

GUIDE FOR RESITED DWELLINGS

in association with the Resilient Homes Program delivered by the NSW Reconstruction Authority



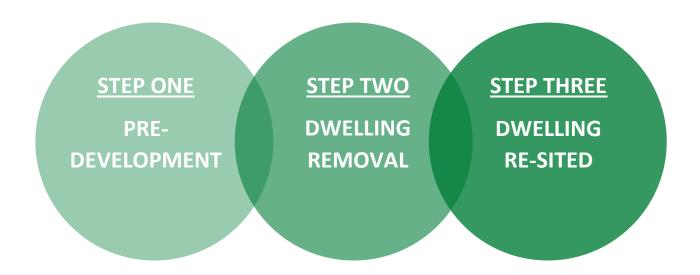
TABLE OF CONTENTS

| Overview | 2 |
|--|---|
| Step One - Pre-development | 3 |
| Step Two - The removal of the dwelling from its current location | 4 |
| Step Three - The approval for the relocated dwelling at the new site | 5 |
| Frequently Asked Questions (FAQ's) | 5 |
| APPENDIX ONE - Re-sited Dwelling DA Checklist | 7 |
| APPENDIX TWO – Re-sited Dwelling DA Pack | 8 |

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To assist with our **community's recovery**, Lismore City Council has prepared this guide to assist residents who have received a buyback offer from the NSW Reconstruction Authority (NSW RA) and are relocating their eligible dwelling to another site.

Council supports the relocation of houses from one site to another, which can be moved either within the Lismore area or to another LGA.



STEP ONE – Pre-development

If you are looking to relocate your dwelling, it is **highly recommended** that you first contact the NSW RA to ensure that:

- you are eligible to relocate your dwelling to another location; and
- the proposed new location meets the NSW RA's policies in regards to re-siting dwellings to flood prone land.

Following this, it is then recommended to speak with one of Council's Duty Planners. Council staff can:

- assist you to navigate the relocation process specific to your circumstances;
- provide guidance to identify land constraints and key considerations early in the process;
- determine what type of approval you may need;
- provide advice regarding the preparing the necessary documents; and
- allow you the opportunity to ask questions.

This meeting can be arranged by phoning **02 6625 0500** and can be held either face to face or over the phone.

STEP TWO - The removal of the dwelling from its current location

Council acknowledges that not all homeowner's relocation journey will be the same – we have provided a few of the most common scenarios below:

Demolition or Temporary Storage within Lismore LGA

Your existing dwelling can be demolished or temporarily relocated and 'stored' on another site **without the need for development approval** within the Lismore LGA.

- If the dwelling is to be relocated and temporarily stored on a new site, the NSW RA have requested property owners obtain a Letter of Confirmation from Council. Council is happy to provide this service free of charge prior to the relocation occurring.
- Once temporarily installed at the new site, installation of suitable temporary construction site measures must be implemented to the satisfaction of Council.

NOTE: Council reserves the right to withhold the abovementioned letter should the proposed site be identified as particularly problematic/constrained.

Removal and relocation within Lismore LGA

Where a dwelling is proposed to be relocated to another site within Lismore's LGA, one DA only is required to be submitted for consideration and approval. That is, a combined DA for the removal and relocation of the dwelling from the original site onto the proposed site. Refer to the Frequently Asked Questions (see below), Re-sited Dwelling DA Checklist (Appendix One) and Re-sited Dwelling DA Pack (Appendix Two)

Removal and relocation to another LGA

When a dwelling is being relocated to a site outside of the Lismore LGA, no DA is required for the removal, however, a Letter of Confirmation shall be obtained from Council prior to the removal and relocation (for non-heritage dwellings only - refer below for details regarding heritage items and/or heritage conservation areas).

It should also be noted that a DA will need to be lodged and approved with the Council responsible for the site where the dwelling is being moved to (for the installation or temporary storage).

Heritage Items and/or Heritage Conservation Area

Properties that contain a Heritage Item or are located within in a Heritage Conservation Area are required to obtain Development Approval (DA) for **both the demolition and relocation**.

- If you are relocating the dwelling to another site that you own in the Lismore LGA, one DA (combined removal and installation) can be considered.
- If you are relocating the dwelling to another site outside of the Lismore LGA, separate DA's will be required to be lodged with LCC (for the removal) and with the Council responsible for the site where the dwelling is being moved to (for the installation).

STEP THREE- The approval for the relocated dwelling at the new site

A streamlined approval pathway is being delivered by Council for homes being relocated under the NSW RA Resilient Homes Program.

A Development Application (DA) is required to be obtained to relocate a dwelling to a new site within the Lismore LGA

A *Re-sited Dwelling DA Checklist* (Appendix One) and *Relocated Dwelling DA Pack* (Appendix Two) have been prepared to assist you to assemble the documents required to lodge the streamline DA and other approvals you may require.

Frequently Asked Questions

What should I do to prepare for my Pre-development meeting?

Council understands that this process can be quite complex – upon request, you be provided with this guide and the *Re-sited Dwelling DA Pack*. Council's Duty Planner can review the required items you have prepared (refer to Appendix One), so please bring them with you.

If you have booked a phone meeting, you will be able to provide this information via email prior to the meeting.

Do I have to attend a Pre-development Meeting?

No, this is an optional service.

Can I really demolish or temporarily store my dwelling within the Lismore LGA without development approval?

Yes – however you are required by the NSW RA to first obtain a Letter of Exemption from Council. There will be no associated cost for this service. Properties that contain a Heritage Item or are located within in a Heritage Conservation Area are required to obtain Development Approval (DA) for both the demolition and relocation.

Can I move my dwelling outside of the Lismore LGA?

Yes – you will need to obtain development approval from the local Council where the re-sited dwelling is being moved to. In this instance, you <u>do not</u> need to obtain formal development approval from Lismore City Council to remove the dwelling from the existing site. A Letter of Exemption for the removal from your existing site can be requested from Council prior to any works commencing.

What type of other site management is required?

Some of the more common requirements include:

- temporary construction safety fencing;
- Erosion and Sediment control measures (these are usually quite simple for single dwellings and Council can provide more site specific advice if required).
- Disconnection of all services by a suitably qualified professional including, but not limited to:

Minimum Level 2 Electrician for all electrical disconnections; and

NSW licensed plumber for all water, sewer & gas disconnections.

There are trees blocking access needed to relocate my dwelling – what can I do?

For trees on Private Land – submit a Tree Pruning/Removal Application, found on Council's website <u>https://forms.lismore.nsw.gov.au/forms/6810</u> Council's Tree Officer will assess the application and advise you of the outcome.

For trees on Council Land – please send any images and/or species details to <u>council@lismore.nsw.gov.au</u> attention: Tree Officer.

NOTE: Any tree removal undertaken on either Private or Council land is to be done so by the applicant seeking to re-site the dwelling.

In what condition can I leave my existing property after I remove the dwelling?

This will vary and is dependent on your contracted agreement with NSW RA. It is recommended you discuss this directly with your Case Manager.

How do I lodge the applications?

Development Applications, S68, S138 and Construction Certificates must be lodged through the NSW Planning Portal <u>https://www.planningportal.nsw.gov.au</u>. A concierge service is being offered by the NSW RA to assist owners with this process.

How long will it take to get my DA?

Lismore City Council is committed to providing a streamline assessment that processes applications for flood affected properties as quickly as possible. It is anticipated that this may generally occur within four weeks if the correct information has been provided with the application.

