

Site Survey - Risk & Method Statement - V4

11/07/2024 / Cross Rental / GEM /
Queensborough Terrace / 300kw boiler and
DHW PHE

Contract/Ref number.	0800000138
Contract start date. (Usually the same as delivery date)	11/07/2024
Area	West London
Customers account name:	GEM
Quote as (Account held with).	Cross Rental
Sector:	Non-Assigned
Project Name (Possibly building name):	Queensborough Terrace
Main piece of equipment:	300kw boiler and DHW PHE
Survey conducted on:	08/07/2024
Prepared by:	Steve Vaughn
Reviewed by/date (internal project team):	James Carter 9/7/24
Amended by/date (internal project team):	
Survey ref:	V4.1Survey-002228

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Disclaimer

Cross Rental Group is a company name that includes All Seasons Hire (ASH), Cross Rental Services (CRS), and Acclimatise. The details contained within this document hold the merit of which ever company the survey is being conducted for.

The assessors believe the information contained within this risk assessment report to be correct at the time of printing. The assessors do not accept responsibility for any consequences arising from the use of the information herein. The report is based on matters which were observed or came to the attention of the assessors during the day of the assessment and should not be relied upon as an exhaustive record of all possible risks or hazards that may exist or potential improvements that can be made.

Information on the latest workers compensation and OHS / WHS laws can be found at the relevant State WorkCover / WorkSafe Authority.

2) QUOTABLE ITEMS

Urgency/requirement of quote/RAMS.

Urgent QRF & RAMS (PO expected same day)

3) SITE ACCESS & SAFETY DETAILS / Working times and induction.

Site induction required.

Provided by customer on arrival if required.

3) SITE ACCESS & SAFETY DETAILS / Working at Height (WaH)

Any work at height.

Yes

4) TRANSPORT / VEHICLE ACCESS SURVEY / Delivery/Collection Information:

Is there an access gate to pass through.

Yes

5) EQUIPMENT INSTALLATION SURVEY / Heating (Boiler) survey: / Gas, flue & exhaust Requirements:

Natural gas (NG) required.

Yes

5) EQUIPMENT INSTALLATION SURVEY / Heating (Boiler) survey: / Gas, flue & exhaust Requirements:

Who is purge & testing the gas supply.

Cross Group/CRS

5) EQUIPMENT INSTALLATION SURVEY / DHW equipment Survey.

Will the customers DHW secondary return pump stay online.

No

DHW PHE skid required complete with return HWS pump.

5) EQUIPMENT INSTALLATION SURVEY / DHW equipment Survey.

Is there an existing pressure regulating valve in place.

No

5) EQUIPMENT INSTALLATION SURVEY / DHW equipment Survey.

Dose the customer have an existing pressure relief valve in place.

No

1) SALES & QUOTE DETAILS

Scope of RAMS.

Hire period. (Number of Weeks)	12
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Delivery date.	11/07/2024
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Customers Sales Contact Details.

Customer sales contact name.	Ray Cunningham
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Customer sales telephone number.	07852 102874
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Customer sales email:	ray.cunningham@gemebs.com
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Site Address & Site Contact.

Include all site locations that might be relevant, i.e. different locations for main gate and equipment drop off.

Site addresses and locations.

Site location	W2 3HA
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Is the site contact the same as the customer sales contact.	YES
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2) QUOTABLE ITEMS

Urgency/requirement of quote/RAMS.

Urgent QRF & RAMS (PO expected same day)

Equipment Items:

Equipment pricing matrix.

Key Account

Main Equipment selection

Heating/Boiler

DHW

Type of Boiler

300kw Condensing Gas Boiler

GAS Boiler size and Type	RUNNING CURRENT	PLUG TYPE	OUTPUT HEATING	Pump Capacity	Water connections Flow
300kW Hire Heat Gas Condensing Boiler	9 Amps	16A 1PH 3 pin BS4344	300kW	46 m3/hr	PN16 DN80
Return	flue height	flue clearance	dimensions (W x D x L)	weight	handling options
PN16 DN80	2.9m	2m	1940 x 800 x 1300mm	1100kg	Fork Pockets /Pallet Truck

Other main equipment:

300kw DHW PHE

Electrical cables & distribution boards:

2 x 25m 16a 1ph cable

Hoses (All HTG & DHW + S/braided gas):

3 x 5m PN16 DN80 Hose

10 x 5m 2" FG storz Hose

5 x 5m 1" FG Storz hose

Who is completing the enabling works:

Customer

Site security equipment.

Heras fence panels.

0

Pedestrian gates.

0

CAP packs

CAPp contain all the components, ancillaries and parts required to complete the installation. Packs include non-asset'd items like gas track, filling hose, fittings Inc. valves, levelling & disposables.

NOTE FOR PICKING:

- 1) Storz hose - Storz clamps (2 more than the number of hoses) must be included.
- 2) Bauer hose – Bauer pins (2 per hose) must be included.

Pack type. 3# - Gas (300 – 600kw Boiler)

25m 1/2" filling hose
1 x 25m 2" Gas trac hose
2 x 2" Gas Auto Flares
1 x 54mm Compression to 2" FG Storz adapter
1 x 2" MBSP to 2" FG Storz adapter
1 x 1" MBSP to 1" FG Storz adapter

Fuel requirements.

Fuel required.

Fuel not required

Telemetry requirements.

Telemetry type.

Not required

Any other equipment:

Labour Items:

On site Supervision:

The Cross Rental/Cross Group team will be the onsite supervision for the duration of the works.
For all other information contact the main office - 0800 082 8001.

