

1.0 Management Systems Supplemental Information

1.1 Site Operations

Site operations are detailed in Section 4.0 of the original application supporting document. additional information is present within the Environmental Risk Assessment.

Generators are to be tested once per month, typically for 30 minutes but could be up to 1 hour if required. Generators will be tested individually, typically between 08:00 and 18:00 on weekdays only, though depending on emergency maintenance or testing requirements these hours may be exceeded on occasion.

1.3 Site and Equipment Maintenance Plan

The has a contract with the original equipment supplier for maintenance to the generators following manufacturer's specifications. This includes lifespans for coolants, lubricating oil, filters etc.

Each generator and associated equipment will have documentation maintained for it on an individual basis, including maintenance and servicing, parts replacement and operating hours. All maintenance and testing will be carried out by suitably qualified engineers following manufacturer's recommendations.

1.11 Dealing with Complaints

Complaints management processes are included within the Noise Management Plan and Odour Management Plan. These include recording and responding to complaints as well as management and escalation processes to be followed in the event of a complaint. These procedures will be reviewed annually or in the event of a complaint.

1.12 Adapting to Climate Change

The following climate change scenarios are considered important to the Combustion Sector. Typically these will be significant issues to the operation of a commercial power station or a large combustion plant one operating continuously for extended periods. As the data centre will operate for short periods only, these are not expected to significantly impact the operations.

Summer daily maximum temperature

This may be around 7°C higher compared to average summer temperatures now.

The generators are air cooled. There could be localised issues relating to the operation of the generators during periods of high air temperatures, but the selected generator (Kohler KD4500-E) has a high temperature capacity able to operate without derating the power. The units are able to operate with a maximum inlet fuel temperature of 70°C.

The risk from fire is mitigated through the individual containerising of the units, with shutoff from fuel supplies if fire is detected.

Testing operations will be limited where possible during high temperatures, while still undertaking essential testing. The short period of testing should limit issues associated with extended operation during hot periods.

Winter daily maximum temperature

This could be 4°C more than the current average with the potential for more extreme temperatures, both warmer and colder than present.

An increase in daily winter maximum temperatures of 4°C is not considered to represent a risk to the operations of the data centre, nor present an increased risk of an accident/incident.

Daily extreme rainfall

Daily rainfall intensity could increase by up to 20% on today's values.

While an increase in rainfall, the site drainage systems have been constructed using standards current as of 2022 and taking into account peak rainfall events. Generators are raised above ground level so will be unaffected by flash flooding. The diesel bulk tank farm has sufficient containment with management controls to prevent rainwater accumulating, including oil water separators when emptying the bund. Bund alarms are included to detect product and water levels. The underground fuel lines will remain unaffected.

Given the relative elevation of the site above the adjacent railway line, localised site flooding is not considered significant. Additionally, rainwater attenuation storage systems are in place beneath the car park areas.

Drier summers

Summers could see potentially up to 40% less rain than now.

The facility operates a closed loop cooling system which should be largely unaffected by restrictions once filled. These cooling systems are in place for the data centre computer equipment (not part of the regulated activity) and not required for the operation of the air-cooled generators (the regulated activity).

River flow

The flow in the watercourses could be 50% more than now at its peak, and 80% less than now at its lowest.

The facility operates a closed loop cooling system which should be largely unaffected by restrictions once filled. These cooling systems are in place for the data centre computer equipment (not part of the regulated activity) and not required for the operation of the air-cooled generators (the regulated activity).

1.12 Make Sure People Understand What You Do

The site is located within the Slough industrial estate. This is surrounded by industrial and commercial premises for at least 200m in all directions, including other data centres operated by third parties, located immediately adjacent to the east and south of the subject site.

Interested parties are directed to the operating company website at <https://globaltechnicalrealty.com/locations/london-gb-one/>

The non-technical summary of the Environmental Permit application can be provided to interested parties on request.