Our ref: DOC21/1028122
Senders ref: SSD-17491477

Ferdinando Macri
Planning Officer
Infrastructure Assessments,
Planning and Assessment Group, DPIE
Locked Bag 5022
PARRAMATTA NSW 2124

Dear Mr Macri

Subject: Exhibition – Lang Walker AO Medical Research Building - Macarthur (SSD-17491477)

Thank you for your email received 17 November 2021 requesting comments on the above proposal.

Environment, Energy and Science Group (EES) notes that a waiver for the requirement to prepare a biodiversity development assessment report was granted on 10 November 2021. EES has no further no comments in relation to biodiversity.

EES has reviewed the flood assessment provided as part of the EIS. Broadly, EES considers that further refinement and clarification around the extend and severity of flooding impacts is required. Detailed comments on this aspect can be found at **Attachment A**.

If you have any queries please contact David Way, Senior Conservation Officer via David.Way@planning.nsw.gov.au or 02 8275 1324.

Yours sincerely

S. Harrison

14/12/21

Susan Harrison

Senior Team Leader Planning
Greater Sydney Branch
Biodiversity and Conservation

Attachment A – EES comments on the Environmental Impact Statement for the Lang Walker AO Medical Research Building - Macarthur (SSD-17491477)

EES raises concerns around the flood modelling and information provided and has identified that some details require clarification to ensure flood risks are properly managed.

Flood Modelling and Assessment

EES has concerns regarding the flood model accuracy. The proposed conditions flood mapping shows flooding inside the building footprint, most notably in Figure 19 of the *Civil SSDA – Flood Assessment and Stormwater Management Report Lang Walker AO Medical Research Building – Macarthur* (the flood report). The building should be blocked out in the model and no flooding should be present within the building footprint. If the building is not blocked out, impacts will not be properly assessed.

Clarification is also required regarding proposed floor levels and relevant flood levels. Section 5.3.1 of the flood report states that there is insufficient freeboard. It is also unclear where the different building levels are because the only description is "Lower Ground 02" for two separate levels. Levels for all relevant ground floors and associated flood levels need to be provided, for example Level 00 (Village Green). Ideally this should be provided in a table with a description of location and the point location should be marked on a flood map.

Further detail is required on flood impacts. The Flood Impact Assessment Map for the 1% AEP flood event does not allow assessment of significant impacts because a band of -20 mm to +20 mm has been used. No significant impact is typically considered to be within -10 to +10 mm. The mapping should be revised accordingly. Further, due to the potentially sensitive nature of adjacent land uses (hospital buildings), impact assessment is also required for the PMF event and a corresponding map should be provided.

Clarifications for the flood report:

Section 5.3.1 Flood Levels Adjacent to the Proposed Building's Openings Received architectural plans indicate that the proposed entry level to Lower Ground 02 is 76.10m AHD which is 0.23m above the 1%AEP flood level of 75.88m AHD and 4mm above the adjacent PMF flood level of 76.06m AHD.

The Flood report establishes that the proposed Finished Floor Level for the Lower Ground 02 is 76.55m AHD which is above the minimum required FFL of 76.38m AHD (1% AEP flood level of 75.88m AHD plus 500mm freeboard).

End of Submission