

Job no SY140358

19/09/2014

Michael Azar
Ecove Group
Cnr Australia Avenue and Herb Elliott Avenue
Sydney Olympic Park, NSW 2127

Dear Michael

Site 68, Sydney Olympic Park – Preliminary fire safety engineering review

The design of the proposed development at site 68, Sydney Olympic Park will incorporate alternative solutions complying with the performance requirements of the National Construction Code Series 2014 Volume One – Building Code of Australia (BCA). Defire has undertaken a preliminary fire safety engineering review of the proposed design for the development applications submission at the request of Ecove Group. The review was based on the drawings and information listed in Attachment 1.

The intent of the review was to determine whether we believe the design can be demonstrated to achieve compliance with the performance requirements of the BCA. The alternative solutions identified to date are listed in Table 1.

Item	Description of alternative solution	DTS provision	Performance requirement
1.	The total length of the residential corridors on each floor exceeds 40m and is not proposed to be smoke separated.	Clause C2.14	DP4
2.	The maximum travel distance to the nearest exit within the carpark levels is proposed to be extended to 55m in lieu of 40m.	Clause D1.4	DP4 and EP2.2
3.	The fire hydrant booster assembly is proposed to be positioned in a location that is not within sight of the main building entry – ie entry lobby.	Clause E1.3	EP1.3

Table 2 Preliminary list of alternative solutions

It is Defire's professional opinion that it is possible to develop alternative solutions for the issues identified to demonstrate compliance with the relevant performance requirements of the BCA without major changes to the proposed design.

The details of the proposed alternative solutions are subject to the outcome of the fire engineering brief and analysis which will be carried out in accordance with the International Fire Engineering Guidelines.

The alternative solutions for the building will be developed as part of the ongoing design and development process and documented in a format suitable for submission to the relevant approval authorities.

Please contact me on 02 9211 4333 if you have any questions.

Yours sincerely



Aaron Li
Senior fire safety engineer
Defire – Innovative fire safety



Attachment 1 Drawings and information

Drawing title	Dwg no	Date	Drawn
Ground plane	DA01.30[02] Rev 1	10/09/2014	Bates Smart
Level 01-03	DA02.01[06]X Rev 5	29/08/2014	Bates Smart
Level 04	DA02.04[01]X Rev 5	29/08/2014	Bates Smart
Level 05-09	DA02.05[01]X Rev 1	29/08/2014	Bates Smart
Level 10	DA02.10[01]X Rev 5	29/08/2014	Bates Smart
Levels 11-15	DA02.11[01]X Rev 1	29/08/2014	Bates Smart
Level 16	DA02.16[01]X Rev 5	29/08/2014	Bates Smart
Level 17-24	DA02.17[01]X Rev 1	29/08/2014	Bates Smart
Level 25-26	DA02.25[01]X Rev 4	29/08/2014	Bates Smart
Level 27-33	DA02.27[X]X Rev 2	29/08/2014	Bates Smart
Basement level 001	DA02.B1 [02] Rev 5	03/09/2014	Bates Smart
Basement level 002	DA02.B2 [02] Rev 5	03/09/2014	Bates Smart
Basement level 003	DA02.B3 [02] Rev 5	03/09/2014	Bates Smart

Other information	Ref no	Date	Prepared by
BCA report	067032-01BCA	11/09/2014	McKenzie Group Consulting