



## NSW RURAL FIRE SERVICE

Dept. Of Planning - Urban  
Locked Bag 5022  
Parramatta NSW 2124

Your reference: SSI 10033  
Our reference: DA-2019-01874-EIS & DA  
Exhibition-1

**ATTENTION:** See letter

Date: Tuesday 6 December 2022

Dear Sir/Madam,

### Development Application

Other - Part3A - (none)

Shoalhaven Hydro Expansion Project - Main Works - KANGAROO VALLEY NSW 2577, 1//DP1129356, 2//DP1129356, 3//DP1129356

I refer to your correspondence regarding the above proposal which was received by the NSW Rural Fire Service on 08/11/2022.

The NSW Rural Fire Service has undertaken a review of the proposal and submitted documentation, specifically Appendix O the Bushfire Assessment (dated November 2022 prepared by Jacobs Group), and provides the following recommended conditions for the approval authorities consideration.

### Emergency Management Planning

1 - All proposed solutions identified in Table 5-4 and 5-5 'Emergency Management' of the Bush Fire Assessment prepared by Jacobs Group shall be incorporated into the proposal.

NOTE - This shall also include a requirement that a copy of the bushfire emergency evacuation plan be provided to the relevant NSW RFS District office/s and the Local Emergency Management Committee.

### Asset Protection Zones

2 - All proposed solutions identified in Table 5-1 'Asset Protection Zones' of the Bush Fire Assessment prepared by Jacobs Group shall be incorporated into the proposal.

NOTE - This includes achieving a APZ of 19KW/m2 around the proposed Ventilation and Water Treatment Building.

3 - All existing APZs shall be maintained.

### Construction Standards

4 - All proposed solutions identified in Table 5-2 'Construction Standards' of the Bush Fire Assessment prepared by Jacobs Group shall be incorporated into the proposal.

#### Postal address

NSW Rural Fire Service  
Locked Bag 17  
GRANVILLE NSW 2142

#### Street address

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4 Murray Rose Ave  
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NOTE - Where new construction of buildings in accordance with AS3959 is not possible due to the nature of the use of those structures (ie the ventilation building), then these structures shall be built using fire resistant and non combustible materials, and provide appropriate ember proofing of openings.

5 - The existing Kangaroo Valley Power Station, Kangaroo Valley Power Station Administration Building, Bendeela Power Station shall be upgraded for ember protection. This is to be achieved by enclosing all openings (excluding roof tile spaces) or covering openings with a non-corrosive metal screen mesh with a maximum aperture of 2mm. Where applicable, this includes any sub floor areas, openable windows, vents, weepholes and eaves. External doors are to be fitted with draft excluders.

6 - Wherever possible, new infrastructure should be constructed out of non combustible materials and provided with appropriate separation from hazards to reduce the likelihood of flame contact during the event of a bush fire (ie be located outside of BAL Flame Zone).

### **Access Requirements**

7 - All proposed solutions identified in Table 5-3 'Access' of the Bush Fire Assessment prepared by Jacobs Group shall be incorporated into the proposal.

NOTE - The water supply requirements in this letter of recommendations also include requirements for suitable access to be provided for fire fighting vehicles to water supply locations.

### **Water Electricity & Gas**

8 - Generally in accordance with Table 5-4 Water Supply' of the Bush Fire Assessment prepared by Jacobs Group, the following measures for water supply for fire fighting purposes shall be incorporated into the proposal:

(a) Fitzroy Falls Reservoir, Bendeela pondage and Lake Yarrunga shall be provided with access for firefighting vehicles including a suitable turning area in accordance with the Property Access requirements of Table 5.3b of Planning for Bush Fire Protection 2019.

Adequate signage is to be provided within the site to direct firefighting vehicles to specified static water supply locations.

(b) Two 144 kL fire water tanks are provided within the Kangaroo Valley construction footprint that meets the following requirements:

- A connection for firefighting purposes is located within the IPA or non-hazard side and away from the structure; 65mm Storz outlet with a ball valve is fitted to the outlet
- Ball valve and pipes are adequate for water flow and are metal
- Supply pipes from tank to ball valve have the same bore size to ensure flow volume
- A hardened ground surface for truck access is supplied within 4m;
- Underground tanks have an access hole of 200mm to allow tankers to refill direct from the tank
- Above-ground tanks are manufactured from concrete or metal
- Raised tanks have their stands constructed from non-combustible material or bush fire-resisting timber (see appendix f of AS 3959)
- Unobstructed access can be provided at all times
- Underground tanks are clearly marked
- Tanks on the hazard side of a building are provided with adequate shielding for the protection of firefighters
- All exposed water pipes external to the building are metal, including any fittings
- A pump is provided, and is a minimum 5hp or 3kW petrol or diesel-powered pump, and shielded against bush fire attack; a hose and reel for firefighting connected to the pump shall be 19mm internal diameter
- Fire hose reels are constructed in accordance with AS/NZS 1221:1997, and installed in accordance with the relevant clauses of as 2441:2005
- Hydrants are located outside of parking reserves and road carriageways to ensure accessibility for fire suppression
- Hydrants are provided in accordance with the relevant clauses of as 2419.1:2005 - Fire hydrant installations system design, installation and commissioning.

9 - The existing Kangaroo Valley Power Station and Administration Building shall be provided with access to a

water supply source for fire fighting purposes, including appropriate fire fighting vehicle access to the water source. This water supply shall comply with Table 7.4a of Planning for Bush Fire Protection 2019.

10 - In accordance with the mitigation recommendations of the Bush Fire Assessment prepared by Jacob Group, the proposed High Voltage Network Connection shall be buried.

NOTE - This shall be buried to a suitable depth to insulate the infrastructure such that it is protected from both the impact of surface bush fires, and it minimises the risk of the proposed network posing an ignition source of bush fires.

For any queries regarding this correspondence, please contact Martha Dotter on 1300 NSW RFS.

Yours sincerely,

Michael Gray  
**Manager Planning & Environment Services**  
**Built & Natural Environment**