

## Application SCR evaluation template

(To be completed by NPS, GWCL and EM/PPC officers).

Name of activity, address and NGR	Barking Power Station Chequers Lane, Dagenham Essex RM9 6PF
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Document reference of application SCR	Barking Power Station Site Condition Report and supporting documents (SCR)
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Date and version of application SCR	August 20 v2
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<b>1.0 Site details</b> To be completed by NPS (Source)	
<b>Has the applicant provided the following information as required by the application SCR template?</b>	<b>Response (Specify what information is needed from the applicant, if any)</b>
Site plans showing site layout, drainage, surfacing, receptors, sources of emissions/releases and monitoring points	Yes

<b>2.0 Condition of the land at permit issue</b> To be completed by GWCL officers (Receptor)	
<b>Has the applicant provided the following information as required by the application SCR template?</b>	<b>Response (Specify what information is needed from the applicant, if any)</b>
a) Environmental setting including geology, hydrogeology and surface waters b) Pollution history including: <ul style="list-style-type: none"> <li>• pollution incidents that may have affected land</li> <li>• historical land-uses and associated contaminants</li> <li>• visual/olfactory evidence of existing contamination</li> <li>• evidence of damage to existing pollution prevention measures</li> </ul> c) Evidence of historic contamination (i.e. historical site investigation, assessment, remediation and verification reports (where available)) d) Has the applicant chosen to collect baseline reference data?	Yes – see SCR

<b>3.0 Permitted activities</b> To be completed by NPS officers (Source)	
<b>Has the applicant provided the following information as required by the application SCR template?</b>	<b>Response (Specify what information is needed from the applicant, if any)</b>
a) Permitted activities b) Non-permitted activities undertaken at the site	Permitted activities as per EPR permit. The site was regulated under S1.1 to provide electricity by burning natural gas with gas oil as a back-up in five gas turbines: 1A, 1B, 2A, 2B and 2C, each 425MWth combined gas turbine fitted with DLN - to operate emergency diesel generators (2

### 3.0 Permitted activities

To be completed by NPS officers  
(Source)

<b>Has the applicant provided the following information as required by the application SCR template?</b>	<b>Response (Specify what information is needed from the applicant, if any)</b>
	<p>x 2MWth) diesel-fired stand by generator - to operate of gas water bath heaters (2 x MWth) gas fired water bath heaters</p> <p>Variation V002 of EPR permit added another permitted activity</p> <ul style="list-style-type: none"><li>- Operation of 5.4 MWth auxiliary boiler for raising gland steam for steam turbine start-up</li></ul> <p>Directly associated activities:</p> <ul style="list-style-type: none"><li>- Gas oil storage</li><li>- Steam Turbine Operation (Block 1 and block2)</li><li>- Water Treatment Plant</li><li>- Cooling system</li><li>- Surface water discharges</li><li>-Trade effluent discharge to foul sewer</li><li>- Operation of two diesel fire pumps 1 and 2, 0.24MWth each.</li></ul> <p>No non-permitted activities have taken place on the site.</p>

**3.0(a) Environmental Risk Assessment**

To be completed by NPS officers  
(Source)

The H1 environmental risk assessment should identify elements that could impact on land and waters, cross-referenced back to documents and plans provided as part of the wider permit application.

Environmental Risk Assessment H1 model Final (62) was completed as part of an application for environmental permit in 2006 as per H1 model and accepted by Environment Agency.

**3.0(b) Will the pollution prevention measures protect land and groundwater?**

To be completed by EM/PPC officers  
(Conceptual model)

Are the activities likely to result in pollution of land?

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For dangerous and/or hazardous substances only, are the pollution prevention measures for the relevant activities to a standard that is likely to prevent pollution of land?

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**Application SCR decision summary**

To be completed by GWCL officer and returned to NPS

**Tick relevant decision**

Sufficient information has been supplied to describe the condition of the site at permit issue; or

Information is missing- the following information must be obtained from the applicant.  
(Advise the permitting team on what additional information is needed)

Pollution of land and water is unlikely; or  
(Pollution prevention measures just need to be reviewed during operation of the site)

Pollution of land and water is likely  
(Advise the permitting team on what additional controls/checks may be necessary)

Historical contamination is present- advise operator that collection of background data may be appropriate

Date and name of reviewer

## Operational phase SCR evaluation template

(To be completed by EM/PPC and GWCL officers).

Sections 4.0. to 7.0 may be completed annually in line with normal record checks.

