
Memo: M014-C

Date: 26 February 2026

Project: O25944

Pages: 3

From: TS

Reviewer: JA

Northern Pathology Development, The Christie

Generator plant noise egress assessment

This memo provides a review of noise egress from the proposed generator at the Northern Pathology Development.

Mitigation measures have been implemented such that the predicted external noise level at 1 m from the facade of the nearest noise sensitive premises meets the typical Manchester City Council emergency plant noise criteria during the day and exceeds by 5 dB at night. The proposed strategy should be agreed with Manchester City Council.

Basis

Generator information

A manufacturer's datasheet for the proposed generator has been provided. It is understood that a Himinsa HPCW-505 T5 unit is proposed. The proposed unit is understood to be housed in an acoustic container with silencer on the exhaust path. The stated sound pressure level of the generator is 73 dBA at 7 m.

From the manufacturer's datasheet, it is understood that the generator is approximately 2.6 m tall.

Generator location

The proposed generator location, based on the iteriad landscape section drawing (NPD-Z1-ITR-G710-SE-XX-O401 rev P01) is shown in Figure 1. The location of the generator is shown in red and the approximate boundary of the nearest noise sensitive premises is shown in blue. This drawing has been used as the basis of the following assessment.

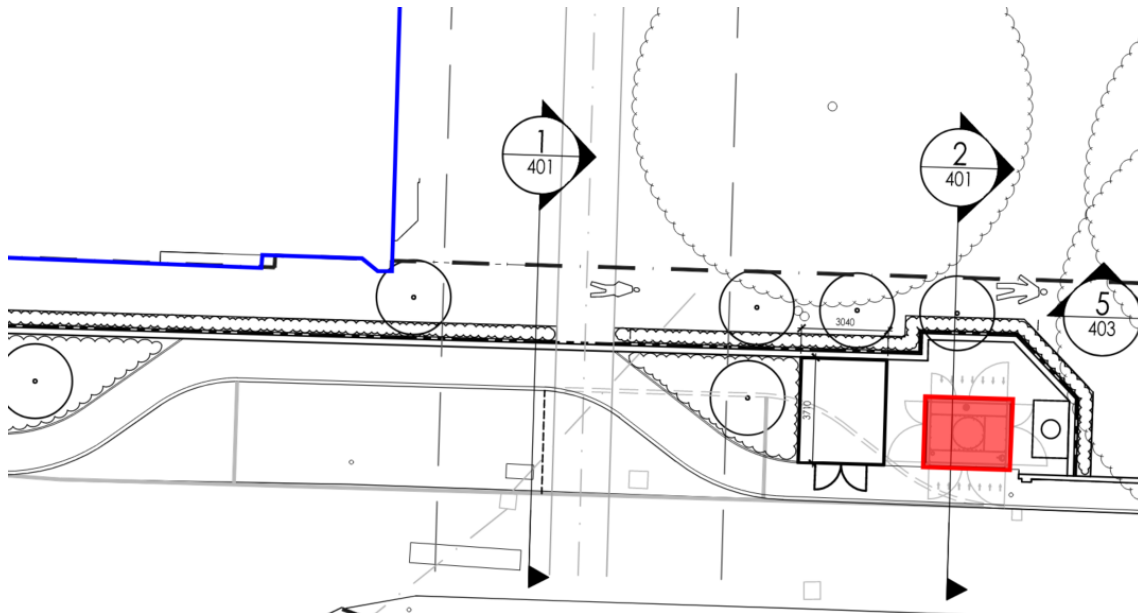


Figure 1 Excerpt from iteriad landscape section drawing

Following discussion with the design team, the bin store and fence close to the generator are to be increased in height to provide sufficient screening, such that the criterion during the day can be achieved. The screen in this location will also need to be acoustically effective, ie solid. The increased screen height is shown on the latest iteriad drawings. An excerpt from the updated landscape section drawing is shown in Figure 2.

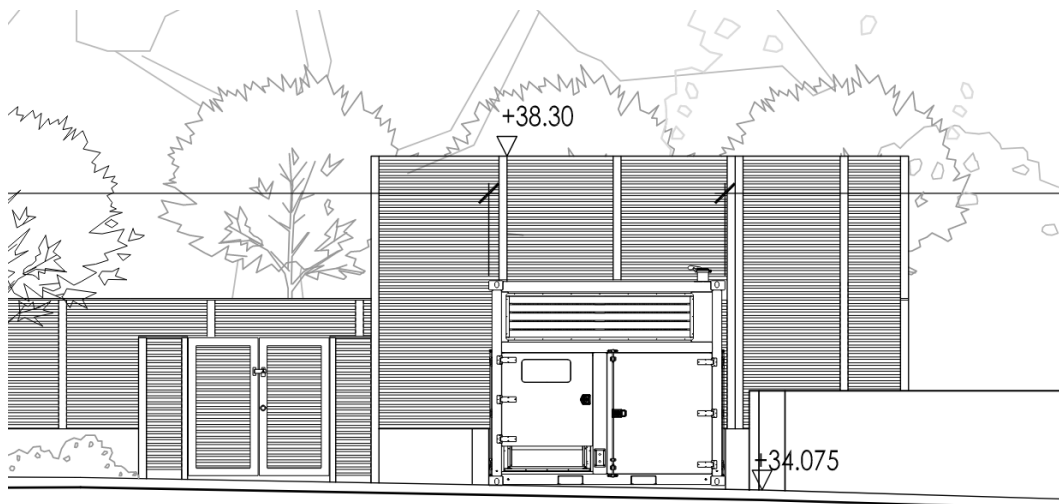


Figure 2 Excerpt from iteriad drawing NPD-Z1-ITR-G710-SE-XX-O405 rev PO3

Acoustic criteria

As set out in O25944-R01-B *Planning noise report*, the following emergency/stand-by plant noise limits apply to the development.

Emergency and stand-by plant would only ever operate briefly in the case of an emergency, power cut, or for routine testing, it is proposed that the noise egress limitations be relaxed for these plant items. Manchester City Council (MCC) typically allow such plant to be limited to be no higher than 10 dB above the background noise level outside noise sensitive receptors (exclusive of receptors within the hospital campus).

Table 1 Emergency/stand-by noise limits at 1 m from the nearest noise sensitive premises (exclusive of receptors outside the hospital campus)

Time of day	Maximum sound pressure level at 1 m from noise sensitive premises, $L_{Aeq,15min}$ (dB)
Day (07:00–23:00)	65
Night (23:00–07:00)	60

Noise from emergency and stand-by plant will be controlled within the hospital demise.

Assessment

The predicted external noise level at 1 m from the facade of the nearest noise sensitive premises from the generator is L_{Aeq} 65 dB, which meets the criterion during the day and exceeds the criterion at night by 5 dB.

Routine testing of the generator is to be carried out during the day only.

Relocating the generator to the rooftop has previously been investigated though it understood that there are additional complications with this approach.

It is not expected to be practicable to meet the criterion at night.

A derogation is to be sought with the council on the basis that a low-noise acoustically packaged generator selection is proposed, which includes a proprietary acoustic enclosure and silencers to control noise emissions.

With these mitigation measures incorporated into the proposed strategy, if the generator is to run at night during an emergency, the predicted noise level at 1 m from the facade of the nearest noise sensitive premises will exceed the criterion by 5 dB.