

Noise Management Plan

Site details

Site name: Thurrock Peaking Plant (Site 2)

Site address: Station Road, East Tilbury, Tilbury, Essex RM18 8QR

Operator name: Thurrock Power 2 Limited and Statera Energy Limited

Permit number:

Who this plan is for

This plan is for the operators of the Thurrock Peaking Plant (Site 2)

Document owner

Document author: Peter Barling

Version number: 01

List of revisions

Revision number	Revision authorised by	Date submitted to Environment Agency	Revision owner
01	-	-	-

Contents

1.	Introduction.....	3
1.1	Site description.....	3
1.2	Maintenance and review of the NMP.....	3
2.	Receptors	4
2.1.	Receptor List.....	4
3.	Noise sources and processes.....	6
3.1	Noise impact assessment (NIA) conclusion	6
3.2	Noise sources.....	7
3.3	Overview of noise processes and emissions.....	8
4.	Control measures and process monitoring	10
4.1	Appropriate measures / Best available techniques (BAT)	10
4.2	Onsite monitoring procedures	11
4.3	Monitoring off site sound levels	11
5.	Complaints reporting.....	12

1. Introduction

The Acoustics Team at Savills has been appointed by Thurrock Power 2 Limited and Statera Energy Limited to prepare of a 'noise management plan' (NMP) as part of the 'Environmental Permit' (EP) application for a power generation facility (gas engines with associated plant).

1.1 Site description

The facility will be constructed on land to the north of Tilbury substation and southwest of Station Road in Thurrock, Essex. The site is in a rural area.

Whilst the facility will potentially operate on a 24/7 basis, it is envisaged to primarily only operate during peak periods of electricity demand or to prevent system instability. This would most typically be for a period ranging from one to seven hours per day, between 08:00 and 20:00 hours. However, there is the potential that the facility could be required to operate during a major power shortage or system stress events (e.g. a Notification of Inadequate System Margin) at any time of the day or night. It should be noted that the likelihood of the facility being required to start up at night is extremely low as peak electricity demand does not occur overnight.

Based on operational experience of other similar facilities, for only around 88 hours of the night-time period (23:00 to 07:00 hours) over a year, would the facility operate, i.e. 3% of the night-time period on average.

1.2 Maintenance and review of the NMP

- The facility manager or nominated person is responsible for the NMP and ensuring people.
- The plan stored is in the facility manager's office or nominated person's office.
- The plan is reviewed yearly, or when a substantive noise complaint has been received.
- No specific staff training is required for this NMP.
- The facility manager or nominated person will maintain records of complaints and associated investigations due to noise on site.
- The facility manager or nominated person is responsible for carrying out noise monitoring, if required, and acting on the results of this monitoring.