How much will it cost?

Fees for DA's are based upon the cost of works required by NSW Planning Legislation to be provided on all Development Applications – for advice on generating an estimate for your development, please discuss with Council's Duty Planner during your Pre-Development meeting.

Is there any financial assistance available?

The Lismore Housing Grant Program provides grants of \$15,000 to eligible owner/ occupier of a flood affected house in Lismore who want to relocate their existing house to another site within the Lismore LGA (provided they do not own any other residential property). Further information regarding this grant can be found on Council's website https://www.lismore.nsw.gov.au or you can contact the Housing Grant Officer directly on 02 6625 0500.

APPENDIX ONE Re-sited Dwelling DA Checklist

For your DA application, you will need to provide the following:

| PHOTOS | |
|---|-------------|
| Provide photos of each elevation/side of the existing dwelling | □ Yes |
| | |
| FLOOR PLAN | |
| Provide a floor plan of the internal layout of the existing dwelling – this can be | □ Yes |
| hand drawn however plans should include dimensions and rooms names | |
| | |
| SITE PLAN | |
| Provide a site plan of the new site – this can be aerial/satellite imagery, with | |
| the distances from the proposed relocated dwelling to the boundary | □ Yes |
| | |
| STATEMENT OF ENVIRONMNETAL EFFECTS (SEE) | |
| Fill out the Statement of Environmental Effects – Re-sited Dwelling form* | □ Yes |
| | |
| OWNERS CONSENT | |
| Provide Owners Consent of the land at the time you lodge your DA.* | □ Yes |
| | |
| COST SUMMARY REPORT | |
| Complete the Applicants Cost Summary Report.* | |
| | |
| BUSHFIRE ASSESSMENT REPORT | |
| If the new site is mapped as being Bushfire Prone -complete the NSW RFS | □Yes □N/A |
| Single Dwelling Bushfire Assessment* | |
| | |
| S68 WATER AND SEWER | |
| Sewered Land – Provide a site plan of the proposed site that identifies the | □ Yes □ N/A |
| location of the proposed pipes from the dwelling to the sewer connection point | |
| - this can be hand drawn. | |
| | |
| OR | |
| OR | |
| Uncovered Land Drovide on OSSM Depart properted by a suitably successful | □ Yes □ N/A |
| Unsewered Land – Provide an OSSM Report, prepared by a suitably qualified consultant | |
| | |
| S138 DRIVEWAY CROSSOVER | |
| | |
| If a new driveway is required, provide a Site plan showing the location of the | □ Yes □ N/A |
| driveway from the edge of the road to the property boundary. | |
| | |
| ENGINEER DRAWINGS - OPTIONAL | |
| If you have already obtained Engineer Drawings, you can submit these to form | □ Yes □ N/A |
| part of the DA. This is not compulsory however Engineer drawings will be | |
| required at the Construction certificate stage. | |
| *Refer to Appendix 2 to obtain this form | |

*Refer to Appendix 2 to obtain this form

NOTE: Some rural properties may be required to provide a Preliminary Contaminated Land Assessment – this will be advised during your Pre-development meeting.

CONSTRUCTION CERTIFICATE: After the DA is approved, a **Construction Certificate (CC)** will be required. This can be lodged either concurrently (whilst the DA is being assessed) or after the DA is approved. Engineer design and certification for the footings, bracing and structural soundness to be submitted at this stage however your House Removal company may require engineer drawings early on to provide a detailed quote.

<u>OCCUPATION CERTIFICATE</u> Once the CC has been approved and the works are completed, an Occupation Certificate will be required. This is also lodged via the NSW Planning Portal.

This pack includes:

Statement of Environmental Effects - Re-sited Dwelling Applicants Cost Summary Report Owners Consent Form NSW RFS Single Dwelling Application Kit

Statement of Environmental Effects Re-sited Dwelling



About this form

A Statement of Environmental Effects (SEE) is required to accompany all development applications. This Statement of Environmental Effects template is designed to form an attachment to the Development Application. It can only be used for the relocation of dwellings for properties identified as a part of the Resilient Homes Scheme delivered by the NRRC.

How to complete this form

- 1. Ensure that all fields have been filled out correctly.
- 2. Once completed this form should be uploaded and lodged via the NSW Planning Portal.

The SEE is utilised to address the impacts that are relevant to your proposal. You are encouraged to expand upon the material provided in any way you perceive as relevant.

Where potential impacts are identified, please ensure that you provide relevant comments and information on the measures that are proposed in order to mitigate against those impacts. You may need to provide additional pages/documentation (etc.) as an attachment to this SEE.

□ I have provided supporting information on pages/documents attached to this SEE.

| Application Details | | | | |
|---------------------------------|-------------|---------|--|--|
| Name | | | | |
| | | | | |
| Existing Site Address Number | Street Name | | | |
| Building Name (if kno | own) | Suburb | | |
| Lot | DP | Section | | |
| Proposed Site | | | | |
| Address Number | Street Name | | | |
| Building Name (if kno | own) | Suburb | | |
| Lot | DP | Section | | |

| Pre-Development Meeting | | |
|---|----------------------------------|----------------------|
| Have you attended a Pre-development meeting with Council's Duty Planner? | □ Yes | □ No |
| Site Considerations | | |
| Does the new site have a building envelope? If yes, is the dwelling going to be located within the building envelope? Is there any other dwellings on the property? If yes, please specify the distance between the existing and re-sited dwelling below Is the new site mapped as being Bushfire Prone Land? | □ Yes □ Yes □ Yes □ Yes | □ No □ No □ No |
| Comments | | |
| | | |
| | | |
| Planning Controls Is your proposal permissible in the zone? Is your proposal consistent with the zone objectives? Is your proposal in accordance with the relevant development control plan? | □ Yes □ Yes □ Yes | □ No □ No □ No |
| Comments | | |
| | | |
| | | |

| Waste and Stormwater Disposal | | |
|--|---------|--------------------------|
| How will effluent be disposed of? How will stormwater (from roof and hard standing) be disposed of: Council drainage system Other (if other provide details) | □ Sewer | □ OSSM |
| Does the development propose to have rainwater tanks? | □ Yes | □ No |
| Comments | | |
| | | |
| Access Troffic and Hillidian | _ | |
| Access, Traffic and Utilities Are additional access points to a road network required? Is power, water, electricity, sewer and telecommunication services readily available to the site? | | □ No □ N/A □ No □ N/A |
| Comments | | |
| | | |

Flora and Fauna

| • | Will the development result in the removal of any native vegetation from the | □ Yes | 🗆 No | □ N/A |
|---|--|-------|------|-------|
| | site? | | | |

• Is the development likely to have any impact on threatened species or native □ Yes □ No □ N/A habitat?

(If the answer is yes to either of the above questions it may be necessary to have a formal seven part test completed to assess the impact on threatened species – applicants are encouraged to consult Council)

Comments

Other Relevant Matters

(Please provide further details below or attach additional pages if required)

I/we declare to the best of my/our knowledge and belief, that the particulars stated on this document are correct in every detail and that the information required has been supplied. I/we acknowledge that the development application may be returned to me/us if information is found to be missing or inadequate.

| Signature | Signature |
|-----------|-----------|
| Name | Name |
| Date | Date |

Legal Reference

Section 78A(9) of the *Environmental Planning and Assessment Act 1979* states that the regulations may specify what is required to be submitted with a development application.

