

14 April 2015

CPP Project 6908

Lend Lease
Level 4, 30 The Bond
30 Hickson Road
Millers Point
NSW 2000

Attn: Mr. Greg Smith

Subject: Wind Engineering & Solar Reflectivity – South West Plot of Darling Square for S96 for SSD-6011

Ref: (1) CPP Report 'Wind Tunnel Tests Report Stage 2 State Significant Development Application (SSDA 5)', dated 30 May 2013 Rev 6.
(2) CPP Report 'Façade Pressure Wind Tunnel Tests for SICEEP Haymarket Precinct South West Plot' dated November 2014.
(3) CPP Report 'Structural Load Wind Tunnel Tests for SICEEP Southern Precinct SW3' dated August 2014.
(4) CPP Report 'Reflectivity Report Stage 2 State Significant Development Application (SSDA 5)' dated 30 May 2013 Rev 1.

Dear Mr. Smith,

Cermak Peterka Petersen Pty. Ltd. (CPP) was previously engaged by Lend Lease to assess the proposed Sydney International Convention Centre, Exhibition and Entertainment Precinct (SICEEP), South West Plot of Darling Square in terms of Wind Engineering and Solar Reflectivity Impact. This letter supports an application made under Section 96 of the Environmental Planning and Assessment Act 1979 (EP&A Act) to modify Development Consent, SSD-6011 relating to the development of the South West Plot of Darling Square which is part of the SICEEP.

CPP have reviewed Denton Corker Marshall Section 96 drawings for the development 'Darling Square South West Plot Supplementary Design Report – Amendments' dated April 2015. Itemised amendments have been included on pages 4 and 5 of the drawings and annotated through the drawings set.

From a wind perspective all the amendments are considered minor and will only have a local impact on the wind conditions and loading on the development and surrounding areas. Previous CPP wind tunnel test reports summarise the pedestrian level wind environment around the proposed South West Plot development (1) as well as providing design wind loads for façade (2) and structural design (3).

It is expected similar pedestrian wind conditions will be encountered with the Section 96 scheme building design. The addition of canopies and privacy screens will provide additional local wind shielding benefit in terms of pedestrian and occupant wind comfort (1). In separate communications with façade designers, CPP will provide wind loading advice for the additional awning elements by extrapolating existing wind tunnel data (2). The Section 96 changes will have negligible impact on the tower global wind loads (3).

The Solar Reflectivity report (1) quantifies the potential for solar reflectivity glare from the facades of the South West Plot buildings to impact upon motorists using roadways intersecting and surrounding the SICEEP precinct. The Section 96 modifications will have little impact on the findings of the previous CPP reflectivity assessment (4).

I hope this is of assistance, please do not hesitate to contact me on 9551 2000 if you would like to discuss any aspect of this report.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'G. Wood'.

Graeme Wood
Director

cc M.J. Glanville