTECTION :	SUGGEST METHODS/PROCEDURES REQUIRED TO AVOID/MINIMISE HAZARD	
1. 2. 3. 4. 5. 6. 7. 8.	Shock protection. Insulation. Protective gloves. Boots. Helmet. Harness. Rails. Warning signs.		
9.	Fuse and switch protection.		



Sheet No.

G

Project :	Sea Galleries	Checklist Sheet Ref :	
Job No :	5003	Analysis By :	M Davies
Dwg Ref :		Date :	23 July 2019

Activity/Element of Design	Identify Hazard		
20A	Confined space		
Lift installation	Fall from height		
25C, 25D, 25F, 25B	Electric shock		
Fans	Contact with moving machines		

RISK ASSESSMENT					
SEVERITY	[3] H		LIKELIHOOD	[]H	CERTAIN OR NEAR
		OR ILLNESS CAUSING LONG TERM DISABILITY			CERTAIN TO OCCUR
	[3] M	INJURY OR ILLNESS CAUSING SHORT TERM DISABILITY		[] M	REASONABLY LIKELY TO OCCUR
	[3] L	OTHER INJURY OR ILLNESS		[3] L	VERY SELDOM OR NEVER OCCURS
		TICK ASSESSMENT OF	SEVERITY & L	IKELIHOO	D
н	Г/Н .	AVOID WHENEVER POSSIBLE	L/L	MAY BE	IGNORED
	ALL OTHER VALUES : CONTROL OR MINIMISE RISK				

PR	INCIPLES OF PROTECTION :	SUGGEST METHODS/PROCEDURES REQUIRED TO AVOID/MINIMISE HAZARD
1. 2. 3. 4. 5. 6. 7. 8.	Protective clothes. Harness. Scaffolding. Rails. Boots. Helmets. Insulation. Guards.	



Sheet No.

Η

Project :	Sea Galleries	Checklist Sheet Ref :	
Job No :	5003	Analysis By :	M Davies
Dwg Ref :		Date :	23 July 2019

Activity/Element of Design	Identify Hazard
Heating Plant	Metal splash
26A, Boiler Plant	Manual handling
26C, Pipework	Electricity
26D, Emitters	Fire
26E, Controls	Hazardous substances
26H, Commissioning	Explosion

		RISK ASS	SESSMENT		
SEVERITY	[]H	FATALITY, MAJOR INJURY OR ILLNESS CAUSING LONG TERM DISABILITY	LIKELIHOOD	[]H	CERTAIN OR NEAR CERTAIN TO OCCUR
	[3] M	INJURY OR ILLNESS CAUSING SHORT TERM DISABILITY		[] M	REASONABLY LIKELY TO OCCUR
	[3] L	OTHER INJURY OR ILLNESS		[3] L	VERY SELDOM OR NEVER OCCURS
		TICK ASSESSMENT OF	SEVERITY & L	IKELIHOO	D
н	/H A	OID WHENEVER POSSIBLE	L/L	MAY BE	IGNORED
		ALL OTHER VALUES : CO	ONTROL OR MI	NIMISE R	ISK

PRIN	ICIPLES OF PROTECTION :	SUGGEST METHODS/PROCEDURES REQUIRED TO AVOID/MINIMISE HAZARD
2. 3. 4. 5. 6. 7. 8.	Proper illumination. Test instrumentation. Protective hand barrier cream. Gloves. Boots. Clothes. Insulation. Earth bonding. Assisted lifting.	



(to be read in conjunction with Risk Analysis Sheets)

