1 October 2013 Ref: 06363-25L

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Thinc
Level 3, 8 Spring Street
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Attention: Ben Mackey

Dear Ben,

Re: Prince of Wales Hospital
Nelune Comprehensive Cancer Care Centre & Australian Advanced Treatment Centre – STAGE 2

We have reviewed the updated design documentation against the provisions of the Building Code of Australia 2013. We confirm that, based on the below documentation, the project is capable of complying with the Building Code of Australia 2013 and is generally consistent with our previously issued BCA Report (Ref 06363-11BCA Revision E dated 24 April 2013) with the following amended table of alternate solutions:

DTS Clause	Description of Non-Compliance	Performance Requirement
C2.11	Lift lobby is included as part of the fire isolated exit to the southern core. Lifts open directly onto the fire isolated stair	DP5
C3.3, C3.4	Openings to different fire compartments are proposed to have protection rationalized to have one opening protected on both sides in lieu of both openings being protected on one side where openings are proposed and exposed in both compartments.	CP2, CP8
C3.4	Openings within the voids that are required to be protected from the void side to form compartmentation are proposed to be protected from the non-void side only.	CP2
Spec C1.1	Glass is proposed in fire walls separating compartments that does not achieve an FRL of 120/120/120. The glass will be	CP2

	drencher protected in lieu of achieving an FRL.	
Spec C1.1	Lids to service risers are not proposed to achieve the required FRL of 120 minutes.	CP2
D1.3	The central stairway in the public lift lobby connects 4 storeys and is not proposed to be fire isolated. 120 minute compartmentalising construction is proposed to be provided to all levels within the vicinity of the stair to keep compartment sizes within the parameters of the deemed to satisfy provisions. Level 1 is proposed to be separated from the stair by drenched glazing.	CP2
D1.4	Assessment of architectural drawings indicates the following extended travel distances: ▪ Travel distance to a point of choice: ▪ Level 0: 15m in lieu of 12m ▪ Level 3: 24m in lieu of 20m ▪ Level 4: 25m in lieu of 12m ▪ Level 5: 29m in lieu of 20m ▪ Level 5 South: 35m in lieu of 12m ▪ Level 6 North: 19m in lieu of 12m ▪ Level 6 South: 24m in lieu of 12m ▪ Travel distance to an exit where two or more exits are available: ▪ Level 0: 35m in lieu of 30m ▪ Level 3: 41m in lieu of 40m ▪ Level 4: 50m in lieu of 30m ▪ Level 5: 43m in lieu of 40m ▪ Level 5 South: 44m in lieu of 30m ▪ Level 6 North: 44m in lieu of 30m ▪ Level 6 South: 45m in lieu of 30m	DP4 & EP2.2
D2.4	Rising and descending stair flights in the southern core are not proposed to be separated by the required smoke proof construction.	DP4
D2.20	Several of the horizontal exits serve as exits from compartments on both sides. These doors are not proposed to swing both ways and will therefore swing against the direction of egress from one compartment.	DP4
E1.3	The hydrant booster assembly is proposed to be located to the north west of the building on High Street which is a location not visible from the main entrance to the building.	EP1.3
E1.5	Sprinklers are not installed within the bunkers, control areas, cath labs and the theatre component of brachiotherapy due to the sensitive nature of the medical equipment. Separation of the sprinkler protected areas will achieve an FRL of 120 minutes with the exception of the doors which will not achieve an FRL of 120 minutes and penetrations through the bunker walls are not proposed to be protected.	EP1.4
E2.2	A smoke clearance system to fire affected smoke compartments is proposed to be provided in lieu of a zone smoke control system throughout	EP2.2

E2.2	As part of stage 2 the building must be served by a zone smoke control system. The Radiation Oncology area within basement radiation oncology centre and the level 0 north fire compartment are not proposed to be served by the proposed smoke clearance system.	EP2.2
E2.2	Smoke detectors are not proposed to be provided in ceiling spaces that are required to have detectors where sprinkler protection is also required to those ceiling spaces.	EP2.2
E2.2	Brachiotherapy is proposed to be positively pressurised, however the pressurisation will not achieve a quantifiable velocity or pressure differential across the door.	EP2.2
E2.2	It is proposed to use motorised dampers in lieu of sub-ducts to the smoke spill system.	EP2.2
Part G3	Atrium proposed throughout the building that has non-compliant dimensions. The well will not have a clear width to allow a 6m diameter cylinder to pass through it.	CP2, EP2.2
Part G3	The proposed building will not comply with the requirements for a building containing an atrium.	CP2, EP2.2

Drawings reviewed: Architectural drawings prepared by Rice Daubney: DA_02_10001/A, DA_02_10009/A, DA_02_11001/A, DA_02_11002/A, DA_02_11011/A, DA_02_11013/A, DA_02_11021/A, DA_02_11031/A, DA_02_11041/A, DA_02_11051/A, DA_02_11061/A, DA_02_11071/A, DA_02_11081/A, DA_02_11091/A, DA_02_11101/A, DA_02_14001/A,

Yours faithfully

Brigitte Thearle
Senior Building Surveyor
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