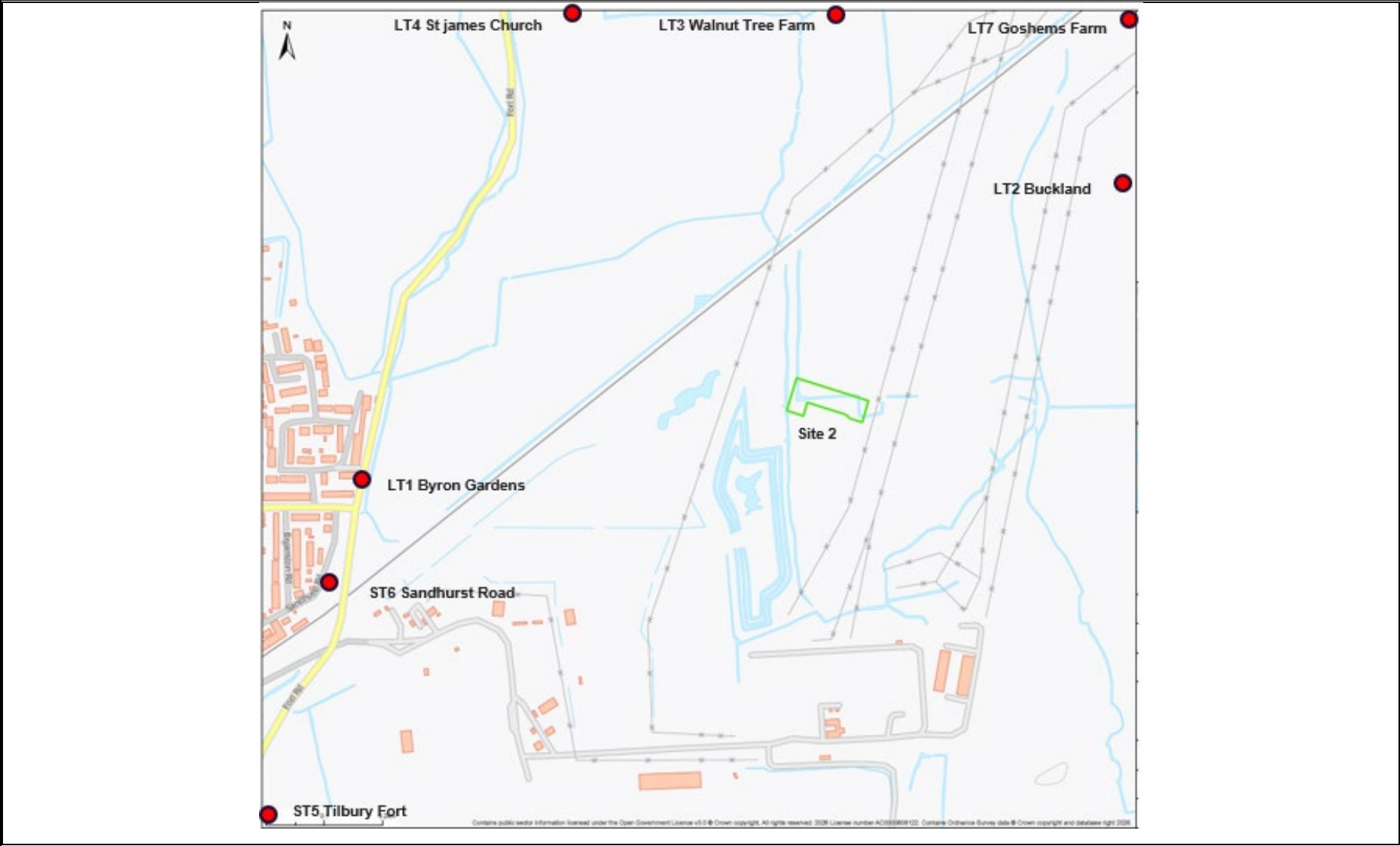
2. Receptors

2.1. Receptor List

Table 2.1. Receptor list

Receptor reference	Land use e.g. house, school, hospital, commercial	Direction from site (north, south, east, west)	Approximate distance to site boundary (m)
01 Byron Gardens	residential	South west	1,400
02 Gun Hill Farm	residential	north	1,300
03 Galsworthy Road	residential	west	1,400
04 Havers Lodge	residential	North	950
05 Buckland	residential	East	1,100
06 St James' Church	residential	North	1,100

Figure 2.1 Map of site location and receptors



3. Noise sources and processes

3.1 Noise impact assessment (NIA) conclusion

- state the overall conclusion of the noise impact assessment (low / below adverse / adverse / significant adverse impact) and the location at which this impact occurs.
- describe any important contextual points
- state which sound sources on site are dominant at nearby receptors

With reference to the noise impact assessment (report ref: 637937_Report03_Rev02, dated 25 February 2026, maximum Rating Levels at NSR locations, i.e. when the facility is producing maximum power, would be up to 1, 5 and 7 dB above the representative background sound level during the daytime, evening and night-time periods, respectively.

However, due to low Rating Levels and resultant ambient sound levels not noticeably changing or being of a magnitude likely to increase the risk for annoyance in external amenity areas or cause sleep disturbance, it is considered that significant adverse impacts would not occur.

Furthermore, the risk for adverse impact during night-time period for is significantly reduced as for only 88 hours of the night-time period (23:00 to 07:00 hours) over the course of a year, would the facility likely be operational i.e. 3% of the night-time period on average. Also, Rating Levels would often be lower than considered, reflecting the reduced power demand.

Consequently, when considering the operation of the facility over the entire year period, the resulting site noise impact would be no greater than adverse, i.e. significant impacts/effects avoided at all NSRs for all time periods, as summarised in Table 3.1 below.

On the basis that significant adverse impacts would be avoided, and adverse impacts minimised (through the application of noise control methods/techniques detailed in Section 7) the proposed development would comply with the 'Noise Policy Statement for England' (NPSE), which sets out the long term overarching vision of Government noise policy.