							HAZ	ARD (t	ick the re	elevant ha	zards)					
	ACTIVITY	Rads, Chems & Metal Splash	Confined Spaces	Fall From Height	Struck by Mobile Plant	Trip	Collapse	Manual Handling	Moving Object	Electricity	Contact with Moving Machine	Fire	Hazardous Substances	Noise and Vibration	Explosion	Other
1	SITE SET-UP															
А	SITE ACCESS				✓				✓		\checkmark					
В	SITE DELIVERIES				\checkmark			\checkmark	✓		\checkmark					
С	SITE COMPOUND															
D	PEDESTRIAN ROUTES				✓						\checkmark					
Е	OTHER															
F	OTHER															
2	DEMOLITION/ALTER/ RENOVATION															
А	DANGEROUS STRUCT'S															
В	HIGH STRUCTURES			\checkmark												
С	STEELWORK								✓							
D	R/CON FRAME															
Е	MASONRY			\checkmark										✓		
F	CONCRETE												✓			
G	LARGE PC PANELS															
Н	P/STRESSED, P/TENSIONED															
J	ASBESTOS												✓			
К	OTHER MINERAL FIBRES												✓			
L	PETROL/DIESEL TANKS															
М	FUTURE DEMOLITION															
Ν																



(to be read in conjunction with Risk Analysis Sheets)

							HAZ	CARD (t	ick the re	elevant ha	azards)					
	ACTIVITY	Rads, Chems & Metal Splash	Confined Spaces	Fall From Height	Struck by Mobile Plant	Trip	Collapse	Manual Handling	Moving Object	Electricity	Contact with Moving Machine	Fire	Hazardous Substances	Noise and Vibration	Explosion	Other
3	GROUNDWORKS EXCAVATION															
А	FOUND'NS/TRENCHES				1	✓				✓						
В	DRAINS/SERVICES															
С	SERV/SEWER DIVERSION															
D	ENTRY INTO CONF'D SPACES															
Е	UNDERPINNING															
F	PILING															
G	OTHER															
Н	OTHER															
J	OTHER															
4	ROADWORKS															
А	WORKS TO CARRIAGEWAY															
В	WORKS TO FOOTWAY															
С	SERVICE DIVERSIONS															
D	OTHER															
Е	OTHER															
5	STRUCTURE: ERECTION/ CONSTRUCTION/HANDLING															
А	STEEL															
В	INSITU/CONCRETE FOUNDS															
С	PRECAST CONCRETE															
D	FLOOR PLANKS															
Е	LARGE PC PANELS															
F	MASONRY															



(to be read in conjunction with Risk Analysis Sheets)

							HAZ	ARD (1	tick the re	elevant ha	zards)					
	ACTIVITY	Rads, Chems & Metal Splash	Confined Spaces	Fall From Height	Struck by Mobile Plant	Trip	Collapse	Manual Handling	Moving Object	Electricity	Contact with Moving Machine	Fire	Hazardous Substances	Noise and Vibration	Explosion	Other
G	TIMBER (incl Trussed Rafters)					\checkmark		✓								
6	STAIRS												-			
А	INSITU CONCRETE			✓		✓										
В	PRECAST CONCRETE			✓		✓										
С	METAL PAN															
D	PRE-FAB STEEL															
Е	INSITU TIMBER															
F	OTHER/SPECIAL DESIGN															
G	OTHER															
Н	OTHER															
J	OTHER															
7	ASSOCIATED ACTIVITIES						I	•								
А	SITE WELDING	✓								✓						
В	PUMPING															
С	HANDLING LOOSE POWDERS															
D	DISC CUTTING															
Е	OTHER															
F	MAINTENANCE ACCESS															
G	OTHER															
н	OTHER															
8	CLADDING/COVERING															
А	STONE															
В	PANELS															
С	CLEANING/REPLACEMENT															



(to be read in conjunction with Risk Analysis Sheets)

HAZARD (tick the relevant hazards) Struck by Rads, Confined Fall From Trip Collapse Manual Moving Electricity Contact Hazardous Other Fire Noise Explosion ACTIVITY Substances Chems & Spaces Height Mobile Handling Object with and Moving Metal Plant Vibration Splash Machine WATERPROOFING 9 ASPHALT А В FELT С HOT WORKING D SINGLE PLY MEMBRANES Е OTHER OTHER F G OTHER 10 LINING/DRY PARTIT'ING TIMBER STUD PARTITIONS А METAL STUD PARTITIONS В С OTHER PROPRIETARY SUSPENDED CEILING D SPRAYED APPLICATIONS Е F MANMADE FIBRES G OTHER Н OTHER 11 DOORS OTHER А WINDOWS 12 REPLACEMENT/PAINTING А В CLEANING С CLEANING/GLAZING/ ~ ROOF/GLAZING PREFAB STEEL D OTHER Е



