



BUSHFIRE ATTACK ASSESSMENT REPORT

For Site Located At: **Lot 7, Ivor Jones Drive, Wonboyn Lake**

Created By: **Web-based Bushfire Attack Assessor Version 2.0**

1. User's Inputs

Local Government Area: **Bega Valley**

In Alpine Areas: **No**

Vegetation: **Forests**

Effective Slope (degree): **0** (level)

Separation Distance (m): **40**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **73** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **8.89** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **2.4** (Noble et al., 1980)

Fire Intensity (kW/m): **31000**

Transmissivity: **0.789** (Fuss and Hammins, 2002)

Flame Length (m): **18.6** (RFS PBP, 2001)

Radiant Heat Flux (kW/m²): **12.47**

Assessment Date: **21/2/2008**

Assessed By: **Maree Staight**



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Vegetation: **Forests**

Effective Slope (degree): **3** (downslope)

Separation Distance (m): **45**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **74** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **8.31** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **2.95** (Noble et al., 1980)

Fire Intensity (kW/m): **38129**

Transmissivity: **0.781** (Fuss and Hammins, 2002)

Flame Length (m): **22.19** (RFS PBP, 2001)

Radiant Heat Flux (kW/m²): **12.5**

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Effective Slope (degree): **3** (upslope)

Separation Distance (m): **35**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **77** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **5.81** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **1.95** (Noble et al., 1980)

Fire Intensity (kW/m): **25204**

Transmissivity: **0.798** (Fuss and Hammins, 2002)

Flame Length (m): **15.68** (RFS PBP, 2001)

Radiant Heat Flux (kW/m²): **12.34**

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APPENDIX 4

Summary of AS 3959 – 1999 Construction of Buildings in Bushfire Prone Areas

This is a summary of the Australian Standard 3959 – 1999 Construction of Buildings (as defined in the Building Code of Australia) in Bushfire Prone Areas, which provides some detail for developments proposed in those zones at risk from bushfire. This summary is intended as a guide only, and should not be solely relied upon; a full version is available from Standards Australia.

Flooring

Level 1

Concrete Slab on ground. Suspended floor, concrete floor, framed floor, underside of bearer to be greater than 600 mm above finished ground level. Any exposed timber to be of fire retardant treated timber.

Level 2

As per Level 1.

Level 3

As per level 1, except where framed floor have a greater clearance than 600mm above finished ground level and the floor is not enclosed, all flooring should be of fire retardant treated timber, or sheeted underneath with non-combustible material.

External Walls

Level 1

Masonry, concrete, pise, rammed earth all permitted. Framed walls have no restriction to cladding materials but must incorporate breather type sarking in accordance with AS/NZS 4200.1 and with a flammability index of not more than 5; or an insulation material conforming to the appropriate Australian Standard for that material.

Where combustible sheeting is less than 400mm from the ground, all cladding should be protected with a non-combustible material or fire retardant treated timber for no less than 400mm above the finished ground level.

Level 2

As per level 1 except that PVC cladding is not permitted and all external timber wall cladding to be of fire retardant treated timber.

Level 3

As per level 2.

Windows

Level 1

All openable windows to be fitted with screens of corrosion-resistant steel, bronze or mesh, with a maximum aperture size of 2mm.

Level 2

As per Level 1, except aluminium mesh shall not be used; any timber used shall be fire retardant treated timber, except where protected by non-combustible shutters; and lead light windows to be protected by non-combustible shutters or of toughened glass.

Level 3

As per Level 2, except that windows are to be either protected by non-combustible shutters, or of toughened glass.

External Doors

Level 1

Weather strips or draught excluders to be fitted. Tight fitting door screens fitted with corrosion resistant steel, bronze or aluminium mesh with a maximum aperture of 2mm to be fitted.

Level 2

As per level 1, except aluminium mesh shall not be used. Any leadlight glazing panels shall be protected by non-combustible shutters, or of toughened glass.

Level 3

As per level 2, except timber doors shall be fire retardant treated, or have a non-combustible covering on the exterior surface, or, doors shall be protected by non-combustible shutters, or doors shall be solid core, having a thickness not less than 35mm.

Vents and Weepholes

Level 1

All vents and weepholes shall be protected with spark guards made from corrosion-resistant steel, bronze or aluminium mesh with a maximum aperture size of 2mm.