The Applicant is advised that Council will make copies (including electronic copies) of the development application and accompanying documents for the purpose of complying with its obligations under the *Environmental Planning and Assessment Act 1979*, the *Local Government Act 1993* and Notification Policy. In addition, the Council may make such further copies as, in its opinion, are necessary to facilitate a thorough consideration of the development application by Council and public participation in the development assessment process. This will include making copies of the advertised plans, supporting documentation and the determination available on Council's website to be viewed by members of the public. Online documents will be read only documents. The Applicant is responsible for obtaining all copyright licences necessary from the copyright owners for this purpose.



APPLICANTS COST SUMMARY REPORT

RESITED BUILDINGS

Relocation of Dwellings – in association with the Resilient Homes Program

| TYPE OF DEVELOPMENT | PROPOSED SIZE | COST \$ |
|------------------------------------|---------------|----------|
| Example: | | |
| Footings | 100m2 | \$10,000 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| GST for all development related fe | es 10% | |
| | | |
| Total development cost | | |

I certify that I have:

- 1. Provided the estimated costs of the proposed development and that those costs are based on industry recognised prices.
- 2. The estimated costs have been prepared having regard to the matters set out in the Environmental Planning and Assessment Regulation 2021.

| SIGNED: | | | |
|---------|------|--|--|
| | | | |
| | | | |
| NAME: | | | |
| | | | |
| | | | |
| DATE: | | | |

Owners Consent Form

Lismore City Council, PO Box 23A, Lismore 2480 Ph. 02 6625 0500 Email: <u>council@lismore.nsw.gov.au</u>

This form may be used for:

- □ Consent to lodge a Development Application
- Consent to modify a Development Consent (S4.55)
- □ Consent to lodge a Section 68 Application
- Consent to lodge a Construction Certificate

□ Consent to lodge a Section 138 Application

□ Application for a Cemetery and/or Burial on Private Land

Before you Lodge

About this form

This form can be used as an owner's consent form for any of the applications listed above.

How to complete this form

- 1. Ensure that all fields have been filled out correctly.
- 2. Please note that fields on this form marked with an * are mandatory and must be completed before submitting the application.
- 3. Once completed you can submit this form as part of your application documentation

| Part 1: Details of Property | | | | |
|---------------------------------|---------------------------|--|--|--|
| Address No. Street Name * | | | | |
| Suburb | Nearest Cross Street/Road | | | |
| Lot DP | Section | | | |
| Part 2: Applicant Name Only | | | | |
| Title * Given Name/s | Family Name | | | |
| | | | | |
| Organisation/Company Name | | | | |
| | | | | |
| Part 3: Description of Proposal | | | | |



| Part 4: | Owner's Details (a | all owners names) | |
|----------|---------------------------|-------------------|---------------|
| Title * | Given Name/s | F | amily Name |
| Title * | Given Name/s | F. | amily Name |
| Title * | Given Name/s | F | amily Name |
| Title * | Given Name/s | F. | amily Name |
| Organisa | tion/Company Name | | |
| Address | | | |
| Home Nu | mber | Business Number | Mobile Number |
| Fax Num | | Email Address | |
| Dart 5 | Owner's Consent | | |

Every owner of the land must sign this form. When works affect a joint wall, consent of both property owners is required (eg semi-attached or units). If the owner is a company, the form must be signed by an authorised director. If the property is a unit under strata title or a lot in a community title, then In addition to the owners signature the common seal of the body corporate must be stamped on this form over the signature of the owner and signed by the chairman or secretary of the Body Corporate or the appointed managing agent. If the land is crown land, an authorised officer of the Department of Lands must sign the application an original signature must be provided. If the land is owned by Council, the General Manager or delegate must sign the application.

As owner/s of the land nominated above, I/we consent to lodgement of the application(s) described on this form.

I/we also consent for authorised council officers to enter the land or premises to carry out inspections and surveys or take measurements or photographs as required for the administration of the Act(s), Regulations or Planning Instrument.

I/we acknowledge that applications will be published on DA Tracking on Council's website and have read and understand the information on Page 3 of this form.

Please note: If you are signing on the owner's behalf as the owner's legal representative, you must state the nature of your legal authority and attach documentary evidence (e.g. power of attorney, executor, trustee, company director, etc). If the land is Crown land, an authorised officer of the Department of Lands (or Trustee) must sign the application. An original signature must be provided.

| Owners Signature |
|------------------|
| |
| |
| Owners Signature |
| |
| |
| Owners Signature |
| |
| |
| Owners Signature |
| |
| |
| |

| Part 5: Owner's Consent Continued | |
|-----------------------------------|------------------|
| Owners Name | Owners Signature |
| | |
| | |
| | |
| Date | |
| | |
| | |
| | |

Part 6: Conflict of Interest

To ensure transparency in Council's decision making process and to avoid potential conflicts of interest, owners are to make a declaration as to whether they are a Council employee or are a friend/ relative / associate to a Council employee or Councillor.

| I am a Council Employee or Councillor | □ Yes | □ No |
|--|-------|------|
| I am a friend, relative or associate to a Council Employee or Councillor | □ Yes | □ No |
| If yes, state relationship | | |

Part 7: Important Information / Privacy Information

Privacy Notification

1) The information you provide in this application is personal information for the purposes of the *Privacy and Personal Information Protection Act 1998* which will enable Council staff (or any appointed agent), and any relevant state agency, and the community to consider/assess your application under the *Environmental Planning and Assessment Act 1979* and other applicable State legislation. The supply of the information by you is voluntary, however, if you cannot provide or do not wish to provide the information sought, your application may not be accepted. You have the right to access and have corrected information provided in your application. Please ensure that the information is accurate and advise us of any changes. Address enquires concerning this matter to Council's Governance Section.

Access to Information

- 2) The Government Information (Public Access) Act & Regulation 2009 states that it does not apply to so much of the information as consists of:
 - (a) the plans and specifications for any residential parts of a proposed building, other than plans that merely show its height and its external configuration in relation to the site on which it is proposed to be erected, or
 - (b) commercial information, if the information would be likely to prejudice the commercial position of the person who supplied it or to reveal a trade secret.

Council considers that persons inspecting the plans of a proposed development that may impact on their amenity cannot effectively do so without knowledge of the basic internal layout e.g. Living rooms, bedrooms etc where privacy from overlooking may be a problem. Accordingly, applicants and owners are requested, as part of signing this application, to give permission for persons, as part of the Notification Process, to inspect the internal plans accompanying the application. Council will not permit copies to be taken or extracts made of internal plans. Internal plans of residential premises will not be published on Council's website. As Council is unlikely to be aware of sensitive commercial information, it is the applicant's responsibility to ensure that such information is clearly identified and separate from other application documentation, and any requirements relating to disclosure of the information specified, or the information will other wise be made publicly available by Council.

DA Tracking and Notification

3) Online DA tracking is a software product that allows all customers to view plans, details and to track the progress of a Development Application throughout the assessment process. It represents key milestones in the Development Application process however, it is not a detailed history. Persons wishing to confirm information in detail should contact Council via either the email facility at the bottom of the Development Application tracking window, or in writing in order to obtain a written response. The information that can be viewed online is clearly labelled in the relevant application checklists. Please refer to the Development Application Checklist at the back of this form. All items labelled 'Online DA Information' in red will be publicly accessible through Council's website. Please also refer to the Copyright note.

4) Development applications will be publicly notified/advertised in accordance with Council's Community Participation Plan.