(to be read in conjunction with Risk Analysis Sheets)

							HAZ	ARD (ti	ck the rel	evant haz	zards)					
	ACTIVITY	Rads, Chems & Metal Splash	Confined Spaces	Fall From Height	Struck by Mobile Plant	Trip	Collapse	Manual Handling	Moving Object	Electricity	Contact with Moving Machine	Fire	Hazardous Substances	Noise and Vibration	Explosion	Other
F	OTHER															
13	SURFACE FINISHES															
А	STONE															
В	CERAMICS															
С	SYNTHETIC SHEET/TILES															
D	COATINGS															
Е	PAINT/SEALERS															
F	GLUING															
G	CUTTING/SANDING WOOD BASED MATERIAL															
Н	OTHER															
J	OTHER															
К	OTHER															
14	EXTERNAL WORKS															
А	WALLS AND FENCING															
В	PAVING															
С	PLANTING															
D	SITE FURNITURE															
Е	OTHER															
F	OTHER															
15	DISPOSAL SYSTEMS								·					•		
А	SURFACE WATER															
В	FOUL WATER															
С	SEPTIC TANKS															
D	INSPECTION CHAMBERS															



(to be read in conjunction with Risk Analysis Sheets)

							HAZ	CARD (1	ick the re	elevant ha	zards)					
	ACTIVITY	Rads, Chems & Metal Splash	Confined Spaces	Fall From Height	Struck by Mobile Plant	Trip	Collapse	Manual Handling	Moving Object	Electricity	Contact with Moving Machine	Fire	Hazardous Substances	Noise and Vibration	Explosion	Other
Е	CULVERTS															
F	OTHER															
G	OTHER															
Н	OTHER															
16	ELECTRICAL DISTRIB'N		•	•			•	•	•	•	•	•				
А	HV SWITCHGEAR		✓							✓		✓				
В	LV SWITCHGEAR		✓							✓		✓				
С	STANDBY GENERATOR															
D	TRANSFORMERS									✓						
E	POWER FACTOR CORRECTION EQUIPMENT															
F	UPS EQUIPMENT															
G	CABLE INSTALLATION					√		✓		✓						CUTS
Н	CABLE SUPPORT SYSTEM															
J	CABLE CHAMBERS		✓													
К	CABLE TRENCHES															
L	TESTING/COMMISSIONING									✓						
М	OTHER															
Ν	OTHER															
Ρ	OTHER															
17	LIGHTING INSTALLATION							•								
А	LUMINAIRE			✓						\checkmark						
В	REMOTE CONTROL GEAR			✓						✓	T					
С	LAMPS			✓						✓	T					
D	EXTERNAL LIGHTING			✓			l l			✓	Ī					



(to be read in conjunction with Risk Analysis Sheets)

							HAZ	CARD (t	ick the re	levant ha	zards)					
	ACTIVITY	Rads, Chems & Metal Splash	Confined Spaces	Fall From Height	Struck by Mobile Plant	Trip	Collapse	Manual Handling	Moving Object	Electricity	Contact with Moving Machine	Fire	Hazardous Substances	Noise and Vibration	Explosion	Other
E	SIGNAGE															
F	OTHER															
G	OTHER															
18	COMMUNIC'NS/SECURITY						•			•			•			
А	EQUIPMENT									✓						
В	CABLING			✓						✓						
С	OTHER															
D	OTHER															
19	LIGHTNING PROTECTION						•			•			•			
А	INSTALLATION			✓				\checkmark								
В	INSPECTION			✓			T			T			T			
С	OTHER						T			T			T			
D	OTHER						Ī			Ī			Ī			



(to be read in conjunction with Risk Analysis Sheets)

