

20171408.3/1806A/R2/TT

24/06/2019

Richard Crookes Constructions Pty Ltd
PO Box 1024
CROWS NEST NSW 1585

ATTN: RUMBI BANDA

Bulli Aged Care Centre of Excellence, 22 Hospital Road, Bulli - Condenser Relocation - Acoustic Advice

We have been asked to comment regarding the proposed relocation of five air-conditioning condensers (serving cool rooms and comms rooms) at the above site.

We note:

- Proposed condensers consist of:
 - 2 Mitsubishi PUHZ-RP170 units serving the comms room (52dB(A) at 1m distance).
 - 3 ACPAC condensers serving the cool room (AP4.1M1-4 and AP4.8L2-4, sound power 70-71dB(A)).
- The condensers are proposed to be located on a condenser platform on Level 1 of the northern façade.
- The nearest noise sensitive development to the condensers are residences directly to the north (Organs Road).

Condition of consent E7 requires that plant/equipment noise not exceed background noise levels by more than 5dB(A) above background levels. Night time background levels at the site are 30dB(A), making a noise emission limit of 35dB(A).

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In order to ensure that compliant noise emissions from the condensers are achieved:

- Install an acoustic louvre (150mm deep, CVS or equal) between the comms room condensers (located at the northern edge of the deck) and the cool room condensers (at the southern end of the deck).
- Louvre must be minimum 400mm higher than the top of the cool room condensers.
- Louvres to return along the eastern and western sides of the plant deck.
- Install a piece of 0.5mm sheet metal/6mm fc sheet running east/ between the bottom of the deck and the roof below (below the lien of the acoustic louvre).
- Condensers to be mounted on Embelton NRD mounts or equal.
- Comm room condensers should use a night quiet mode between 10pm and 7am (49dB(A) at 1m distance).

Please contact us should you have any further queries.

Yours faithfully,



Acoustic Logic Consultancy Pty Ltd
Thomas Taylor