Installation labour:

NOTE TO SURVEYOR - All working at height must include 2 operatives, including spotting a ladder.
The customer can provide supportive labour if required but this must be agreed on in advance.

On-site Project Manager required in addition to lead Engineer.

No

Installation/Commissioning to happen on same day as delivery.

Yes

Number of Engineers required for installation.

1

Number of days required for Engineer to install.

1 Day

Number of installers required for installation.

1

Number of days required for installer to Install.

1 Day

Is the customer providing supportive labour to help with the installation work

No

De-installation labour:

Should the de-installation labour mirror the installation labour.

YES

If the customer has provided supportive labour for the install, it should be presumed that the customer will also need to provide labour to help with the de-install.

Delivery / collection items:

Delivery:

Do you want to specify a delivery time.

AM

Delivery vehicle / lift & Shift equipment.

Delivery vehicle / lift & Shift equipment.

Rigid lorry - With HIAB (Standard)

Hire Heat Hi-Ab & pallet truck

Collection:

Should the collection vehicles / lift & Shift equipment mirror the delivery.

Yes

3) SITE ACCESS & SAFETY DETAILS

Working times and induction.

Accreditation and ID required for accessing site / carrying out the work.

Photo ID

Gas Safe

Site working times.

8am to 5pm

Site induction required.

Provided by customer on arrival if required.

Engineers vehicle and tools:

Is parking available for the installation team.

Yes

All equipment used on site will fall under the Provision and Use of Work Equipment Regulations 1998 (PUWER). Only hand tools will be used, and any power tools will be battery powered. Tools will be:

- Suitable for use, and for the purpose and conditions in which it is to be used;
- Maintained in a safe condition for use, so that people's health and safety is not at risk; and
- Inspected, in certain circumstances, to ensure that it is and continues to be safe for use.

Working at Height (WaH)

Work at height means work in any place where, if precautions were not taken, a person could fall a distance liable to cause personal injury. You are working at height if you work above ground/floor level or at ground level where there is a risk of falling beneath. This includes fitting a boiler flue.

Engineers must ensure working at height is not done alone. If this is unavoidable, constant communication is required with a person of responsibility. Either ask another onsite operative to spot you or phone a colleague to make them aware for the duration of the task.

Any work at height.

Yes

If 'Yes' provide details of working at height.

High level pipe work to be run.

Height to be worked at. (M) (This should be the height an operative could fall from not the reach height)

2

Equipment required for working at height.

Engineers step ladder (Carried by Engineer)

Engineers steps are suitable for tasks requiring a standing working height of approximately 1.5m.

Permits required for working at height.

Provided by customer if required.

Asbestos (ACM):	
Does the customer have an available asbestos register.	Yes
Any known signs of asbestos in the working area.	No
Site PPE Requirement	
What is the site PPE Requirement	Basic 3 point PPE: (Hi-Viz, Boots & Bump Caps)
Equipment positioning, levelling & ground protection:	
Equipment laydown / compound area.	Hard ground - even.
Is levelling required.	Not required
Ground protection required.	Not required
Heras fence compound required.	Not required
Draw a P & ID/Layout drawing:	

4) TRANSPORT / VEHICLE ACCESS SURVEY

NOTE: Photos must include how the equipment is to be positioned (i.e., include which direction the chiller control panel or boiler flue should be facing.)

Delivery/Collection Information:

Transport Setting up/unloading area. (Photo)



Photo 1



Photo 2

HIAB Required.

Yes

NOTE:

Reach = the distance from the unloading area to the equipment placement.

Height = the distance from the ground to the underneath sitting height of the equipment or the highest point that the equipment will need to be lifted over.

HIAB Reach (m) 2

HIAB Lift height (m) 2

Is a road closure required.

No

Are there yellow/red lines or prohibitive signage in the unloading area.

No

Is there an access gate to pass through.

Yes

Gate width (m) 3.2

Gate height (m) 4

Photo of access gate.

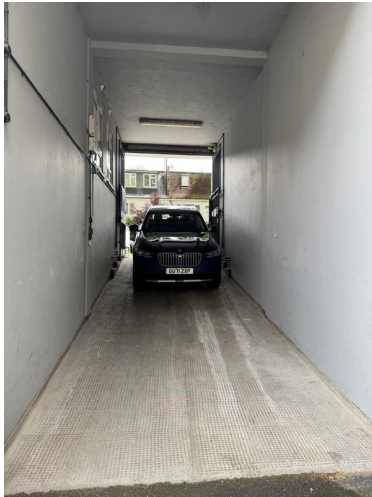


Photo 3



Photo 4

Overhead power lines.	No
Overhanging Trees. NOTE: Include photos of any trees encroaching on the setting up area that could hinder the transport from being able to setup and unload.	No
Other overhead obstacles. NOTE: This could include things like balconies or over hangs that could impact how the equipment is lifted into position.	No
Underground services / inspection chambers. NOTE: underground services and inspection chambers can infringe on where a lorry can setup with its outriggers.	No
Excavations / Soft ground.	No
Access restrictions.	No
Any minimum width restrictions or areas that could be problematic. NOTE: A standard lorry is 2.9m wide, so the minimum width should be no less than 3m.	No
Height restrictions. NOTE: The minimum height required for a standard lorry is 4.2m. for areas where clearance can't be achieved, a specialist survey may be required.	No
Are there any turning issues. NOTE: Can the lorry easily turn onto site and into position in a single manoeuvre. Will the lorry be able to leave site without having to reverse.	No
Any other pictures of access for transport. NOTE: Pictures should include to & from site illustrations.	