Level 2

As per level 1, except that aluminium shall not be used.

Level 3

As per level 2.

Roofs

Level 1

Timber shakes or shingles shall not be used. Roof/wall junctions shall be sealed by either fascias and eaves linings, or be sealed with a suitable non-combustible material. All sarking shall have a flammability index of not more than 5.

Tiled roofs shall be fully sarked, covering the entire roof including the ridge.

Sheeted roofs shall be metal or fibre cement sheet only. All gaps under corrugations or ribs where it meets the fascia or wall line shall be sealed or protected by either fully sarking the roof, or providing corrosion-resistant steel or bronze mesh with a maximum aperture size of 2mm, profiled metal sheet, neoprene seal, compressed mineral wool or similar material. Rib caps and ridge capping shall be appropriately sealed, or preformed rib caps or ridge capping shall be used.

Level 2

As per level 1, except that all roof sheeting shall be non-combustible and sarked.

Level 3

As per level 2, except that no fibre reinforced cement or aluminium sheet to be used.

Gutters and Downpipes

Level 1

Any materials or devices used to stop leaves collecting in the gutters shall have a maximum flammability index of not more than 5.

Level 2

As per level 1.

Level 3

As per level 2.

APPENDIX 5

AERIAL PHOTOGRAPH



APPENDIX 6

Photographs of Existing Access

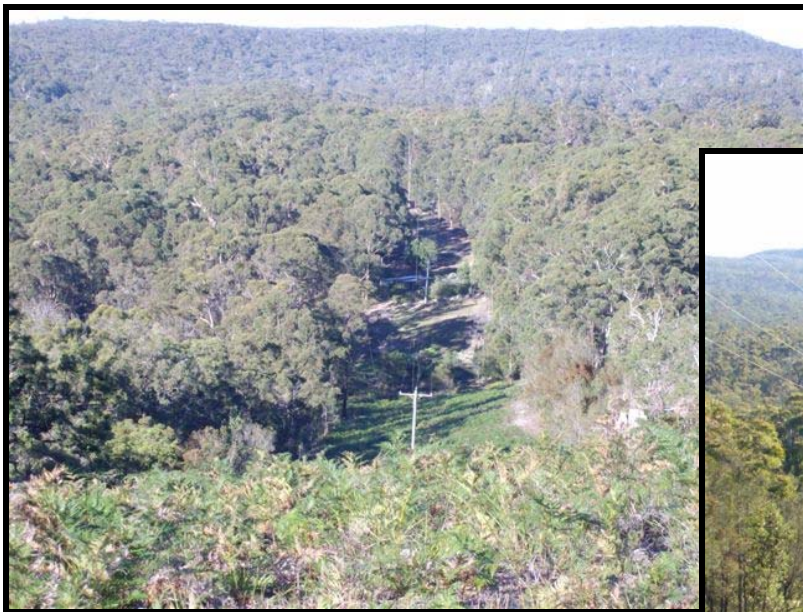


Proposed Passing Bay No. 1



Proposed Passing Bay No. 2

Photographs of Utility Services



Looking south along existing electricity lines



Looking north along existing electricity lines with the subject property in background, also showing "loop" track access

Photographs of Proposed New Allotments

(Lots 1 & 2)



Looking west at approximate
common boundary



Looking north from Lot 1



Looking west across Lot 2



Looking south towards Lot 2



Looking south towards Lot 1



Looking south at approximate common boundary

(Lots 3 & 4)



Looking northwest towards Lot 3



Looking west at the boundary of Lots 3 and 4



Typical Vegetation within Lots 3 and 4



Looking west towards the lots

(Lots 5 & 6)



Looking west across river frontage
of Lots 5 and 6



Looking southwest towards Lot 5



Typical vegetation within Lots 5 and 6



Typical Vegetation within Lots 5 and 6

(Lot B)



Existing Dwelling and Jetty on Lot B



Jetty on Lot B



Existing Dwelling on Lot B

Adjoining Properties



Property to the north of Lots 5 and 6
(across Wonboyn River)
Doyle, Owner



Property to the east of Lot B
Dowsley, Owner



“Wonboyn Lake Resort”
Located to the east of Lots 1 and 2
Foxwell & Robin, Owner



“Wonboyn House”
Located to the south of the subject property
McPherson, Owner