

MPF/PR0631/L08

4 March 2023

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Dear Mark

NEW VICTORIA RESIDENTIAL, MANCHESTER

We write in relation to the expected environmental noise levels due to the operation of the life safety generator at New Victoria Manchester.

INTRODUCTION

Fisher Acoustics Ltd has been commissioned by Vinci Construction Limited to advise on the acceptable levels of noise at and around the New Victoria development due to the building services plant that serves the development such that residential amenity is maintained and appropriate noise criteria are adhered to.

This document advises the appropriate noise limit for the life safety generator installed at the development.

NOISE LIMITS FOR LIFE SAFETY BUILDING SERVICES PLANT

As the life safety generator will only run in an emergency or during periodic short-term test runs, it is not appropriate for the generator to be subject to the same stringent environmental noise limits that duty plant would be required to meet.

Manchester City Council normally requires that emergency plant achieves an 'LAeq' noise level that is no greater than 10dB(A) above the pre-existing background noise level (LA90) at a residential receptor. With reference to the results of noise surveys conducted at the site, compliance with this criterion would require that the generator would be required to meet a noise limit of 68dB LAeq at the closest residential façade of New Victoria to the proposed generator.

The reported sound pressure level at 1 metre from the generator is 79dB LAeq. The distance from the generator to the closest residential window is 6.5 metres. Given the reduction in noise from the generator due to the increased distance, but allowing for the reflection of noise from nearby surfaces, the calculated noise level at the closest residential window due to operation of the generator is 66dB LAeq.

Compliance with the appropriate noise limit at closest residential receptor is therefore expected given the reported sound level and location of the generator.

We are therefore comfortable with the statement made by HE Simm in their technical note, reference VIC-HES-ZZ-ZZ-RP-E-60001, in relation to a derogation in the environmental noise criterion for the generator.

If there is any aspect of the above that you would like to discuss then please do not hesitate to contact the undersigned.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'Matt Fisher', is written over a light blue rectangular background.

MATT FISHER BEng(Hons) CEng MIOA
For and on behalf of Fisher Acoustics Limited