Photo 5

Other transport information.**Onward positioning of equipment.**

Different types of lift & shift equipment can only operate on certain types of terrains and conditions. EXAMPLE: A pallet truck can only be used on hard flat ground, and any dips or potholes would stop it from being pushed/pulled. A FLT can't be used on soft ground without trackway.

Will the equipment be positioned by the main delivery vehicle, I.e will a HIAB be positioning the equipment directly.

Yes

5) EQUIPMENT INSTALLATION SURVEY

Select all "Scope of surveys" that are required. I.e. boiler & DHW if the application is for heating and hot water.

Scope of survey.

Heating/Boiler

DHW

Heating (Boiler) survey:

NOTE: All boilers will require a cold water connection with a 1/2" hose tail for initial fill and/or permanent pressurisation.

Do you want to specify flow/return temperatures.

NO

System type (open-vented or pressurised).

Pressurised

Permanent system pressurisation required throughout.

Yes

Will pressurisation be maintained from within the hire equipment's integrated PU.

No

Details of how system pressurisation will be maintained.

Customers PU.

Is the customers system-expansion staying online.

Yes

What is the required system working Pressure (Bar)

1.5
From 0 to 10

Gas, flue & exhaust Requirements:

Natural gas (NG) required.

Yes

Gas supply type to be installed.

Tracpipe

Length of gas TracPipe run. (m)

20
From 1 to 100

ALL GAS PIPEWORK INSTALATIONS LONGER THAN 6M WILL REQUIRE THE CUSTOMER TO ARANGE THE CONNECTION OF THE SUPPLY TO THE BOILER.

Who is purge & testing the gas supply.

Cross Group/CRS

For gas TracPipe lengths exceeding 6m the customer must hold responsibility for purging and connecting the supply to the boiler prior to CRS commissioning

Boiler flue and/or generator exhaust required.

Boiler Flue - Standard

Available distance from flue terminal to any openable windows & doors. (m)

20

Flue terminals must have the minimum clearance from any openable windows, doors and openings into buildings. The minimum clearance should also be adhered to when considering vents, ducts, air intakes and over-hang's.

EQUIPMENT POSITION AND SETTING OUT

Photograph where boiler is to be positioned.



Photo 6

Photos of where the hoses will be run.



Photo 7



Photo 8



Photo 9



Photo 10

Photograph equipment connections, pipework & enabling works.



Photo 11

Photo of access point/aperture for accessing the plantroom.

Customer to remove existing flue pipes for point of penetration



Photo 12



Photo 13

DHW equipment Survey.

Connections required.

DHW-Flow	DHW-Return	CWMS
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Photo of DHW-flow connection.

2" male BSP supplied by customer

Photo of DHW-return connection.

1" male BSP supplied by customer

Will the customers DHW secondary return pump stay online.

No

DHW PHE skid required complete with return HWS pump.

Photo of CWMS connection



Photo 14

Customers CWMS pressure (Bar)

3

From 1 to 10

Systems with a working pressure greater than 3bar must include a pressure regulating valve.

Will a DHW PHE and/or buffer vessel be provided by ASH/CRS.

DHW PHE

Photo of where the PHE will be positioned.



Photo 15

Is the cold water make-up for the DHW pressurised or tank fed	Pressurised
Is there an existing pressure regulating valve in place.	No
Dose the customer have adequate DHW expansion in place.	Yes
The customer must hold responsibility for adequate expansion; ASH/CRS will provide adequate internal expansion only unless otherwise quoted.	
Dose the customer have an existing pressure relief valve in place.	No

6) POWER & WATER

POWER:

NOTE TO CUSTOMER: Where a commando socket is required, it must be a BS4343 type (5-pin for a three phase and 3-pin for a single phase socket) unless specified otherwise.

Is required power already installed/available.	No
Who is providing/installing the power.	Customer
Power source required/to be supplied.	Commando socket
Quantity of power sockets required.	1
Commando socket 1.	16A-1ph (230v)
Distance of equipment from the electrical supply 1.	20 metres

Photo of commando socket 1 location.



Photo 16

Who is supplying the power cables.	Cross Group/CRS
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WATER:

CUSTOMER NOTICE: Water supply's must be in the form of a bib tap or an isolated BSP connection c/w a 1/2" hose tail. The customer is responsible for making sure the water supply is not greater than 3bar and is to be kept available for the duration of the hire.

Water supply required.	Yes
Water supply currently available on site.	Yes
Type of water supply connection identified/ required.	1/2" Isolated BSP connection
Photo of customers water supply.	
Distance of equipment from the water supply.	20 metres
Who is supplying the filling Hose.	Cross Group/CRS

7) METHODOLOGY

Scope of method.

All Hire Equipment.

Client responsibilities and requirements:

Preliminaries:

- A representative to be available on day of delivery to oversee the installation.
- Conduct a site induction for the Cross Group/CRS installation team.

Access / Delivery / Transport / Parking:

- Customer to notify site and advised of the expected Delivery.
- Ensure clear access to and from site for the HIAB vehicle to Deliver the equipment.
- Where applicable; Provide an escort to chaperone the Vehicles/Operatives around the site. (It is the responsibility of the customer to plan and to arrange persons in advance)
- Ensure any obstacles including cars and barriers are clear and any load-bearing restrictions have been accounted for on site.
- Provide an area next to the equipment position area for the Delivery vehicle to set up and Off-Load/Load the equipment.
- Where a HIAB vehicle is used, precautions need to be made for its stabilisers to extend. (2m each side)
- Provide parking for Cross Group/CRS vehicle. This may require parking bays being put out of action by the customer in advance. Parking Fines are chargeable.

