



Risk Assessment

Form WMRA F1

Doc Reference WMT/BOS/DEM000 – Draft RA Rev 0

Site	BOS Plant	Task or work operation	Hazardous Insulating Material Removal, Decontamination, Demolition & Site Clearance
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Date of Assessment	03/06/21	Assessors Name	Paul Turbitt	Assisted by	Gary Herbert
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(1) Hazard	(2) Hazard Sub-category	(3) Persons at Risk	Initial Risk Level		(6) Risk Score	(7) Control measures	Residual Risk Level		(10) Risk Score	(11) Accepted
			(4) Severity	(5) Likelihood			(8) Severity	(9) Likelihood		

Severity

Likelihood

1 – Minor accident (First Aid)	2 – Major accident (RIDDOR)	3 – Fatality	1 - Low	2 – Medium	3 – High
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Risk Rating & Control & Monitoring Protocols

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Asbestos	a. Known asbestos b. Un-known asbestos	Operatives, third parties, STDC employees	3	2	6	<p>Each specific structure / building has been surveyed by a UKAS approved asbestos surveyor to produce a Hazardous Insulating Materials / Asbestos Survey.</p> <p>Thompsons will remove all asbestos containing materials as identified within the Hazardous Insulating Materials / Asbestos Surveys.</p> <p>Asbestos removal will be undertaken by highly trained, skilled and experienced operatives. Thompson's operatives (plant and demolition) are asbestos trained and experienced. Works will be directly overseen by Thompsons Asbestos Supervisors and Manager.</p> <p>Asbestos removal works will be conducted within exclusion zones, ensuring that access is only permitted to essential asbestos removal personnel.</p> <p>During asbestos removal works a UKAS accredited asbestos analyst will conduct background and personal monitoring to ensure the effectiveness of the asbestos removal techniques and control measures.</p> <p>If suspect materials are identified during the demolition phase of works (which had not been previously noted by the asbestos surveyors) then our operatives will cease works and will notify the project management team.</p>	3	1	3	YES
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Slips, trips and falls	<p>a. Un-even ground conditions</p> <p>b. Poor routing of cables and hoses</p> <p>c. Poor standard of housekeeping</p>	Operatives, visitors, third parties	2	2	4	<p>Works will be conducted within an exclusion zone, with only essentials persons present.</p> <p>Working area is primarily on hard-standing. Un-made ground will be excluded from working areas, stockpile and storage areas.</p> <p>Working area will be tidied following any preparatory works and prior to commencement of the lifting operation.</p> <p>Hoses and cables will be routed with care and will not span transit routes unless controls are in place (above head-height or within cable channels).</p> <p>Operatives will ensure good housekeeping within the working area.</p> <p>Site Managers will conduct daily checks.</p> <p>Hazard Spot system in place.</p>	2	1	2	YES
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Services located within close proximity to structures marked for demolition	a. Live OH services	Environment	3	2	6	Prior to commencement of works on site a programme of termination and diversion of services associated with the structures marked for demolition will be carried out by STDC.	3	1	3	YES
	b. Live buried services					Thompsons are aware that live services will continue to exist above and below ground in the surrounding areas which feed adjacent buildings. Prior to commencement Thompsons will liaise with STDC and will confirm the status of services. Thompsons will ensure that operatives are made fully aware of the type, size and location of all services which remain within and around the demolition area and that liaison is undertaken with the appropriate persons and departments during the planning of works methods and sequencing. Services will be treated as live until receipt of confirmation of isolation / termination.				
	c. Live pipe trenches					Thompsons will ensure that live services are not interrupted or damaged in any way. Protection to services will be installed as deemed appropriate by risk assessment, to the satisfaction of STDC.				
	d. Live plant					Structures will be demolished down to slab level only.				

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Residual contamination	a. Residual product or product wash waters in pipelines	Operatives & environment	2	2	4	<p>Pipework has been flushed-through / decontaminated by STDC. Residual product may however remain.</p> <p>MSDS and COSHH will be in place.</p> <p>All works on site will be controlled by a Permit to Work system.</p> <p>Cuts will be made via mechanical means where possible (excavator machine with shear).</p> <p>Where cuts are required they will be made using hand tools (cold-cut) then a controlled cut will be made via recip saw. During cutting and removal of pipe sections operatives will wear RPE / PPE (PVC coveralls, PVC gauntlets, Power assisted respirator equipped with P3 ABEK-1 combi filter).</p> <p>Eye wash stations will be located at the workplace.</p> <p>Handover report in place.</p> <p>Operatives to remain vigilant.</p> <p>A high standard of welfare will be in place for decontamination.</p>	2	1	2	YES
Use of hand tools (spanner, socket)	a. Use of incorrect tools b. Poor maintenance of tools	Operatives	2	2	4	<p>Operatives are trained in the safe use of hand tools.</p> <p>The correct type of tool for the job must always be selected.</p> <p>Tools should be inspected before their use. Damaged tools will be replaced and should not be used.</p>	2	1	2	YES