DA Decision Making

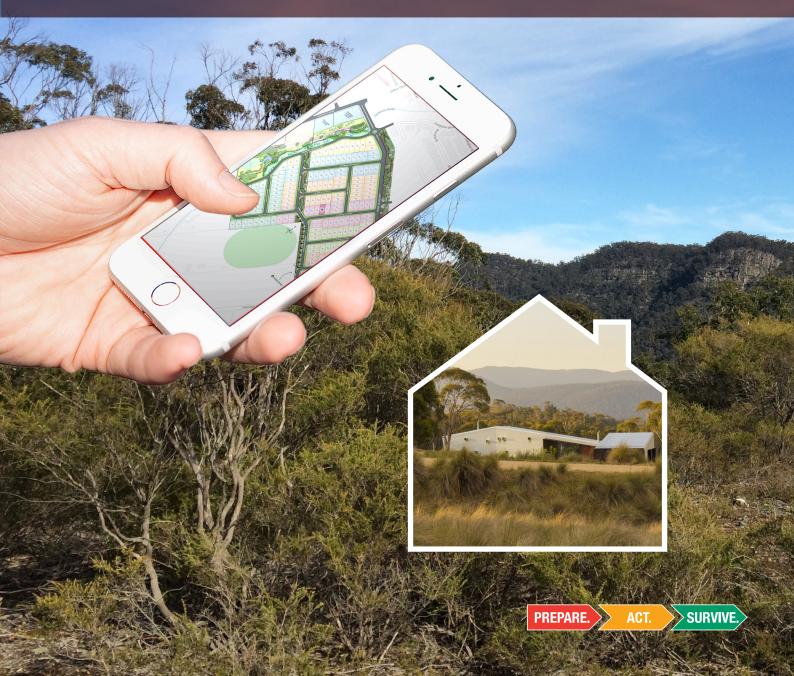
5) If in the opinion of Council Officers any significant issues of public interest or policy and material impacts are identified, the application will most likely be reported to a Council meeting, otherwise qualified staff will made a decision under delegated authority.

Copyright Note

6) The applicant is advised that Council may use or make copies (including electronic copies) of the development application and accompanying documents for the purpose of complying with its obligations under the Environmental Planning and Assessment Act 1979, the Local Government Act 1993, the Roads Act 1993 and Council's Community Consultation Policy. In addition, the Council may make such further copies as, in its opinion, are necessary to facilitate a thorough consideration of the development application by Council and public participation in the development assessment process. This will include making copies of the advertised plans, supporting documentation and the determination available on Council's Strategic Planning purposes. The applicant is responsible for obtaining all copyright licenses necessary from the copyright owners for this purpose.



BUILDING IN BUSH FIRE PRONE AREAS SINGLE DWELLING APPLICATION KIT



Foreword

This kit provides applicants with a streamlined approach to meeting the requirements of "Planning for Bush Fire Protection 2019 (PBP 2019)". It has been developed to assist applicants in providing information in support of a development application so that compliance with PBP can be assessed and documented as appropriate.

This kit takes you through each step in the bush fire assessment process and explains how to complete the Bush Fire Assessment Report (BFAR) which will need to accompany your Development Application (DA). This document is intended for use only where the proposed development are on existing land having a dwelling entitlement and where no new infrastructure for example roads and hydrant systems are required. Where the intention is to increase the residential density of a site like dual occupancies, multiple dwellings, boarding homes, workers cottages and any other similar proposals, a bush fire assessment report may be required for existing development. Furthermore, it is intended for use only where the bush fire assessment is straightforward from a vegetation classification and slope calculations being considered. For other situations, the services of a suitably qualified bush fire consultant should be obtained.



Fig 1. RFS publication Planning for Bush Fire Protection 2019.

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Disclaimer:

Any representation, statement opinion, or advice expressed or implied in this publication is made in good faith on the basis that the State of New South Wales, the NSW Rural Fire Service, its agents and employees are not liable (whether by reason of negligence, lack of care or otherwise) to any person for any damage or loss whatsoever which has occurred or may occur in relation to that person taking or not taking (as the case may be) action in respect of any representation, statement or advice referred to above.

Prepared by NSW Rural Fire Service – April 2020 Revised version April 2020

Contents

| SECTION 1 | 4 |
|---|----|
| Who should use this Kit | 4 |
| Legislative context and submission requirements | 4 |
| Determining if your property is on bush fire prone land? | 4 |
| How to use this kit | 4 |
| Design Principles for Building on Bush Fire Prone Land | 4 |
| PART A | 5 |
| Property Details | 5 |
| PART B | 5 |
| Type of Proposal | 5 |
| PART C | 5 |
| Determining Construction Levels Required (Bush Fire Attack Levels, or BAL) | 5 |
| Classification of Vegetation Formations Chart | 6 |
| NSW Local Government Areas Fire Danger Index | |
| PART D | |
| Flame Zone | |
| PART E | |
| Water Supplies | 14 |
| Water Requirements: | 14 |
| PART F | 16 |
| Gas Supplies | 16 |
| PART G | 16 |
| Access | 16 |
| PART H | 17 |
| Asset Protection Zones | 17 |
| Dictionary | 18 |

SECTION 2

| SECTION 2 | 19 | |
|--|------|--|
| Bush Fire Assessment Report | . 19 | |
| PART A: Property details | . 19 | |
| PART B: Type of proposal | . 19 | |
| PART C: Bush fire attack and level of construction | . 20 | |
| PART D: Flame zone | . 23 | |
| PART E: Water supplies | . 23 | |
| PART F: Gas supplies | . 24 | |
| Part G: Access | . 24 | |

Section 1

Who should use this Kit

This kit is intended to be used to provide the relevant consent authority with the information needed so that they can assess your proposed development in accordance with the EP&A Act section 4.14.

This kit will assist people building a new house or altering or adding to an existing building on bush fire prone land. Not all councils will accept the single dwelling application kit so check with your local council before proceeding. If the requirements in this kit cannot be met then a performance based solution may be needed and a suitably qualified bush fire consultant may be able to assist.

Legislative context and submission requirements

The NSW Rural Fire Service (NSW RFS) has, under the Rural Fires Act 1997, a statutory obligation to protect life, property and the environment through fire suppression and fire prevention.

In response to devastating losses in past bush fires, the NSW Government enacted legislative changes to ensure bush fire matters are considered in the development process.

Section 4.14 of the *Environmental Planning and Assessment Act 1979* which all new development on bush fire prone land to comply with PBP 2019.

This kit is intended to provide you with a method for assessing compliance with PBP 2019 for new building and for alterations and additions to existing buildings.

Development Applications (DA) on bush fire prone land must be accompanied by a Bush Fire Assessment Report (BFAR) which explains how compliance with PBP 2019 is to be achieved.

The BFAR which is contained in the pullout section of this kit must address the following:

- a statement that the site is on bush fire prone land (BFPL);
- > the location, extent and vegetation formation of any bushland on or within 140 metres of the site;
- the slope under the vegetation hazard for each aspect using the steepest slope within 100 metres of the site;
- any features on or adjoining the site that may mitigate the impact of a bush fire on the proposed development;

- a statement assessing the likely environmental impact of any proposed bush fire protection measures (BPMs) and associated works;
- a site plan showing access, water supplies, asset protection zone (APZ) requirements, bush fire attack level (BAL) and building footprints in relation to the bush fire hazards.

Determining if your property is on bush fire prone land?