Positioning the equipment and special measures:

- The equipment is to be positioned where shown in the photos. Attention needs to be made when positioning equipment that have flues and where the flue distance requirement is in place.
- The area the equipment is to be positioned must be clear at the time of delivery and safely cordoned off from any public and third parties.
- Obstructions should be removed, and provisions made for protecting any underground services.
- It is the customer's responsibility to ensure all necessary precautions have been taken to protect the road, paths, and surrounding area from damage.
- Lifting RAMS available on request.

System requirements:

- Ensure the application above is fit for purpose vs the current system. This includes; Duty, Expansion, Pressure relief valves, operating temperatures, pressures, and the operation of any current pumps. Should any be removed from the system at a later date, amendments may need to be made or to adjust the application accordingly to meet the upcoming requirements.
- Ensure the system is filled, up to the isolation valves being provided.

Fuel: (If Applicable)

- Ensure there is a process in place to accommodate the supply/delivery of fuel for refilling. This may include the notifying of any OOH security/ personnel. An escort may need to be provided to chaperone the fuel deliveries; any aborted visits will be chargeable.
- Fuel Delivery and Transfer RAMS available on request.

Welfare & site safety:

- Removal of any hazardous waste not associated with the installation and de-installation of hire equipment.
- Where applicable; Provide H&S signage, and instructions for areas that are deemed to be out of use during the hire.
- Any making good works following the completion of hire.
- All H+S aspects to protect the public and third parties for the duration of the hire.
- Ramps or containment required for the protection of equipment, ancillaries and third parties when being run across paths and/or pedestrian walkways.
- Welfare facilities ((Regulation 22). (Health, Safety and Welfare) Regulations 1996 (CHSW Regulations)), for the use of any Cross Group/CRS staff working on the mentioned project within this document.
- Where using Containment or supports, it is the customers responsibility to ensure there is adequate support for hoses and any other ancillary's to be supported.

End of hire:

- At the end of the hire, make good any building works and or enabling works i.e. apertures, that have been completed for the installation. This will include arranging for any debris or rubbish that has accumulated around the compound area of the installation. Cross Group/CRS will ensure to remove all installation materials, fittings, and equipment.

Take care and precaution:

At times, hoses and fittings can fail. The customer must take all reasonable precautions to have measures in place so that if an escape of system water should occur it would be contained without causing any impact on the surrounding environment.

Connection and or Enabling works customer to Complete/
Provide prior to delivery are as follows:

Primary Flow Connection(s):

Primary Return Connection(s):

Power Supply(ies):

16a 1ph

Water Connection (Fill):

1/2"

Egress/ Building works:

Provided by customer

Gas Connection:

2" FBSP

DHW Flow:

2" MBSP

DHW Rtn:

1" MBSP

Cold water make up:

54mm copper

Any other Enabling Works:

Provided by customer

Any other task or site specific details not already covered above:

Cross Group/CRS methodology:

Preliminaries/On arrival:

- Arrive on site and contact the site representative.
- Check that all the equipment is present.
- Review the installation with the customer prior to commencing any works so expectations are managed with all parties.
- Ensure enabling works have been complete.

Delivery / Collection / Transport / Parking:

- All equipment is to be Delivered/Collected on a suitable vehicle.
- Park in the area shown in photos and carry out a full visual inspection of site before setting off-loading/loading.
- Fuel (if applicable) can be delivered with the initial equipment delivery or follow on a separate scheduled delivery.

Positioning of equipment:

- Site the equipment in the area, as shown in the photos and by liaising with the customer.
- Set up equipment in the allocated area.
- Position fuel tank(s) no more than 20m from the roadside to allow of refueling, and not closer than 5m to any building structures.
- When installing the Heras fencing ensure to install the access gate to make ease for fuel deliveries.

Installation. - General:

- Ensure hose seals/ Gaskets are clean and undamaged prior to fitting, replace any seals if necessary.
- Attach the hoses to the equipment's flow and return.
- Run the hoses on the hose route shown and connect onto the customer's flow and return connections. – Ensure to run hoses tightly to perimeters where possible, and to pull excess hose to a single area where not to cause trip hazards.
- Where fitting of a boiler flue is required; Use a step ladder and adhere to the 3 point of contact rule while having someone to spot the steps.
- Connect the fuel tank to the equipment making sure all the connections are secure and purge the fuel through.
- Connect the ½" filling hose to the water inlet of the equipment and the other end to the customer's water supply. Secure the filling hose with jubilee type clips.
- Once the filling hose is securely attached, fully open the valve / tap for the mains cold water, followed by the valve that connects the hose to the heating system.
- Leave the valves open until the pressure matches (roughly) the current system pressure.
- In colder months, filling hoses must be tied to heating pipework and or lagged where possible to eliminate from freezing.
- Primary hoses will be tied, clipped, or pinned with their relevant safety and securing method.

Installation. - Filling:

- The equipment, pipework and ancillaries will be filled, vented, purged and leak tested. Once the installed hoses are filled and vented the system valves will be opened.

Installation. - Power:

- Plug the power lead(s) into the Equipment and ensure connected securely and connect onto the customer's supply.
- Ensure not to leave any trailing leads and excess cables do not cause a trip hazard or can be snagged or pulled.

Installation. - Fencing (Where included):

- Set up the Heras fencing, double clipping each panel and fitting the gate in a position that allows good access for refueling. The fence panels must be tied into the building fabric using all-purpose builder's band, or similar product.

