

25 February 2022

Marcus Kraefft
Jacobs
Level 7, 177 Pacific Highway
Sydney, NSW, 2060

Dear Marcus,

Upgrade to John Palmer Public School (SSD-23330227) - Request for additional information

1.0 Introduction

The Department of Planning, Industry and Environment (DPIE) requested additional information regarding the development application for the Upgrades to John Palmer Public School (JPPS) (SSD-23330227) and noise and vibration impact assessment (NVIA). This letter details the additional information requested and AECOM's response.

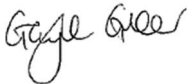
2.0 Additional information request

Additional information requested	AECOM's response
Revised NVIA which provides further information on whether the ventilation louvres would reduce the vehicle and servicing noise associated with The Ponds Shopping Centre loading area enough to achieve compliance with specified noise criteria.	The NVIA has been updated to include the measurements made on site in December 2021 (detailed in AECOM letter 60654726-LTNV-01_B JPPS dated 23 December 2021) which quantifies noise from the operation of The Ponds Shopping Centre (TPSC) at the northern façade of Building N. Discussion has been provided advising that the internal criteria within learning spaces would not be achieved at all times if the ventilation louvres were open. As per the Green Star Buildings guidelines internal noise levels are to be measured post construction with the windows and openings closed regardless of the ventilation strategy. The internal criteria within learning spaces on the northern façade would be achieved if ventilation louvres were closed.
If the ventilation louvres would not reduce the traffic noise enough to meet the internal noise criteria, details of alternative means of ventilation are required to be provided.	The Mechanical/ESD design is based on the premise that the louvres would be closed at times, due to unfavourable weather conditions. During these times ventilation would be provided in accordance with the Building Code of Australia/National Construction Code (BCA/NCC) 2019 by the mechanical services design as already detailed in the Mechanical Services Specification (AECOM 60654726-ME-SP-01 dated 22 September 2021) and drawings. Cross flow ventilation is only to be utilised at the Teachers discretion when weather and acoustic conditions are favourable.
Statement addressing the relevant acoustic amenity and natural ventilation sections of the Noise Policy for Industry 2017 (NSW EPA).	The use of the alternative means of ventilation described in the point above would enable the internal noise criteria to be achieved. Therefore, the requirements of the Noise Policy for Industry (NPfI) in terms of both acoustic amenity and ventilation requirements would be met. It is noted that there is no requirement for 'natural' ventilation in the NPfI. The current design allows for operable windows and louvres on the South façade for ventilation when noise conditions are unfavourable on the North façade. Mechanical ventilation is provided when louvres are closed to maintain CO₂ levels within the classrooms to 800 PPM in accordance with BCA/NCC 2019.

Additional information requested	AECOM's response
Revised ESD report which aligns with the findings and recommendations of the revised NVIA.	The natural ventilation strategy has already been incorporated into Architectural drawings and therefore no revisions to the Green Star Pathway/ESD report (AECOM SINSW02099-John Palmer PS- ESD Report dated 12 November 2021) are required. Cross ventilation is provided to be used by the school for reducing energy, however due to unpredictability of weather it has not been relied upon as the sole ventilation strategy.

I trust that the above information addresses the request for additional information issued by DPIE on 17 February 2022.

Yours faithfully



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