<b>4.0 Changes to the activities</b> To be completed by EM/PPC officers (Source)	
<b>Have there been any changes to the following during the operation of the site?</b>	<b>Response (Specify what information is needed from the applicant, if any)</b>
a) Activity boundaries b) Permitted activities c) "Dangerous substances" used or produced	a) No change to boundary b) Yes. Demolition of Water Bath Heaters, Gas Oil tanks, Water Treatment Plant, five Heat Recovery Steam Generators (HRSG) and two stacks has been completed. Details of the changes are in Changes to Permitted Activities (63) c) No

<b>5.0 Measures taken to protect land</b> To be completed by EM/PPC officers (Pathway)	
Has the applicant provided evidence from records collated during the lifetime of the permit, to show that the pollution prevention measures have worked?	Yes – see SCR

<b>6.0 Pollution incidents that may have impacted on land and their remediation</b> To be completed by EM/PPC officers (Sources)	
Has the applicant provided evidence to show that any pollution incidents which have taken place during the life of the permit and which may have impacted on land or water have been investigated and remediated (where necessary)?	Yes – see SCR

<b>7.0 Soil gas and water quality monitoring (where relevant)</b> To be completed by GWCL officers	
Where soil gas and/or water quality monitoring has been undertaken, does this demonstrate that there has been no change in the condition of the land? Has any change that has occurred been investigated and remediated?	Yes – see SCR

## Surrender SCR Evaluation Template

If you haven't already completed previous sections 4.0 to 7.0, do so now before assessing the surrender.

<b>8.0 Decommissioning and removal of pollution risk</b> To be completed by EM/PPC officers	
Has the applicant demonstrated that decommissioning works have been undertaken and that all pollution risks associated with the site have been removed? Has any contamination of land that has occurred during these activities been investigated and remediated?	Yes – see SCR

<b>10.0 Statement of site condition</b> To be completed by EM/PPC officers	
Has the applicant provided a statement, backed up with evidence, confirming that the permitted activities have ceased, decommissioning works are complete and that pollution risk has been removed and that the land and waters at the site are in a satisfactory state?	Yes – see SCR

<b>9.0 Reference data and remediation (where relevant)</b> To be completed by GWCL officers	
<p>Has the applicant provided details of any surrender reference data that they have collected and any remediation that they have undertaken?</p> <p>(Reference data for soils must meet the requirements of policy 307_03 Chemical test data on contaminated soils – quantification requirements). If the surrender reference data shows that the condition of the land has changed as a result of the permitted activities, the applicant will need to undertake remediation to return the condition of the land back to that at permit issue. You should not require remediation of historic contamination or contamination arising from non-permitted activities as part of the permit surrender.</p>	<p>No specific surrender reference data has been collected, however the applicant has provided detailed management records, including a spill history for the duration of the permitted activity. The records indicate that several spills / released of liquids to ground occurred and that these events were all reported to the Environment Agency who deemed them to be of little concern, not warranting specific remediation.</p> <p>A recent "Phase 1 Contaminated Land Due Diligence" report (RPS ref: JER1584 dated 18 July 2018) was included with the permit surrender supporting information. This document included a detailed description of the site at the time when the permitted activity was ceased and a review of the known ground contamination at the site before the start of the permitted activity. Based on the information provided in this report and the other supporting documents it is considered unlikely that the permitted activity will have caused further deterioration of the soil and groundwater quality beneath the site (already impacted by historical activities in the area).</p>

<b>10.0 Statement of site condition</b> To be completed by GWCL officers	
Has the applicant provided a statement, backed up with evidence, confirming that the permitted activities have ceased, decommissioning works are complete and that pollution risk has been removed and that the land and waters at the site are in a satisfactory state?	<p>Cessation of permitted activity documented in Section 10 of the applicants SCR. Information with respect to decommissioning and demolition activities is provided in the supporting information.</p> <p>The site was also inspected by EA Officer (Howard Tee) after the permitted activity was stopped at the site who has confirmed that all potential sources of pollution had be removed / decommissioned.</p> <p>Based on the information provided I am satisfied that the permitted activity no longer presents a pollution risk land or water and that the permitted activity is unlikely to have caused further deterioration of soil and groundwater beneath the site (already impacted by historical activities in the area).</p>

<b>Surrender SCR decision summary</b> To be completed by GWCL officers and returned to NPS	<b>Tick relevant decision</b>
Sufficient information has been supplied to show that pollution risk has been removed and that the site is in a satisfactory state – accept the application to surrender the permit; or	Y
Insufficient information has been supplied to show that pollution risk has been removed or that the site is in a satisfactory state – do not accept the application to surrender the permit. The following information must be obtained from the applicant before the permit is determined:	Y
Date and name of reviewer	10/12/2020 Keith Spence – Team Leader GWCL HNL