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CONSULTANT'S ADVICE				Fire Engineering	
Project Name:		Wollongong Private Hospital		Consultant's Advice No.	CA02
Project No:		2818000			
Client:		AA Crown Holdings Pty Ltd		Issued for: Information	
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<b>Subject: Wollongong Private Hospital Section 75W submission – Fire Safety Engineering Design Compliance Strategy</b>					

This letter indicates the proposed fire safety design strategy for the Wollongong Private Hospital development, which is located on Crown Street, Wollongong, NSW.

As stipulated within the NSW Environmental Planning & Assessment (EP&A) Regulation 2000, the proposed development, as documented in the relevant Health Projects International architectural drawings referenced in Table 1, is to comply with the Building Code of Australia (BCA). The relevant edition is BCA 2013.

**Table 1 – Referenced architectural drawings**

Drawing no.	Title	Issue no.	Date
WGPB-E-1-75W	East Elevation	3	07/06/2013
WGPB-E-2-75W	Urunga Parade & East Elevation	2	07/06/2013
WGPB-EC-1-75W	Building Extent Comparison Plans	1	31/05/2013
WGPB-EC-2-75W	Building Extent Comparison Plans	1	31/05/2013
WGPB-EC-3-75W	Building Extent Comparison Elevations	2	06/06/2013
WGPB-EC-4-75W	Building Extent Comparison Elevations	2	06/06/2013
WGPB-EC-5-75W	Building Extent Comparison Sections	2	06/06/2013
WGPB-P-1-75W	Plan Level 1	3	18/06/2013
WGPB-P-2-75W	Plan Level 2	2	06/06/2013
WGPB-P-3-75W	Plan Level 3	1	07/06/2013
WGPB-P-4-75W	Plan Level 4	1	07/06/2013
WGPB-P-5-75W	Plan Level 5	2	18/06/2013
WGPB-P-6-75W	Plan Level 6	2	18/06/2013
WGPB-P-7-75W	Plan Level 7	2	18/06/2013
WGPB-P-8-75W	Plan Level 8	1	07/06/2013
WGPB-P-B1-75W	Plan Basement Level 1	4	18/06/2013
WGPB-P-B2-75W	Plan Basement Level 2	4	18/06/2013
WGPB-P-B3-75W	Plan Basement Level 3	4	18/06/2013
WGPB-P-G-75W	Plan Ground Floor	5	18/06/2013
WGPB-P-S-75W	Plan - Site Plan	2	07/06/2013
WGPB-REN-1-75W	Rendering	2	07/06/2013

Drawing no.	Title	Issue no.	Date
WGPH-REN-2-75W	Rendering	1	07/06/2013
WGPH-REN-3-75W	Rendering	2	18/06/2013
WGPH-REN-4-75W	Rendering	1	07/06/2013
WGPH-SE-1-75W	Section - east west	3	18/06/2013
WGPH-SE-2-75W	Section - north south	3	18/06/2013

It is proposed that the method of BCA compliance for fire safety be achieved via a combination of prescriptive-based and performance-based design. This approach accords with clause A0.5(c) of the BCA, which permits compliance to be achieved via one or a combination of the following:

- prescriptive means – meeting the BCA deemed-to-satisfy provisions; or
- fire engineering – formulating an alternative solution that either demonstrates compliance with the relevant BCA performance requirements directly or demonstrates fire safety equivalence with the deemed-to-satisfy provisions.

Compliance with aspects of fire safety design that are not intended to meet the BCA deemed-to-satisfy provisions will be addressed as alternative solutions forming the basis of a fire engineering analysis. The assessment methods will be in accordance with the following:

- BCA clause A0.9(b), comprising utilisation of “other verification methods” appropriate to that which the approval authority will accept for determining compliance with the performance requirements; or
- BCA clause A0.9(c), comprising utilisation of a comparison of the level of fire safety performance associated with the proposed design to that achieved by the deemed-to-satisfy provisions.

The fire engineering analysis will follow the principles established within the International Fire Engineering Guidelines. The acceptance criteria for the assessment of the alternative solutions will be established in consultation with the relevant authorities having jurisdiction, the design team and the owner’s representative. This process will continue throughout the development of the design.

For consideration of the impact of the impending fire engineering strategy on the design of the development, Exova Warringtonfire Aus Pty Ltd has undertaken a preliminary fire safety engineering assessment of the architectural planning-phase plans for the proposed development. From the assessment undertaken, it is considered that the fire safety engineering alternative solutions identified can be addressed, enabling the proposed development to achieve compliance with the relevant fire safety-related provisions of the BCA.

Should you have any further queries regarding this, please do not hesitate to contact the undersigned.

Yours faithfully,



James Dominguez  
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**For and on behalf of Exova Warringtonfire Aus Pty Ltd.**