Commissioning:

Hire Heat to commission

Boiler

Burner:

1. Carry out site risk assessment and complete relevant documentation.
2. Complete installation pre-commissioning checklist (IPCC.)
3. Check the matching of the burner to the appliance taking into consideration the input required and the combustion chamber resistance to the working field of the burner.
4. Check that the fuel available on site is the correct fuel specified for use with the burner.
5. Carry out a physical check to ensure there is no damage to the equipment.
6. Carry out an electrical check to ensure the relevant site wiring is safe and correct, is fully protected and fused with local isolation.
7. Carry out an electrical check to ensure the wiring from the appliance to the burner is correct.
8. Where required, check to ensure the installation conforms to BS6644:2011, confirming that all required safety valves / vent valves / pressure switches etc. are installed accordingly.
9. Ensure the appliance is ready for use with all thermostats fitted correctly, is filled with water and an adequate heat load is available.
10. Check that the system is filled and is fully operational (pumps running, valves open etc.)
11. If a sealed system is installed, check that the pressurisation unit is operational and that any pressure switches are linked into the control circuit. If the interlocks are not in place, isolate and label the appliance on completion of commissioning.
12. Check that the flue installation complies with current regulations is installed correctly and sound.
13. Ensure that there is sufficient ventilation, either fixed or mechanical, for the plant room. It must conform to current regulations.
14. Open boiler door and check that the burner blast tube hole is correctly packed / insulated. Check that the combustion chamber is clear of any obstructions and that any retarders / baffles are fitted (if required) to manufacturer's instructions.
15. Fuel Supply – Oil: Check that the fuel supply is adequate, filters are fitted, 2-pipe or 1-pipe system is installed correctly. Oil valves turned on, oil purged of air to the burner and is free of any leaks.
16. Fuel Supply – Gas: Check that the gas supply is correctly installed. Pressure drop tests completed; gas main purged with purge certificate if applicable, local isolating gas valve installed adjacent to burner. Any gas booster or other installed interlocks are wired and working correctly.
17. Check the rotation of any 3 phase motors relative to burners or boosters, if supplied.
18. A fault free dry run must be carried out on gas burners prior to commissioning as detailed in IGE/UP/4.
19. Commission the burner to the procedures in the individual burner manuals supplied.
20. Complete, and record, the combustion tests to the figures required by the appliance manufacturer together with those of the burner manufacturer.
21. Carry out required safety and flame failure tests.
22. Ensure boiler thermostats and any relevant burner safety interlocks are operating correctly.
23. Complete the commissioning report document, gaining signatures.
24. Instruct the user or the nominated operator on the operation of the equipment.

System commissioning:

Set the Pressurisation Unit (PU) in accordance to the system requirement.

Check the PU is operating correctly.

Set the Main pump(s) in accordance to the system requirement.

Any other task or site specific details not already covered above:

Decommission & Collection:

Preliminaries:

- Arrive on site and contact the site representative.
- Check the condition of the equipment.
- Check how the equipment is operating and the temperatures of the system.
- Check the system operating pressure prior to releasing any pressure and set up accordingly means to vent and depressurise the system.

Temperatures:

- Ensure the temperature of the system is of a safe working handling temperature.
- To reduce the system temperatures, it may be necessary to isolate the burner and leave the main circulation pumps circulating. In cases this is not possible, isolate the burner and pumps and allow the temperatures to fall naturally.

Isolation:

- Check the power supply and isolate at the main power supply.
- Remove the power lead from the supply and the hired equipment, coil up and place with the equipment for collection.
- Isolate the isolation valves that meet the temporary system to the customers system.

Depressurising:

- High pressure systems will be controlled via the drain valve to ensure the area the system water is being expelled, is clear of persons and materials that could become damaged.

Draining:

- The system will either be drained directly to the floor at the temporary plant or with a drain hose to the nearest drain.
- Once the system has been depressurised and drained, any remaining water in the hoses will be directed to an outside area.
- Where glycol and other additives have been used and where draining to a drain or the floor is not permitted or possible, draining is to be via a suction/delivery pump and the system mix will be transferred into a relevant IBC container.
- Any spills are to be cleared as soon as possible as to not cause damage or a hazard. Spills consisting of chemicals i.e. fuel, will be reported to the site supervisor and cleared appropriately, also refer to; Fuel Transfer RAMS if applicable.

Disconnection:

- Hoses will be disconnected individually and coiled.
- BSP and flange adaptors will be removed from the connection points. Unless specified, It's the customers responsibility to make good open fittings/ends and fit; caps, plugs, blanks thereafter.

Housekeeping:

- Hoses, cables, fittings, and ancillary equipment used will be placed with the main temporary equipment coiled, ready for lifting/collection.
- Assurance will be made that equipment will not hinder site movement and cause a hazard.
- Ensure to check the site for materials and debris from the installation are collected and cleared away as appropriate.
- Due to H&S, rubbish accumulated in and around compounds are customer responsibility to arrange to be cleared.

Lifting/Collection: (Also refer to the above: Delivery / Collection / Transport / Parking section)

- Assist the collection team with lifting/loading the equipment on to the relevant collection vehicle.
- Assist the collection team with manoeuvring off site where and if necessary.

8) RA & Sign-off

Could a full site survey been completed. (if No provide details)

Yes

Damage Waiver

Damage Waiver is designed to protect our customers from charges that may arise in the event of damage to Cross Group/CRS equipment whilst on hire. Loss, Misuse or malicious damage are not covered.

