

TF160-01F03 (rev 0) AC Condensors on Balconies

1 September 2011

Michael Azar

Site 3 Development Co. Pty Limited

Locked Bag 1451

Meadowbank NSW 2114

Dear Michael

**RE: AUSTRALIA TOWERS, STAGES 2 & 3, SYDNEY OLYMPIC PARK –
PRELIMINARY ASSESSMENT OF AC CONDENSORS ON BALCONIES**

It is our understanding that Sydney Olympic Park Authority (SOPA) has requested additional information regarding the potential noise impacts from air condensor units being placed on balconies of the residential building.

Although at this stage details of the air conditioning system has not been selected or finalised, the following in-principle noise mitigation and management measures are provided for the air condenser units servicing the proposed development:

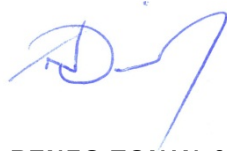
- An acoustic assessment of the air condenser units will need to be undertaken during the detail design and equipment selection phase of the development to ensure that they shall not either singularly or in total emit noise levels which exceed the noise limits stipulated in the Acoustic Report prepared for the Development Application;
- If noise emission from the selected air condensor units need to be controlled, this can be achieved by the implementation of common engineering methods that may include any of the following:
 - strategic positioning of the air condensor units on balconies that are away from sensitive neighbouring premises, maximising the intervening shielding between the air condensor unit and sensitive neighbouring premises, and/or
 - selecting air condensor units that incorporate inverter technology and night quiet mode which reduce the operating sound levels when the outdoor temperature has dropped by a certain amount from the maximum temperature recorded during the day, and/or



- acoustic screens and barriers between the air condensor units and sensitive neighbouring premises, and
 - air condensor units shall be mounted on vibration isolators
- Air condensor units shall have their noise specifications and their proposed locations checked prior to their installation on site; and

By placing air condenser units on the balconies of Stage 2 & 3, the noise levels emitted from the air condensor units are capable of achieving the noise limits stipulated the acoustic report dated 7 June 2011.

Yours faithfully,



RENZO TONIN & ASSOCIATES (NSW) PTY LTD

Nicholas Tselios

Director

Architectural & Building Acoustics Team