The noise assessment completed has been based on the facility operating at 100% capacity. No unusual scenarios are anticipated. If any accident, or breakdown occurs resulting in increased noise emissions this will be rectified as soon as reasonably practicable.

Due to the nature of the facility, noise emissions are fixed and outside the control of any individual on a short-term basis. As such no controls or management practices are required in this instance.

Table 3.1. Overall Site Noise Impact

NSR	Overall: Site Noise Impact		
	Daytime	Evening	Night-time
Byron Gardens	Negligible	Minor	Adverse
Gun Hill Farm	Negligible	Minor	Negligible
Galsworthy Road	Negligible	Minor	Adverse
Havers Lodge	Negligible	Minor	Negligible
Buckland	Negligible	Negligible	Negligible
St James' Church	Negligible	Minor	Negligible

3.2 Noise sources

Table 3.2 Description of noise emitting processes

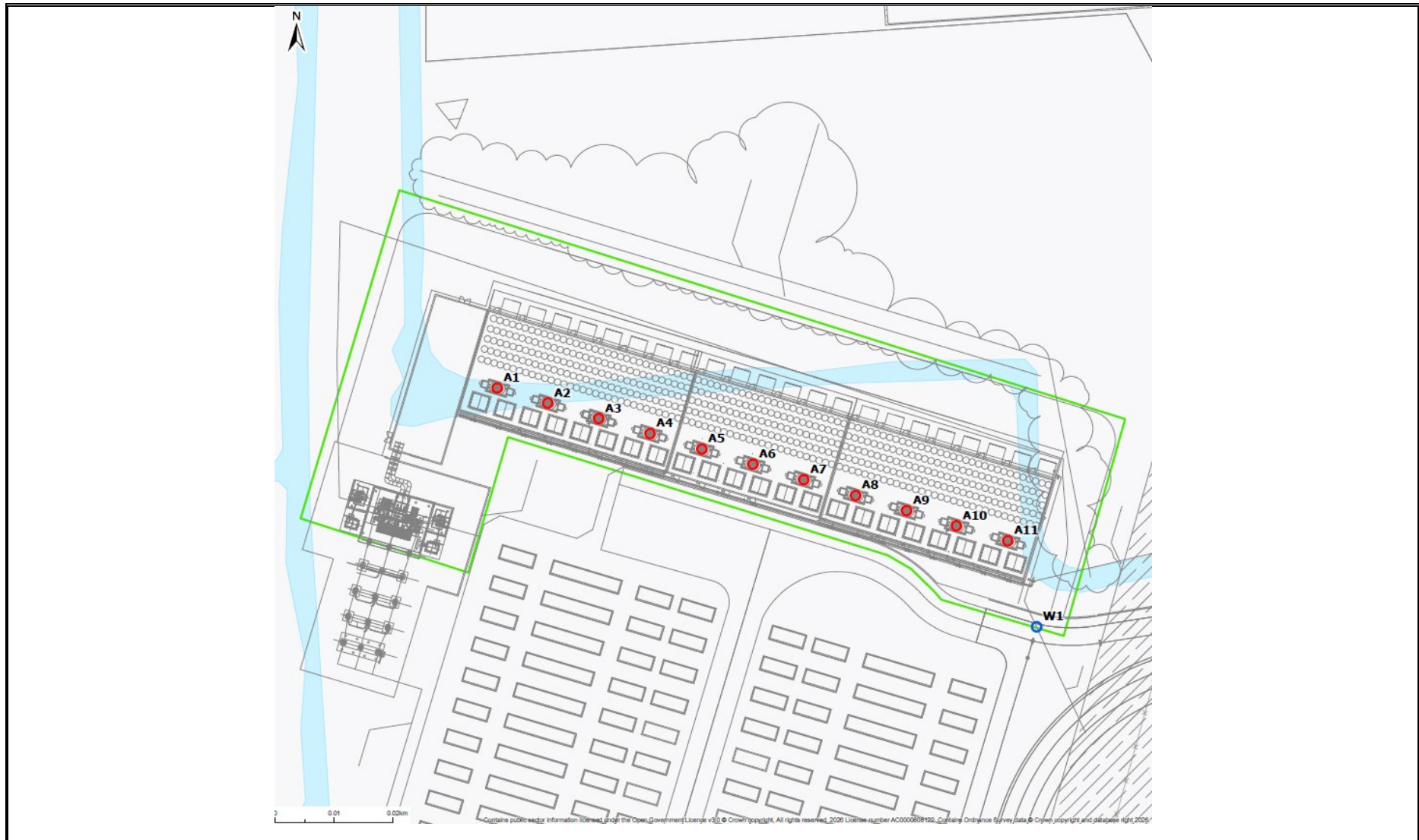
Noise source	Sound power level (dBA)	Sound pressure level (dBA)	Measurement distance (m)	Operational conditions	Additional comments
Gensets	128	-	-		In concrete enclosures 112 dB L _{pA1}
Radiators	90	-	-		On enclosure roof
Ventilation Air Intake Modules	86	-	-		Attenuated systems