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Use of mechanical cold cutting tools	c. Incorrect use of tools d. Poor maintenance of tools e. Hand arm vibration f. Noise	Operatives	2	2	4	<p>The correct type of tool for the job must always be selected. Operatives will adhere to a specific Method Statement.</p> <p>Tools should be inspected before their use. Damaged tools will be replaced and should not be used.</p> <p>Operatives will be required to wear hearing protection during the use of the mechanical cold cutting tools.</p> <p>A system of job rotation will be in place to reduce HAVs.</p>	2	1	2	YES
Use of excavator machine	a. Unsafe operation of plant b. Operation of plant adjacent to third parties	Operatives	3	2	6	<p>Mobile plant will be operated by a CPCS trained and experienced operator.</p> <p>The working area will be controlled as a demolition exclusion zone during the period of the works.</p> <p>Works will be undertaken under the supervision of a Thompsons Demolition Supervisor and with banksmen present.</p>	3	1	3	YES
Erection and removal of fence and barriers	a. Manual handling b. Cuts, abrasions	Operatives	2	2	4	<p>Heras fence panels are to be handled and lifted using a two-man team lift.</p> <p>Gloves will be worn when handling fence panels and barriers.</p> <p>Good housekeeping will be in place within the working area to allow for unrestricted handling and movement of fence panels and barriers.</p>	2	1	2	YES

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Working at heights from MEWP	a. Falls from height b. Falls of materials from height c. Tip-over of MEWP	Operatives	3	2	6	<p>The MEWP will be operated by a CPCS trained and experienced operator.</p> <p>MEWP will operate on firm and level ground free from obstruction.</p> <p>An exclusion zone will be in force at ground level below the MEWP.</p> <p>Two operatives will work within the MEWP basket. In the event of injury the second operative will lower the basket to ground level. In the event that the controls in the basket do not respond a trained operator at ground level will use the emergency controls.</p> <p>Operatives will wear a full body safety harness with fall restraint (1m) lanyard during works. The lanyard will be secured to the approved fixed point within the MEWP basket.</p> <p>The SWL of the MEWP basket (227kg) will not be exceeded during works.</p> <p>A powder fire extinguisher will be kept at ground level adjacent to the MEWP.</p>	3	1	3	YES
Noise from use of mechanical cold cutting tools	a. Hearing damage to operative b. Hearing damage to others within area	Operatives & third parties	2	2	4	<p>The use of the mechanical cold cutting tools produces noise in excess of 85dB(A) and will require operatives to wear hearing protection.</p> <p>Works will be conducted in exclusion zone away from other workers.</p>	2	1	2	YES

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Use of compressor and generator	a. Hearing damage b. Environmental damage c. Electrocutation	Operatives, environment &	2	2	4	<p>The generator and compressor will be hired from an approved supplier. The generator will be checked on arrival at site. All checks and certification will be in place.</p> <p>A spill kit will be sited within the working area. A drip tray will be placed below the fill-point.</p>	2	1	2	YES
Vibration from use of powered hand tools	a. Hand arm vibration	Operatives	2	2	4	<p>Where vibratory hand tools are used then a system of monitoring and worker rotation will be put into place.</p> <p>HAVs tags will be displayed on each item of equipment.</p> <p>Trigger time log sheets will be in place.</p> <p>Operatives are in receipt of health surveillance.</p> <p>Operatives will wear gloves to keep their hands warm.</p>	2	1	2	YES
Vehicle movement	a. Access / egress to site b. Movement around site c. Public highway and footpath adjacent works.	Operatives, STDC Employees & third parties	3	2	6	<p>Thompsons will minimise any inconvenience, impediment or restriction to STDC operations, the public and third parties at all times during the period of the works. Thompsons will carefully pre-plan all vehicular movements on/off site and will strictly manage the interface between vehicles and pedestrians on site.</p> <p>Prior to commencement of works a Traffic Management Plan will be designed and put into place for each Stockhouse area. The TMP will address issues of plant and vehicular access around site and to/from site. All operatives and visitors will be inducted as to its requirements. The TMP will be a live document and will be revised and expanded as works progress.</p> <p>Upon arrival at site staff and visitors will be given clear instructions on parking, pedestrian access to places of work and robust signing in procedures.</p> <p>All roads and footpaths will be kept clear of debris etc. at all times.</p>	3	1	3	YES

