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11 August 2022

Kane Constructions Pty Ltd

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Attn: Mr. Justin Looke

ACOUSTIC STATEMENT

JOB NO.: 210454

REVISION NO.: [B]

SUBJECT PREMISES : **SAMIS CENTRAL SUPERSTATION – 42-50 Parramatta Road Forest Lodge, NSW**

This letter has been prepared in order to address the proposed sub-station as part of the SAMIS Central Superstation in regards to potential noise impacts to the nearest residential receivers to the north across Arundel Street.

The noise criteria was extracted from the *Acoustic Report for DA¹* prepared by JHA Engineers and are derived from NSW EPA Noise Policy for Industry, where the lowest most stringent criteria is during night time at 43dB(A). The substation sound power levels (SLWs) have been taken from the AUSGRID EGN Transformer Noise Calculator. The transformer model is a 'Wilson City/suburban Chamber 750 kVA' and has a sound power level (SWL) of 65dB. Based on the SWL noise level of the transformer, the predicted sound pressure level to the nearest residential receiver on Arundel Street has been calculated to 36dB(A). Therefore the predicted noise level is significantly below the night time noise criteria of 43dB(A) to the nearest most affected residential receiver.

The relevant documentation has been reviewed for the substation and noise criteria for the surrounding residential receivers and a noise assessment conducted. Based on the noise assessment conducted for the sub-station, it can be confirmed that the predicted sound pressure levels at the nearest residential receivers will meet the night-time criteria established in the acoustic report, and no additional acoustic mitigation measures are required.

Based on the results of the assessment, the operation of the sub-station is predicted to comply with the relevant noise emissions limits and not result in any adverse acoustic impact onto nearby residences.

Yours sincerely,

Sean Matthews

Senior Acoustic Engineer

¹ Acoustic Report for DA. Central Sydney Ambulance Station, JHA Consulting Engineers, 22/09/2020 (Ref: 200230-AD-DA[B]).