To determine if your proposed development is on bush fire prone land you will need to check with your local council or use the BFPL Tool on the NSW RFS website www.rfs.nsw.gov.au.

Planning law in NSW requires new development on bush fire prone land to comply with the provisions of PBP 2019.

How to use this Kit

The Kit will take you through each step in the bush fire assessment process and help you describe the site characteristics required to complete this assessment. The assessment will give you the BAL for your property and will guide you in determining the appropriate BPMs that are required for your proposed development.

To complete the pull-out BFAR (Section 2) you should work through the bush fire assessment.

Details regarding what construction materials and designs are required for each BAL are contained within AS3959-2018 *'Construction of buildings in bushfire-prone areas'* (AS3959-2018).

Further information on bush fire protection requirements can be found in PBP 2019 which is available on the NSW RFS website.

Design Principles for Building on Bush Fire Prone Land

The design of a building can be enhanced to reduce the effects of bush fire attack by:

- providing ember protection and building away from the flame zone;
- > avoiding building on ridge tops and saddles;
- > building on level ground wherever possible;
- building on cut-in benches rather than elevated areas;
- > avoiding raised floors, utilise concrete slabs;
- locating habitable buildings near the property entrance for easier access/egress;

- using non-combustible fencing and barriers (e.g. courtyards, fenced off areas for gardens, BBQ areas and the like) to shield the building from the hazard;
- reducing the bulk of a building (height and width) facing a bush fire hazard; and

simplifying the design of buildings to reduce the numbers of re-entrant corners.

Part A

Property Details

In Section 2 (A), fill in the property details for the site or buildings you plan to develop.

It is important to accurately identify your property to be developed. Your Statement of Environmental Effects which is generally included as a council requirement with your DA will often include a map showing the property location within the broader locality. If this is not done you should include it in this report.

Your contact details will assist council to quickly obtain additional information or to arrange a site inspection if needed.

It is important to clearly identify whether your property is on BFPL. Tick the box to indicate that the property has been checked against the Council's Bush Fire Prone Land Map or the NSW RFS BFPL Tool.

Part B

Type of Proposal

In Section 2 (B), tick the applicable boxes for the type of proposal.

Provide a brief written description of the type of building (i.e. single or two storeys) and what you are proposing to do. With alterations and additions, list the proposed works.

Attach a copy of the plans for the building you are proposing to build or the modifications you are making. Include a copy of any plans for landscaping. Tick the box to show that plans are included.

Part C

Determining Construction Levels Required (Bush Fire Attack Levels, or BAL)

To determine the BAL for a building the following steps must be followed:

STEP 1: Determine the vegetation type

- **STEP 2:** Determine the distance from the building to the bush fire vegetation hazard
- **STEP 3:** Determine the effective slope

STEP 4: Determine FFDI

STEP 5: Determine BAL Level

STEP 6: Determine BAL construction requirements

If grasslands are the only vegetation bush fire hazard then you can use the grassland deeming provisions instead of the above assessment process. If you choose to use the grassland deeming provisions refer to Step 5 below.

Explanation of steps

Step 1: Determine the vegetation type

You will need to determine the vegetation around your property to at least 140 metres in all directions from the proposed building.

Check the chart at page 6 of this document to help determine your vegetation type.

For each compass direction (normally north, south, east and west) surrounding your home, identify on the assessment sheet, using the table provided on the inside rear fold-out cover, what vegetation type your building is exposed to.

If you are unsure of the vegetation classification, you may wish to enlist the assistance of suitably qualified bush fire consultant for advice.

NOTE: Where there is more than one vegetation type each type shall be classified separately with the worst case scenario (the most dominate vegetation for bush fire impact) applied.



Classification of Vegetation Formations Chart















Photos supplied by Hotspots Fire Project

Forests

Open tree canopy dominated by eucalypt species (typically >10m in height) with crowns that touch or overlap. Canopy allows most sunlight to penetrate supporting growth of a prominent understorey layer varying between hard-leaved shrubs to luxuriant soft leaved shrubs, ferns and herbs.

Woodlands

Dominated by an open to sparse layer of eucalypts with the crowns rarely touching. Typically 15-35m high (may be shorter at sub-alpine altitudes). Diverse ground cover of grasses and herbs. Shrubs are sparsely distributed. Usually found on flat to undulating ground.

Tall Heaths (Scrub)

Shrubby vegetation greater than 2 metres tall. Principal plant species include banksias, spider flowers, wattles, legumes, eucalypts, tea-trees, paper barks, she oaks, grass trees, cord rushes and sedges. Grasses are scarce. Not found in arid and semi arid locations. Includes Hawkesbury Sandstone vegetation with scattered overstorey trees and predominantly healthy understorey and coastal heath. May include some mallee eucalypts in coastal locations.

Short Heath (Open Shrub)

Shrubby vegetation less than 2 metres in height. Often more open in canopy. Principal plant species include banksias, spider flowers, wattles, legumes, eucalypts, teatrees, paper barks, she oaks, grass trees, cord rushes and sedges. Grasses are scarce. Not found in arid and semi arid locations.

Rainforests

Closed and continuous complex tree canopy composed of relatively soft, horizontally-held leaves. Generally lacking in eucalypts. Understorey typically includes ferns and herbs. Vines often present in canopy or understorey. Occur mainly in areas that are reliably moist, mostly free of fire and have soils of moderate to high fertility. Typically coastal and escarpment locations.

Grasslands

Dominated by perennial grasses and the presence of broad-leaved herbs on flat topography. Lack of woody plants. Plants include grasses, daisies, legumes, geraniums, saltbushes and copperburrs.

Managed Land

Non-vegetated or reduced vegetation areas such as: actively grazed pastures, maintained urban yards, maintained lawns, crops, orchards, vineyards, commercial nurseries, playing fields, golf course fairways, cleared parks, non-vegetated areas, formed roads and footpaths including cleared verges, waterways, etc.

Step 2: Determine the distance from the building to the bush fire vegetation hazard

Identify whether vegetation is located on your property or on an adjoining property.

For vegetation located on your property measure the distance from the building to vegetation and record.

If the vegetation is not located on your property measure the distance from the building to your boundary.

This needs to be done for each aspect of the building elevations that are exposed to bush fire vegetation hazards.

The measured distance is your APZ, see Part H for more details on APZs.

Step 3: Determine the effective slope

Measuring slope can be undertaken using various tools such as clinometers and surveying equipment. There are also commercially available phone applications however the following method is detailed where no equipment is provided.

Simple slope assessment methodology.

Method for estimating slope:

- 1. Pick a spot between 40 and 100m away and have an assistant of similar height stand as a reference point. If you do not have an assistant pick a nearby tree as a reference point and tie a bright ribbon or tape around the trunk at your eye height.
- 2. Standing at the edge of the slope or at some point on the slope to be measured, hold one end of a centimetre rule 30cm in front of your face, level with your eye so that it hangs down.
- 3. Looking past the rule at the assistant's head or marker, note how many centimetres on the rule their head is below your eye level.
- 4. The table below will convert this to a slope range.
- 5. It is important to hold the end of the rule at eye level and let it hang straight down 30cm in front so that a reasonable level of accuracy is gained.