Damage Waiver is added to all hired equipment, customers must request to opt out in writing prior to placing orders. Damage waiver is charged at 10% of the overall hire rate of the equipment on hire.



Sections

- **Section 1 – Risk Evaluation**
- **Section 2 – Additional Control Measures**
- **Section 3 – Reference Documents**
- **Section 4 – Notes and Scoring Matrix**

Management Unit:	Cross Rental Services	Location: (Site/Building)	Customer Sites (Various Locations)
Risk Assessment Ref: <i>(OHSE Manager only)</i>	CRS RA 003	Risk Assessment Title:	Temporary Boilers, Chillers, AHU
Assessment Date:	28 Feb 24	Review Date:	28 Feb 25
Assessors Name:	Malcolm Cook	Job Title:	OHSE Manager

Risk Assessment Description: Installation, commissioning, decommissioning and breakdown attendance of temporary boilers on customer sites.

Section 1

Ser	Activity	Who might be harmed?	Hazards Identified	Existing Control Measures	Accepted Measures? Yes/No (If no, go to Section 2)	Risk Evaluation (Consequence and likelihood)			Risk Rating
						C (1-3)	L (1-3)	Overall (C x L)	Low, Medium, High
1	• Working from height	• Staff • Contractors • Public	• Falling from ladder or stepladder. • Falling equipment. • Trapped limbs. • Falling from MEWPs equipment.	<ul style="list-style-type: none"> • All ladders must have in date ladder tags. • Ladder safety training is carried out. • Toolbox talks are delivered at regular intervals. • PPE to be worn (hard hats required when underneath persons working at height). • All MEWPs are required to have current and in-date certification of inspections. • All personnel must wear a harness with arrest fall restraint prior to going on MEWPs. • All harnesses/arrest fall restraint must have been inspected within 12 months of use. • All inspections must be carried out by a trained and competent person. • Barriers to be erected if using any lifting equipment (including MEWPs). • Only IPAF and/or PASMA qualifications are acceptable training prior to use of mobile platforms or MEWPs. • Must have a minimum of two people working on site where there are any platform based work. • High visibility vests are to be worn at all times. • Barriers erected when moving equipment. • Banksman must be deployed prior to any reversing. 	Y	2	1	2	L
2	• Working in occupied areas.	• Staff • Contractors • Public	• Moving of equipment. • Accidental collisions.		Y	2	1	2	L

Ser	Activity	Who might be harmed?	Hazards Identified	Existing Control Measures	Accepted Measures? (If no, go to Section 2)	Risk Evaluation (Consequence and likelihood)			Risk Rating
						C (1-3)	L (1-3)	Overall (C x L)	
				<ul style="list-style-type: none"> No unauthorised personnel allowed to enter operating area. 					Low, Medium, High
3	<ul style="list-style-type: none"> Electrical hook up to mains supply 	<ul style="list-style-type: none"> Staff Contractors Public 	<ul style="list-style-type: none"> Fire Electrical burns. Live cables. 	<ul style="list-style-type: none"> Only competent and trained personnel are able to connect to electricity. Safe earthing of electrical cables and equipment. Barriers in place to prevent unauthorised people entering. Correct five-point PPE is to be worn at all times. Use of proper tools and equipment and they are serviceable. Full understanding of RAMS prior to work commencing. Full understanding of fire evacuation drills on site. Ensure dead test is carried out prior to any work with electrical components during repairs and servicing. Constant communication with line managers throughout installation. POC on site to inform them of lone working. Communication plan in place prior to any work being carried out to ensure regular contact with other reliable person. 	Y	2	1	2	L
4	<ul style="list-style-type: none"> Lone working. 	<ul style="list-style-type: none"> Staff 	<ul style="list-style-type: none"> Injury to self. Unconsciousness. 	<ul style="list-style-type: none"> Correct PPE to be worn at all times including non-slip shoes. All spillages are to be cleaned immediately. Site POC for non-staff spillages. Report any damage to site representative. Housekeeping of all tools and equipment. All walkways are free from debris, rubbish and other objects. Adequate lighting needs to be available for all attendances to a temporary boiler. 	Y	1	1	1	L
5	<ul style="list-style-type: none"> Slips, trips and falls. 	<ul style="list-style-type: none"> Staff Contractors Public 	<ul style="list-style-type: none"> Injury to body Bumps, bruises, cuts, abrasions, grazes Lack of lighting leading to injury. 	<ul style="list-style-type: none"> Full induction for all personnel upon entering a customer site. Full brief and understanding of all H&S requirements for site. Dynamic risk assessment carried out by competent person to include asbestos awareness. Fire evacuation and muster points understood. Carriage of own first aid and fire equipment. Safe barriers in place to protect other people entering work space. Full understanding of security risks. Wearing of PPE is essential if there is potential exposure to dust. Safe distance of all people when there is any construction occurring. All staff is to be aware of any loud or continuous noise pollution and work away from it if possible. PPE ear defence is required and training provided where there is excessive noise above the WEL. 	Y	2	1	2	L
6	<ul style="list-style-type: none"> Working on site 	<ul style="list-style-type: none"> Staff Contractors 	<ul style="list-style-type: none"> Injury Fire Dust inhalation Noise pollution 						

