

7 October 2010

Mr M Henry
Tabcorp Holdings Limited
80 Pyrmont Street,
Ultimo NSW 2007

Dear Mike

Solar Reflection from the Proposed MUEF (Multi Use Entertainment Facility) Facades

As a preliminary assessment prior to issue of a detailed report the following information is provided based on drawings 21013 DOP-15 1 and 21013 DOP-05. There are two parts to the assessment from a façade solar reflectivity aspect; the pre-function centre and the MUEF each having different façade systems and materials.

Pre-Function Space Façade:

The pre-function space is circular in plan with a glass façade which means the façade will consist of a series of vertical planes of glass with each consecutive plane changing in orientation. The angular changes in azimuth between vertical planes will be regular. Any one aspect will present only a small reflective area as each plane will be quite small in angular width relative to the observation locations. The result is that any one plane is very small in the field of view and therefore towards any one observation point the reflection will last for minutes only at that time of day and period of the year. However, as the sun changes apparent position the reflection may move to the adjacent plane of glass which from a distance will seem to be similar to the previous position which means the reflection from a general location on the façade may seem to last for a longer period of time.

A motorist at the junction of Pirrama Road and Edward Street facing towards Project Star is not able to view the pre-function space façade. A ferry operator approaching the public wharf adjacent the Accenture building and travelling directly towards Project STAR may be potentially affected at that point for a few minutes in the morning providing they are looking in that direction rather than looking at the wharf whilst docking. Pedestrians on the wharf would be exposed to the same potential solar reflection. If the ferry operator approaches the wharf in the opposite direction travelling in a loop before docking there is unlikely to be any effect.

Residents between locations Wharf 9 and part of Wharf 8 will experience flash from different plane aspects of the glass façade of the pre-function space for a few minutes towards any one location in the morning at different times of the year.

MUEF Façade:

The proposed façade will be opaque material of metallic appearance, tessellated pattern and matte reflective finish. The rectangular plan of the MUEF has rounded corners the sum of which provides a diversity of azimuth planes further complicated by the tessellated panels producing a complex arrangement of orientations to analyse. However, as the finish is proposed to have matte characteristics, a matte surface produces virtually equal reflection in all directions which means the orientation of any one panel and the angle of incidence of direct sunlight will not produce the reflected brightness and or potential reflected glare that a semi-specular (semi-gloss) or specular (gloss) surface would produce. Towards any one observer location the tessellation will produce different patterns of brightness and that pattern will also change with time as the sun moves creating visual interest. It is not anticipated that any matte surfaced opaque panel will produce disability glare by solar reflection.

Yours faithfully



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