Figure 2



Table 1

Method for estimating slope

Effective slope (degrees)

| Measurement on rule (cm) | Converted slope range |
|--------------------------|-----------------------|
| Less than or equal to 0 | Upslope or flat |
| 0 - 3 | 0 - 5º |
| 3 - 5 | 5 - 10° |
| 5-8 | 10-15° |
| 8-10 | 15 -20° |

Managed asset protection zone

 Measure slope under vegetation
 Not applicable for measurement of effective slope

 Image: Additional additionadditionadditional additional additional additional additional add

Figure 4

Relative slope

Shows how to refer to the slope in any direction relative to the building

Step 4: Determine FFDI

To determine the relevant FFDI, refer to the NSW Local Government Areas FDI reference below to the relevant Table number for each Council area.

Use the FDI value obtained as the appropriate FFDI value for your assessment.

NSW LOCAL GOVERNMENT AREAS FIRE DANGER INDEX (FDI)

FAR NORTH COAST (80)

- SHOALHAVEN (100)
- Ballina Byron Clarence Valley Kyogle Lismore Richmond Valley Tweed

NORTH COAST (80)

Bellingen Coffs Harbour Mid-Coast Port Macquarie-Hastings Kempsey Nambucca

GREATER HUNTER (100)

Cessnock Dungog Lake Macquarie Maitland Muswellbrook Newcastle Port Stephens Singleton Upper Hunter

GREATER SYDNEY REGION (100)

All Sydney Metropolitan Councils

Plus Blue Mountains, Hawkesbury and Central Coast

Kiama Shellharbour Shoalhaven Wingecarribee

ILLAWARRA/

Wollondilly Wollongong

FAR SOUTH COAST (100)

Bega Valley Eurobodalla

MONARO ALPINE (80)

Snowy Monaro

SOUTHERN RANGES (100)

Queanbeyan - Palerang Goulburn Mulwaree Upper Lachlan Yass Valley

CENTRAL RANGES (80)

Bathurst Blayney Cabonne Cowra Lithgow Mid Western Regional Oberon Orange

NEW ENGLAND (80)

Armidale Regional Glen Innes Severn Tenterfield Uralla Walcha

NORTHERN SLOPES (80) Gunnedah

Gwydir Inverell Liverpool Plains Tamworth Regional

NORTH WESTERN (80)

Moree Plains Narrabri Walgett Warrumbungle

UPPER CENTRAL WEST PLAINS (80)

Bogan Coonamble Gilgandra Warren

LOWER CENTRAL WEST PLAINS (80)

Bland Dubbo Regional Forbes Lachlan Narromine Parkes Temora

Weddin

SOUTHERN SLOPES (80) Hilltops

Cootamundra - Gundagai Snowy Valleys

EASTERN RIVERINA (80) Albury Coolamon

Coolamon Greater Hume Junee Lockhart Wagga Wagga

SOUTHERN RIVERINA (80) Berrigan Edward River Federation

Murray River Murrumbidgee

NORTHERN RIVERINA (80)

Carrathool Griffith Hay Leeton Narrandera Murrumbidgee

SOUTH WESTERN (80)

Balranald Wentworth

FAR WESTERN (80)

Bourke Brewarrina Broken Hill Central Darling Cobar Unincorporated NSW



Step 5: Determine BAL Level

Match the relevant FFDI, appropriate vegetation, separation distance and effective slope to determine the BAL applicable to the building (or associated area) from the following tables. This should be done for each side of the building.

Note: If your proposal is greater than 100m from vegetation then there are no construction requirements.

Table 2

Determination of bush fire attack level, FDI 80

| | | BUSH F | IRE ATTACK LE | /EL (BAL) | |
|--|--------|------------------|-----------------|------------------|-----------|
| KEITH VEGETATION FORMATION | BAL-FZ | BAL-40 | BAL-29 | BAL-19 | BAL-12.5 |
| | | Distance (m) ass | et to predomina | nt vegetation cl | ass |
| Rainforest | < 7 | 7 -< 9 | 9 -< 14 | 14 -< 20 | 20 -< 100 |
| Generation Second state Swamp Forest, Pine Plantations and Sub-Alpine Woodland | < 15 | 15 -< 20 | 20 -< 29 | 29 -< 40 | 40 -< 100 |
| Grassy and Semi-Arid Woodland (including Mallee) | < 8 | 8 -< 11 | 11 -< 16 | 16 -< 22 | 22 -< 100 |
| Forested Wetland (excluding Coastal Swamp Forest | t) < 6 | 6 -< 8 | 8 -< 12 | 12 -< 18 | 18 -< 100 |
| H Tall Heath | < 12 | 12 -< 16 | 16 -< 23 | 23 -< 32 | 32 -< 100 |
| Short Heath | < 7 | 7 -< 9 | 9 -< 14 | 14 -< 20 | 20 -< 100 |
| Short Heath Arid-Shrublands (acacia and chenopod) | < 5 | 5 -< 6 | 6 -< 9 | 9 -< 14 | 14 -< 100 |
| Freshwater Wetlands | < 4 | 4 -< 5 | 5 -< 7 | 7 -< 11 | 11 -< 100 |
| Grassland | < 7 | 7 -< 10 | 10 -< 14 | 14 -< 20 | 20 -< 50 |

How to use this table

- **STEP 1:** Determine the vegetation type
- **STEP 2:** Determine the distance from the building to the bush fire vegetation hazard
- **STEP 3:** Determine the effective slope
- **STEP 4:** Determine FFDI
- **STEP 5:** Determine BAL Level
- **STEP 6:** Determining BAL construction requirements

Example

Alterations to an existing building 24m away from forest vegetation on flat land in Tamworth.

- **STEP 1:** Vegetation = forest
- STEP 2: Distance = 24m
- **STEP 3:** Slope = flat
- **STEP 4:** FDI = 80
- **STEP 5:** Bush fire attack level = BAL- 29
- **STEP 6:** Provide information supporting construction requirements