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Instability of structures during demolition	a. Instability during demo adjacent third parties b. Un- authorised demolition technique	Operatives, STDC Employees & third parties	3	2	6	<p>Works will be conducted within an exclusion zone with only essential persons present.</p> <p>Structural Reports will be prepared for each area of the plant.</p> <p>A series of detailed Method Statements will be compiled and adhered to. Method Statement will include sequencing of works.</p> <p>Works will be undertaken under the supervision of a Thompsons Demolition Supervisor.</p> <p>Demolition works and site finishes will be in accordance with the contract specification. All demolition methodology will comply with BS6187:2011 Code of Practice for Demolition Operations.</p> <p>All works will be undertaken within a demolition exclusion zone and adhering to pre-planned sequencing to ensure the safety of the public and third parties and to reduce dust, noise and vibration to a minimum.</p>	3	1	3	YES
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Hot works	a. Fire b. Explosion c. Burns	Operatives Third parties	3	3	9	<p>Hot works will be compliant to HSG168.</p> <p>Thompsons hot work procedure has been reviewed and control measures incorporated into the Method statement.</p> <p>Hot works will be conducted under a Thompsons permit to work system.</p> <p>Hot works will be conducted by a CCDO Topman operative, working under the direction of the Site Supervisor.</p> <p>The Burner operative is to wear RPE/PPE as defined within the method statement pre-amble.</p> <p>A Hot Work Permit will be required to be signed on a daily basis</p> <p>Initial gas leak check will be carried out prior to any hot works.</p> <p>Sparks will be contained by angling cuts to cut downwards</p> <p>A charged fire hose, pressure washer bowser, fire extinguishers and fire point will be in place</p> <p>The oxygen and propane bottles will be sited within a designated area and the hoses routed with care. Flash back arrestors will also be present.</p> <p>Access for the emergency services will not be restricted</p> <p>Fire watchers will be in attendance during hot working, fire watchers must be in place during break times, fire watchers must hold current qualification.</p> <p>A continuous fire watch will be in place during hot works. The fire watch will extend for 1-hour following completion of each shift of hot works.</p> <p>The floor will be wetted before, at intervals during and on completion of hot works.</p>	3	1	3	YES
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Noise from use of hot cutting equipment	a.Hearing damage to operative b.Hearing damage to others within area	Operatives	2	2	4	The use of the hot cutting equipment produces noise in excess of 85dB(A) and will require operatives to wear hearing protection (ear plugs). Works will be conducted in exclusion zone away from other workers.	2	1	2	YES
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Spread of COVID-19 virus between members of working party and stakeholders	c. Site personnel cross-contaminating during course of normal work scope d. Not adhering to government guidelines, HSE advice and industry advice	Operatives	3	2	6	<p>Non-essential physical work that requires close contact between workers should not be carried out where possible.</p> <p>Work requiring skin to skin contact should not be carried out.</p> <p>Thompsons will plan all other work to minimise contact between workers</p> <p>Re-usable PPE will be thoroughly cleaned after use and not shared between workers</p> <p>Single use PPE will be disposed of so that it cannot be reused</p> <p>Regularly clean touchpoints, doors, buttons etc. During POWRA operatives to identify surfaces that will be touched for regular cleaning</p> <p>Regularly clean the inside of vehicle cabs and between use by different operators.</p> <p>The 2m standoff must not jeopardise operatives safety and where tasks require persons to work together, they must be assessed to look for alternative methods of work.</p> <p>In accordance with Covid19 guidance and the hierarchy of controls identified in the Construction Leadership Council Guidance, if 2m social distancing cannot be adhered to, operatives will be instructed to minimise the frequency and time they are within 2m of each other, operatives should work side by side or facing away from each other rather than face to face, regularly clean common touch points and instructed to wash their hands before and after using this equipment.</p> <p>If 2m social distancing cannot be maintained during hand removal of pipework, operatives will be advised to wear a face covering.</p> <p>Supervisor to remind employees to wash their hands for 20 seconds more frequently and catch coughs and sneezes in tissues</p> <p>Supervisor to work with and instruct the team to frequently clean and disinfect objects and surfaces that are touched regularly, using your standard cleaning products.</p>	3	1	3	YES
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Stored Energy	a – Personal injury	Operatives Third parties STDC operations	2	2	4	<p>It should be considered that the release of tensioned springs, pipe hangers or pipework may result in the release of stored energy.</p> <p>Always ensure that personnel are clear prior to the release of any tensioned spring, pipe hanger or cutting of any pipe.</p> <p>Exclusion zone in place.</p>	1	1	1	YES
Falling & Flying Debris	Personal injury Striking structures	Operatives Third parties STDC operations	2	2	4	<p>Banksmen will patrol the perimeter of the working area external to the exclusion zone to ensure that there is no encroachment by third parties. Should any encroachment be spotted the banksmen will immediately inform the supervisor in charge of the works who will cease operations until the problem is solved.</p> <p>The works in this package are up to 7m high maximum, the conveyor sections will be demolished by lowering structures to ground level in manageable sections and processing at lower level reducing the likelihood of flying debris</p> <p>Under no circumstances will operatives be allowed to work above or below each other thus removing the risk of accidents resulting from impacts from falling materials.</p> <p>Manual work is limited, the structures will be demolished via excavator machines.</p>	2	1	2	YES
Flammable Substances	a. Diesel Fuel b. Timber c. Oils d. Residual / Hydrocarbons	Operatives Third parties STDC operations	3	3	9	<ul style="list-style-type: none"> No smoking within the area. No storage of redundant flammable materials generated from the demolition within buildings, always store in well-ventilated areas. Position fire extinguishers / pressure washers in adequate numbers at all locations where flammables are stored or found/situated. Supervisor to ensure timber stockpiles do not build up Personnel gas monitoring carried out during hot works <div style="text-align: right;">   </div>	2	2	4	YES

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