Ser	Activity	Who might be harmed?	Hazards Identified	Existing Control Measures	Accepted Measures? Yes/No (if no, go to Section 2)	Risk Evaluation (Consequence and likelihood)			Risk Rating
						C (1-3)	L (1-3)	Overall (C x L)	
7	• Traffic	<ul style="list-style-type: none"> • Staff • Contractors • Public 	<ul style="list-style-type: none"> • Collision with other vehicles. • Pedestrian collisions • Use of lifting equipment 	<ul style="list-style-type: none"> • Strict adherence to speed restrictions at all times. • Guidance to moving vehicles when reversing. • Control of anyone entering a space where vehicles are being positioned. • Where possible erect barriers to prevent unauthorised persons entering. • All persons must wear high vis clothing. 	Y	2	1	2	L
8	• Pipe Fitting/repairs	<ul style="list-style-type: none"> • Staff • Contractors • Public • Visitors 	<ul style="list-style-type: none"> • Burns from hot water pipes • Hot water scalds from ruptured pipes • Filling pipes becoming loose. • Objects striking people 	<ul style="list-style-type: none"> • Only trained and competent persons can operate. • Five point PPE to be worn at all times (high vis, steel toe capped shoes, hard hat, goggles, gloves) • Water pressure must be monitored at initial commission to ensure it remains in threshold limits. • Water hoses are to be tested prior to use and have correct identification mark. • All pipes and hoses must be fitted correctly (filling hoses use jubilee clips) • People are not to go near pipes when in operation unless absolutely necessary. • All work and repairs on temporary pipes and hoses can only commence when the system is at an ambient temperature. • All pressure is released before opening pipe connections. 	Y	2	2	4	M
9	• PPE/Uniforms	<ul style="list-style-type: none"> • Staff • Contractors • Visitors 	<ul style="list-style-type: none"> • Lack of wearing PPE leads to undue injury. • Burns, scalds, cuts, concussion, trapped fingers, crushing injuries to feet/loes. 	<ul style="list-style-type: none"> • Five-point PPE must be worn on all installations and future servicing requirements: high visibility clothing, steel toe capped boots/shoes, gloves, hard hat, goggles/visor. • PPE must be serviceable. • Managerial checks once a month. 	Y	1	1	1	L
10	• Manual Handling	<ul style="list-style-type: none"> • Staff • Contractors 	<ul style="list-style-type: none"> • Back pain from twisting and bending • MSKI • Shoulder and arm pain • Excessive dust exposure • Electric shocks • Fuel spillages • Unauthorised persons entering workspace. 	<ul style="list-style-type: none"> • Two person lift for anything more than 20kg. • Lifting equipment must be utilised where possible. • Supervisory checks on all manual handling requirements prior to commencing the lifting. • Barriers erected around equipment. • Wearing of sufficient RPE (minimum of FFP3 standard). • Full five-point PPE to be worn at all times. • All electrical points required to be tested upon completion. • Where possible disconnect and turn off equipment prior to servicing and repair. • Only use battery operated tools. • Fire extinguishers and first aid kits need to be within 3m of work location. • Only trained and competent person to carry out the work. • Method statements and safe systems of work are to be followed at all times. 	Y	2	1	2	L
11	• Servicing, commissioning, deinstallation and Repair	<ul style="list-style-type: none"> • Staff • Contractors • Public • Visitors 	<ul style="list-style-type: none"> • Excessive dust exposure • Electric shocks • Fuel spillages • Unauthorised persons entering workspace. 	<ul style="list-style-type: none"> • Barriers erected around equipment. • Wearing of sufficient RPE (minimum of FFP3 standard). • Full five-point PPE to be worn at all times. • All electrical points required to be tested upon completion. • Where possible disconnect and turn off equipment prior to servicing and repair. • Only use battery operated tools. • Fire extinguishers and first aid kits need to be within 3m of work location. • Only trained and competent person to carry out the work. • Method statements and safe systems of work are to be followed at all times. 	Y	2	2	4	M

Ser	Activity	Who might be harmed?	Hazards Identified	Existing Control Measures	Accepted Measures? Yes/No (If no, go to Section 2)	Risk Evaluation (Consequence and Likelihood)			Risk Rating
						C (1-3)	L (1-3)	Overall Risk (C x L)	Low, Medium, High
12	• Disconnection of PIPESHOSSES	• Staff • Contractors • Visitors • Public	• Scalds • Freezer burns • Flying objects • Electric shocks • Slips	<ul style="list-style-type: none"> • All Bauer hoses must be secured using the correct pins or as a minimum ensure the handle is secured to the pipe prior to commissioning. • Depressurisation of all hoses and pipes required before disconnecting • All pipes must be drained and emptied prior to disconnecting. • Equipment must be turned off prior to disconnecting. • Method statement and safe systems of work must be followed at all times. • Full five-point PPE must be worn. • Water drainage must be done in a designated area and avoid emptying onto a public walkway. • Spill kits are required by all engineers. 	Y	2	2	4	M
13	• Emergency Procedures	• Staff • Contractors • Visitors • Public	<ul style="list-style-type: none"> • Fire • Medical emergency • Pollution • Environmental hazards • Explosions • Road traffic accidents • Vandalism • Public disorder 	<ul style="list-style-type: none"> • Site induction from a competent person must be carried out for all site visits to include the following information: <ul style="list-style-type: none"> ◦ Local hospital information ◦ Any environmental aspects needing to be considered ◦ Site specific contact information ◦ Locations to assemble in the event of an emergency ◦ How to raise alarms ◦ Any emergency response procedures specific to site. • Ensure that a communication plan is known for all employees on site and escalation contact with line manager. • Be trained on any isolation valves within the vicinity of work being carried out. • Receive prior training on emergency call out procedures. • Ensure employee work vehicle has a in date fire extinguisher, first aid kit and spill kit. 	Y	2	1	2	L

Section 2

All additional control measures need to be included in the reviewed risk assessment.