Table 3

Determination of bush fire attack level, FDI 100

| | | | BUSH FI | RE ATTACK LEVI | EL (BAL) | |
|-------------------------------------|---|--------|-------------------|-----------------|------------------|-----------|
| KEITH VE | EGETATION FORMATION | BAL-FZ | BAL-40 | BAL-29 | BAL-19 | BAL-12.5 |
| | | | Distance (m) asse | t to predominan | t vegetation cla | ss |
| Rainf | orest | < 8 | 8 -< 11 | 11 -< 16 | 16 -< 23 | 23 -< 100 |
| Swan | st (wet and dry sclerophyll) including Coastal np Forest, Pine Plantations and Sub-Alpine dland | < 18 | 18 -< 24 | 24 -< 33 | 33 -< 45 | 45 -< 100 |
| ਜ਼ੇ Grass | sy and Semi-Arid Woodland (including Mallee) | < 9 | 9 -< 12 | 12 -< 18 | 18 -< 26 | 26 -< 100 |
| Fores | sted Wetland (excluding Coastal Swamp Forest) | < 7 | 7 -< 10 | 10 -< 14 | 14 -< 21 | 21 -< 100 |
| H Tall H | leath | < 12 | 12 -< 16 | 16 -< 23 | 23 -< 32 | 32 -< 100 |
| ្កូ Short | t Heath | < 7 | 7 -< 9 | 9 -< 14 | 14 -< 20 | 20 -< 100 |
| Arid- | Shrublands (acacia and chenopod) | < 5 | 5 -< 6 | 6 -< 9 | 9 -< 14 | 14 -< 100 |
| Fresh | nwater Wetlands | < 4 | 4 -< 5 | 5 -< 7 | 7 -< 11 | 11 -< 100 |
| Grass | sland | < 8 | 8 -< 10 | 10 -< 15 | 15 -< 22 | 22 -< 50 |
| | orest | < 11 | 11 -< 14 | 14 -< 21 | 21 -< 29 | 29 -< 100 |
| Swan | st (wet and dry sclerophyll) including Coastal np Forest, Pine Plantations and Sub-Alpine dland | < 22 | 22 -< 29 | 29 -< 40 | 40 -< 54 | 54 -< 100 |
| Grass | sy and Semi-Arid Woodland (including Mallee) | < 12 | 12 -< 16 | 16 -< 23 | 23 -< 32 | 32 -< 100 |
| ہٰ Fores | sted Wetland (excluding Coastal Swamp Forest) | < 9 | 9 -< 12 | 12 -< 18 | 18 -< 26 | 26 -< 100 |
| H Tall H | leath | < 13 | 13 -< 18 | 18 -< 26 | 26 -< 36 | 36 -< 100 |
| Short | t Heath | < 8 | 8 -< 10 | 10 -< 15 | 15 -< 22 | 22 -< 100 |
| S Arid- | Shrublands (acacia and chenopod) | < 5 | 5 -< 7 | 7 -< 11 | 11 -< 16 | 16 -< 100 |
| Fresh | nwater Wetlands | < 4 | 4 -< 6 | 6 -< 8 | 8 -< 12 | 12 -< 100 |
| Grass | sland | < 9 | 9 -< 12 | 12 -< 17 | 17 -< 25 | 25 -< 50 |
| | orest | < 14 | 14 -< 18 | 18 -< 26 | 26 -< 37 | 37 -< 100 |
| Swan | st (wet and dry sclerophyll) including Coastal np Forest, Pine Plantations and Sub-Alpine dland | < 28 | 28 -< 36 | 36 -< 49 | 49 -< 65 | 65 -< 100 |
| Grass | sy and Semi-Arid Woodland (including Mallee) | < 15 | 15 -< 20 | 20 -< 28 | 28 -< 39 | 39 -< 100 |
| Eoros | sted Wetland (excluding Coastal Swamp Forest) | < 12 | 12 -< 16 | 16 -< 23 | 23 -< 33 | 33 -< 100 |
| Tall H Short Arid- | leath | < 15 | 15 -< 20 | 20 -< 29 | 29 -< 40 | 40 -< 100 |
| Short | t Heath | < 9 | 9 -< 12 | 12 -< 18 | 18 -< 25 | 25 -< 100 |
| ♀ Arid- | Shrublands (acacia and chenopod) | < 6 | 6 -< 8 | 8 -< 12 | 12 -< 18 | 18 -< 100 |
| မှ် Fresh | nwater Wetlands | <5 | 5 -< 6 | 6 -< 10 | 10 -< 14 | 14 -< 100 |
| Grass | sland | < 10 | 10 -< 13 | 13 -< 20 | 20 -< 28 | 28 -< 50 |
| Rainf | orest | < 17 | 17 -< 23 | 23 -< 34 | 34 -< 46 | 46 -< 100 |
| Swan | st (wet and dry sclerophyll) including Coastal np Forest, Pine Plantations and Sub-Alpine dland | < 36 | 36 -< 45 | 45 -< 60 | 60 -< 77 | 77 -< 100 |
| Grass | sy and Semi-Arid Woodland (including Mallee) | < 19 | 19 -< 25 | 25 -< 36 | 36 -< 49 | 49 -< 100 |
| ္မ်ာ Fores | sted Wetland (excluding Coastal Swamp Forest) | < 15 | 15 -< 20 | 20 -< 29 | 29 -< 41 | 41 -< 100 |
| Tall H | leath | < 17 | 17 -< 22 | 22 -< 32 | 32 -< 44 | 44 -< 100 |
| Short | t Heath | < 10 | 10 -< 13 | 13 -< 20 | 20 -< 29 | 29 -< 100 |
| Arid- | Shrublands (acacia and chenopod) | < 7 | 7 -< 9 | 9 -< 14 | 14 -< 20 | 20 -< 100 |
| P Fresh | nwater Wetlands | < 5 | 5 -< 7 | 7 -< 11 | 11 -< 16 | 16 -< 100 |
| Grass | sland | < 11 | 11 -< 15 | 15 -< 23 | 23 -< 32 | 32 -< 50 |
| _ш Rainf | orest | < 23 | 23 -< 30 | 30 -< 42 | 42 -< 56 | 56 -< 100 |
| រភ្វី Swan | st (wet and dry sclerophyll) including Coastal np Forest, Pine Plantations and Sub-Alpine dland | < 46 | 46 -< 56 | 56 -< 73 | 73 -< 92 | 92 -< 100 |
| Grass | sy and Semi-Arid Woodland (including Mallee) | < 24 | 24 -< 32 | 32 -< 44 | 44 -< 59 | 59 -< 100 |
| ู่หู่ Fores | sted Wetland (excluding Coastal Swamp Forest) | < 19 | 19 -< 26 | 26 -< 37 | 37 -< 50 | 50 -< 100 |
| S Fores Tall H Short Arid- | leath | < 19 | 19 -< 25 | 25 -< 36 | 36 -< 49 | 49 -< 100 |
| B Short | t Heath | < 11 | 11 -< 15 | 15 -< 23 | 23 -< 32 | 32 -< 100 |
| | Shrublands (acacia and chenopod) | < 7 | 7 -< 10 | 10 -< 16 | 16 -< 23 | 23 -< 100 |
| Fresh | nwater Wetlands | < 6 | 6 -< 8 | 8 -< 13 | 13 -< 18 | 18 -< 100 |
| ^ Grass | sland | <13 | 13 -< 17 | 17 -< 26 | 26 -< 36 | 36 -< 50 |
| Grass | sland | <13 | 13 -< 17 | 17 -< 26 | 26 -< 36 | 36 -< 50 |