Noise source	Sound power level (dBA)	Sound pressure level (dBA)	Measurement distance (m)	Operational conditions	Additional comments
Air Outlet Attenuators	89	-	-		Attenuated systems
Exhaust Stacks	84	-	-		Silenced @ 20 m AGL
Transformer	82	-	-		

3.3 Overview of noise processes and emissions

When required the gas fired gensets, enclosed in concrete enclosures will begin to generate electricity. Exhaust will be to atmosphere via the silenced stacks. The enclosures are ventilated with air intake and air outlet attenuators. Radiators are mounted on the enclosure roof which provide cooling.

Figure 3.3 – Site plan showing locations of noise emitting processes, with routes shown of mobile noise emitting sources



4. Control measures and process monitoring

4.1 Appropriate measures / Best available techniques (BAT)

Table 4.1 Actions and procedures which will be in place to achieve appropriate measures / best available techniques (BAT)

Activity which produces noise	Operational Hours / days	Control measures (Appropriate Measure / BAT)	Contribution to overall impact	Action taken if outside optimum process parameters
Gensets	Potentially 24/7	Concrete enclosures	Medium	Investigate reasons for elevated sound levels.
Radiators	Potentially 24/7	Low noise radiators	Medium	Investigate reasons for elevated sound levels.
Ventilation Air Intake Modules	Potentially 24/7	Attenuated modules	Medium	Investigate reasons for elevated sound levels.
Air Outlet Attenuators	Potentially 24/7	Attenuated modules	Medium	Investigate reasons for elevated sound levels.
Exhaust Stacks	Potentially 24/7	Silenced	Medium	Investigate reasons for elevated sound levels.
Transformer	Potentially 24/7	-	Low	Investigate reasons for elevated sound levels.

4.2 Onsite monitoring procedures

Table 4.2 Description of onsite processes which will ensure impacts do not increase on site.

Description of procedure	Procedure	When will this be carried out?	Corrective action
Subjective impressions	Monthly subjective noise testing	Monthly	If a problem arises, resulting in increased noise emissions, this will be investigated by the facility manager or nominated person and rectified as soon as reasonably practicable. Increased noise emissions will be indicative of a fault or similar with the system, potentially with health and safety risks, that will need to be remedied to ensure safe operations.

4.3 Monitoring off site sound levels

On the basis that the resulting site noise impact would be no greater than adverse, at all NSRs for all time periods, and that noise emissions will not vary due to any change in activity or similar, no routine monitoring is proposed.

5. Complaints reporting

In the event that a noise complaint is received, this will be logged and investigated by the by the facility manager or nominated person. This will be logged in a specific noise complaint document.

Complaints could be received via email or telephone, details will be on the facility boundary

Upon receipt of the complaint the this will be investigated by the facility manager or nominated person and rectified as soon as reasonably practicable. Increased noise emissions will be indicative of a fault or similar with the system, potentially with health and safety risks, that will need to be remedied to ensure safe operations. Any remedial action taken will be logged in the specific noise complaint document.

It is likely that if noise levels have increased this will indicate an issue with the facility, other than just noise related, so this will be rectified promptly. However, if this does not solve the issue off site observation and monitoring, if required, will be undertaken by a competent person. Any monitoring will be logged in the specific noise complaint document.

If deemed necessary, i.e. serious issue, or one that cannot be remedied within 4-weeks the EA will be notified and logged in the specific noise complaint document.

Following the remedial works feedback will be sought from the complainant and logged, and the EA notified if necessary.