Ser	Previous Risk Rating	Additional Control Measures	Appointed Person	Comments	Date Completed	New Risk Evaluation (Consequence and Likelihood)			New Risk Rating
						C (1-3)	L (1-3)	Overall Risk (C x L)	Low, Medium or High
	•	•	•	•					
	•	•	•	•					
	•	•	•	•					

Section 3

All control measures relate to other internal and external documents. These documents are to be used for further information.

Ser	Description	Reference Document(s)
1	• Working at height	<ul style="list-style-type: none"> • HSE Publication INDG 401 – Working at Height • HSE Publication L4455 – Safe Use of Ladders and Scaffolders • HSE Publication INDG 367 – Inspecting Fall Arrest Equipment
2	• Lifting Equipment and Forklift Trucks	<ul style="list-style-type: none"> • Internal LOLER Certificates • TBT 049 – LOLER • HSE Publication L117 – Rider Operated Lift Trucks
3	• First Aid	<ul style="list-style-type: none"> • CRS-FOR-006 – Near Miss and Safety Concerns Form • CRS-FOR-005 – Accident Report Form. • TBT 042 – Eyewash • TBT 045 – Dentriliator • HSE Publication L74 – First Aid at Work
4	• PPE	• HSE Publication L25 - PPE
5	• Manual Handling	• HSE Publication INDG 143 – Manual Handling at Work

Section 4

		Potential consequence of harm		
		1 – Minor Injury (e.g. hazard can cause illness, injury or equipment damage but the results would not be expected to be serious)	2 – Significant Injury (e.g. hazard can result in serious injury and/or illness, over 3-day absence)	3 – Major Injury (e.g. hazard capable of causing death or serious and life threatening injuries)
Likelihood of harm	1 – Unlikely (Injury rare, though possible)	1 – Low	2 – Low	3 – Medium
	2 – Possible (Injury could occur occasionally)	2 – Low	4 – Medium	6 – High
	3 – Probable (Injury likely to occur, can be expected)	3 – Medium	6 – High	9 – Extreme

RISK EVALUATION

This is calculated by multiplying the likelihood against the consequence e.g. taking a likelihood of 1, which is classified as Unlikely and multiplying this against a Potential Consequence of 2, which is classified as Significant Injury, would give you an overall Risk Rating of 2, which would result in an overall evaluation as a low risk.

1 to 2 = Low risk

Low risks are largely acceptable, monitor periodically to determine situation changes which may affect the risk, or after significant changes

3 to 4 = Medium risk

Medium risks at the upper end of this band should only be tolerated for the short-term and then only whilst further control measures to mitigate the risk are being planned and introduced, within a defined time. Risks on the lower end should be reduced if practicable.

6 = High risk

High risks activities should cease immediately until further control measures to mitigate the risk are introduced. The continued effectiveness of control measures must be monitored periodically.

9 = Extreme Risk

Work should not be started or continued until the risk has been mitigated. Immediate action is required to reduce exposure. A detailed mitigation plan must be developed, implemented and monitored by senior management to reduce the risk before work is allowed to commence. Senior Management Team are to be notified IMMEDIATELY

Authorisation

I can confirm that I have read and understood the contents of this risk assessment and method statement.

Signed: Date:

For and on behalf of Cross Group/Cross Rental Services

Signed: Date:

For and on behalf of

This risk assessment and method statement is to be signed and returned to Cross Group/Cross Rental Services prior to any work being undertaken.

Any amendments to this risk assessment and method statement must be confirmed by the Cross Group/CRS technical team prior to any work commencing.

Amendments should only be made by hand and the alterations should be signed and dated by the Cross Group/CRS on site supervisor.

Any amendments should be emailed to rams@crossrental.co.uk prior to any works commencing.

9) END OF DOCUMENT

Media summary



Photo 1



Photo 2

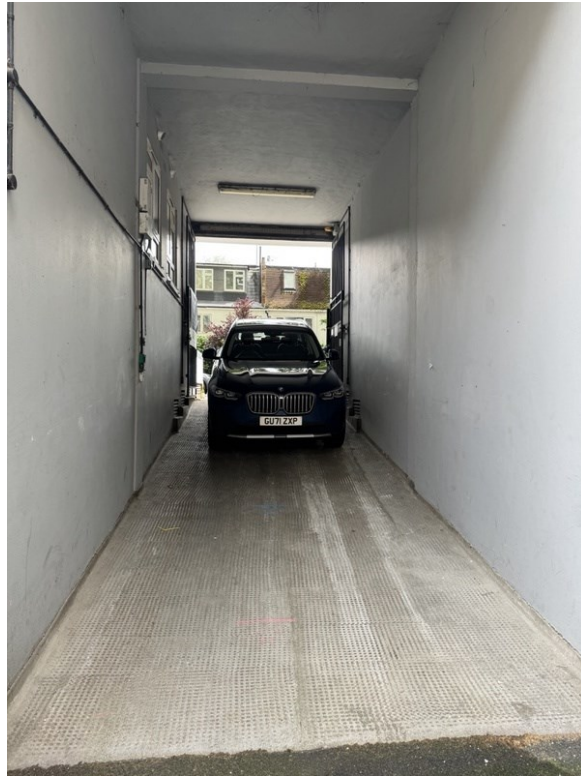


Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8



Photo 9



Photo 10



Photo 11



Photo 12



Photo 13



Photo 14



Photo 15



Photo 16