							HAZ	CARD (t	ick the re	levant ha	zards)					
	ACTIVITY	Rads, Chems & Metal Splash	Confined Spaces	Fall From Height	Struck by Mobile Plant	Trip	Collapse	Manual Handling	Moving Object	Electricity	Contact with Moving Machine	Fire	Hazardous Substances	Noise and Vibration	Explosion	Other
	MECHANICAL HANDLING															
20	LIFTS															
А	NEW INSTALLATION															
В	MODIFY EXISTING INST.															
С	OTHERS															
21	ESCALATORS			•	•			•		•	•	•				
А	NEW INSTALLATION															
В	OVERHAUL EXISTING															
С	REMOVAL OF EXISTING															
D	OTHER															
Е	OTHER															
22	OTHER EQUIPMENT/ ACTIVITY															
А	DOCK LEVELLERS															
В	AUTOMATIC DOORS															
С	ROLLER SHUTTER DOORS															
D	FIRE SHUTTERS															
Е	BALER															
F	COMPACTOR															
G	SCISSOR LIFT															
Н	HOT WORK											✓				
J	TESTING COMMISSIONING									✓		✓				
К	OTHER															
L	OTHER															



(to be read in conjunction with Risk Analysis Sheets)

							HAZ	ARD (1	tick the re	elevant ha	zards)					
	ACTIVITY	Rads, Chems & Metal Splash	Confined Spaces	Fall From Height	Struck by Mobile Plant	Trip	Collapse	Manual Handling	Moving Object	Electricity	Contact with Moving Machine	Fire	Hazardous Substances	Noise and Vibration	Explosion	Other
23	FIRE PROTECTION															
А	SPRINKLERS															
В	PIPEWORK															
С	TANKSET															
D	PUMP															
Е	HOT WORKING															
F	OTHER															
G	OTHER															
24	GAS DISCHARGE														1	
А	PIPEWORK INSTALLATION															
В	GAS															
С	TESTING/COMMISSIONING															
D	OTHER															
Е	OTHER															
	MECHANICAL INSTALLATION		1	1	1	1		1	1			1	1	1		
25	AIR SUPPLY/ EXTRACT SYSTEM															
А	CENTRAL PLANT															
В	FANS		T							✓	✓			l		
С	DUCTWORK		Ī				1			1						
D	CONTROL DEVICES									✓						
Е	FILTERS															
F	TESTING/COMMISSIONING									✓						



(to be read in conjunction with Risk Analysis Sheets)

							HAZ	ARD (t	ick the re	levant ha	zards)					
	ACTIVITY	Rads, Chems & Metal Splash	Confined Spaces	Fall From Height	Struck by Mobile Plant	Trip	Collapse	Manual Handling	Moving Object	Electricity	Contact with Moving Machine	Fire	Hazardous Substances	Noise and Vibration	Explosion	Other
26	HEATING PLANT															
А	BOILER PLANT									✓		\checkmark			✓	
В	CALORIFIER															
С	PIPEWORK	\checkmark						\checkmark					✓			
D	HEAT EMITTERS							✓								
Е	CONTROL DEVICES		✓							✓						
F	GAS SUPPLY															
G	OIL SUPPLY															
Н	TESTING/COMMISSIONING									✓					✓	
J	HOT WORK															
К	OTHER															
L	OTHER															
М	OTHER															
27	COOLING PLANT		•	•	•		•		•	•			•			
А	CHILLER PLANT															
В	COOLING TOWERS															
С	DRY COOLERS															
D	PIPEWORK							✓								
Е	CONTROL DEVICES						T						T			
F	ROOM UNITS															
G	REFRIGERANT GAS	1									✓		✓			
Н	HOT WORK															
J	OTHER															
К	OTHER															



(to be read in conjunction with Risk Analysis Sheets)

ACTIVITY		HAZARD (tick the relevant hazards)														
		Rads, Chems & Metal Splash	Confined Spaces	Fall From Height	Struck by Mobile Plant	Trip	Collapse	Manual Handling	Moving Object	Electricity	Contact with Moving Machine	Fire	Hazardous Substances	Noise and Vibration	Explosion	Other
28	FOOD REFRIGERATION															
А	COMPRESSOR PLANT															
В	CONDENDSER PLANT															
С	PIPEWORK															
D	CONTROL DEVICES															
Е	CABINETS															
F	COLD ROOMS															
G	REFRIGERANT GAS															
Н	HOT WORK															
J	OTHER															
к	OTHER									T						
L	OTHER															