Determination of bush fire attack level, FDI 80

| | | | BUSH FIR | E ATTACK LEVE | L (BAL) | |
|--|--|--|----------|---------------|----------|-----------|
| KEITH VEGETATION FOR | MATION | BAL-FZ | BAL-40 | BAL-29 | BAL-19 | BAL-12.5 |
| | | Distance (m) asset to predominant vegetation class | | | | |
| Rainforest | | < 7 | 7 -< 9 | 9 -< 14 | 14 -< 20 | 20 -< 100 |
| | clerophyll) including Coastal lantations and Sub-Alpine | < 15 | 15 -< 20 | 20 -< 29 | 29 -< 40 | 40 -< 100 |
| Grassy and Semi-Arid | Woodland (including Mallee) | < 8 | 8 -< 11 | 11 -< 16 | 16 -< 22 | 22 -< 100 |
| Forested Wetland (ex | cluding Coastal Swamp Forest) | < 6 | 6 -< 8 | 8 -< 12 | 12 -< 18 | 18 -< 100 |
| Tall Heath | | < 12 | 12 -< 16 | 16 -< 23 | 23 -< 32 | 32 -< 100 |
| Short Heath | | < 7 | 7 -< 9 | 9 -< 14 | 14 -< 20 | 20 -< 100 |
| Arid-Shrublands (aca | cia and chenopod) | < 5 | 5 -< 6 | 6 -< 9 | 9 -< 14 | 14 -< 100 |
| Freshwater Wetlands | | < 4 | 4 -< 5 | 5 -< 7 | 7 -< 11 | 11 -< 100 |
| Grassland | | < 7 | 7 -< 10 | 10 -< 14 | 14 -< 20 | 20 -< 50 |
| Rainforest | | < 9 | 9 -< 12 | 12 -< 17 | 17 -< 25 | 25 -< 100 |
| | clerophyll) including Coastal lantations and Sub-Alpine | < 19 | 19 -< 25 | 25 -< 35 | 35 -< 47 | 47 -< 100 |
| Grassy and Semi-Arid | Woodland (including Mallee) | < 10 | 10 -< 13 | 13 -< 19 | 19 -< 28 | 28 -< 100 |
| | cluding Coastal Swamp Forest) | < 8 | 8 -< 10 | 10 -< 15 | 15 -< 22 | 22 -< 100 |
| Tall Heath | | < 13 | 13 -< 18 | 18 -< 26 | 26 -< 36 | 36 -< 100 |
| Short Heath | | < 8 | 8 -< 10 | 10 -< 15 | 15 -< 22 | 22 -< 100 |
| Forested Wetland (ex Tall Heath Short Heath Arid-Shrublands (acad | cia and chenopod) | < 5 | 5 -< 7 | 7 -< 11 | 11 -< 16 | 16 -< 100 |
| Freshwater Wetlands | | < 4 | 4 -< 6 | 6 -< 8 | 8 -< 12 | 12 -< 100 |
| Grassland | | < 8 | 8 -< 11 | 11 -< 16 | 16 -< 23 | 23 -< 50 |
| Rainforest | | < 11 | 11 -< 15 | 15 -< 22 | 22 -< 32 | 32 -< 100 |
| | clerophyll) including Coastal lantations and Sub-Alpine | < 24 | 24 -< 31 | 31 -< 43 | 43 -< 57 | 57 -< 100 |
| Grassy and Semi-Arid | Woodland (including Mallee) | < 12 | 12 -< 17 | 17 -< 24 | 24 -< 34 | 34 -< 100 |
| Forested Wetland (ex | cluding Coastal Swamp Forest) | < 10 | 10 -< 13 | 13 -< 20 | 20 -< 28 | 28 -< 100 |
| Tall Heath | | < 15 | 15 -< 20 | 20 -< 29 | 29 -< 40 | 40 -< 100 |
| Short Heath | | < 9 | 9 -< 12 | 12 -< 18 | 18 -< 25 | 25 -< 100 |
| Arid-Shrublands (aca | cia and chenopod) | < 6 | 6 -< 8 | 8 -< 12 | 12 -< 18 | 18 -< 100 |
| Freshwater Wetlands | | < 5 | 5 -< 6 | 6 -< 10 | 10 -< 14 | 14 -< 100 |
| Grassland | | < 9 | 9 -< 12 | 12 -< 18 | 18 -< 26 | 26 -< 50 |
| Rainforest | | < 14 | 14 -< 20 | 20 -< 29 | 29 -< 40 | 40 -< 100 |
| Swamp Forest, Pine P Woodland | clerophyll) including Coastal lantations and Sub-Alpine | < 30 | 30 -< 39 | 39 -< 52 | 52 -< 68 | 68 -< 100 |
| Grassy and Semi-Arid | Woodland (including Mallee) | < 16 | 16 -< 21 | 21 -< 31 | 31 -< 42 | 42 -< 100 |
| Forested Wetland (ex | cluding Coastal Swamp Forest) | < 12 | 12 -< 17 | 17 -< 25 | 25 -< 35 | 35 -< 100 |
| Tall Heath | | < 17 | 17 -< 22 | 22 -< 32 | 32 -< 44 | 44 -< 100 |
| Tall Heath Short Heath Arid-Shrublands (acad | | < 10 | 10 -< 13 | 13 -< 20 | 20 -< 29 | 29 -< 100 |
| Arid-Shrublands (aca | cia and chenopod) | < 7 | 7 -< 9 | 9 -< 14 | 14 -< 20 | 20 -< 100 |
| Freshwater Wetlands | | < 5 | 5 -< 7 | 7 -< 11 | 11 -< 16 | 16 -< 100 |
| Grassland | | < 10 | 10 -< 14 | 14 -< 21 | 21 -< 30 | 30 -< 50 |
| Rainforest | | < 19 | 19 -< 25 | 25 -< 36 | 36 -< 49 | 49 -< 100 |
| | clerophyll) including Coastal lantations and Sub-Alpine | < 38 | 38 -< 48 | 48 -< 63 | 63 -< 81 | 81 -< 100 |
| Grassy and Semi-Arid | Woodland (including Mallee) | < 20 | 20 -< 27 | 27 -< 38 | 38 -< 52 | 52 -< 100 |
| Forested Wetland (ex | cluding Coastal Swamp Forest) | < 16 | 16 -< 22 | 22 -< 32 | 32 -< 43 | 43 -< 100 |
| 요 Forested Wetland (ex 물 Tall Heath 스 Short Heath | | < 19 | 19 -< 25 | 25 -< 36 | 36 -< 49 | 49 -< 100 |
| Short Heath | | < 11 | 11 -< 15 | 15 -< 23 | 23 -< 32 | 32 -< 100 |
| Arid-Shrublands (aca | cia and chenopod) | < 7 | 7 -< 10 | 10 -< 16 | 16 -< 23 | 23 -< 100 |
| ^ ₽ Freshwater Wetlands | | < 6 | 6 -< 8 | 8 -< 13 | 13 -< 18 | 18 -< 100 |
| ^ Grassland | | < 12 | 12 -< 16 | 16 -< 24 | 24 -< 34 | 34 -< 50 |

Grassland Deeming Provisions

The Deeming Provisions for grasslands provides an acceptable set of simplified requirements for building in areas where grasslands are considered to be the only bush fire hazard. A site assessment as detailed in the previous Steps 1 to 5.

Table 5

Grassland Deeming Provisions

| BUSH FIRE PROTECTION MEASURE | GRASSLAND DEEMING PROVISIONS |
|------------------------------|--|
| | Iimited to a maximum of 15 degrees downslope; |
| | minimum APZ of 20m is provided between the building and unmanaged grass; |
| APZ | the APZ is wholly within the boundaries of the development site; and |
| | the APZ is maintained as a mown area with grass heights less than 100mm. |
| Construction | construction in accordance with BAL-12.5 of AS3959-2018 and any additional construction requirements in PBP 2019. |
| Access | > comply with the property access provisions in Part G. |
| Water supply | > comply with the water supply provisions in Part E. |
| Landscaping | comply with the relevant provisions in Appendix 4, PBP 2019 noting that other vegetation bush fire hazards cannot be present if these provisions are to apply. |

Step 6: Determining BAL construction requirements

Once the appropriate BAL has been determined in Step 5, AS3959-2018 and or/the NASH Standard 2014 will be used to determine the construction requirements for the proposed design.

Where the proposed development is exposed to a grassland bush fire hazard only (and no other hazards exist within 140m of the proposed development), the Grassland Deeming Provisions can be used instead of the above assessment process, as detailed below.

Where a distance of 50m or more of managed grass to a height of 100mm is to be provided, no further BPMs are required. Where a minimum maintained distance to unmanaged grass of at least 20m is to be provided, the set of provisions shown in Table 5 apply. Where the Grassland Deeming Provisions cannot be achieved, the standard assessment process outlined in Steps 1 to 5 must be adopted. The maximum slope for the Deeming Provisions is restricted to 15 degrees downslope.

For developments in grassland hazard areas where the deeming provisions are applied, compliance with Table 5 is required.

Part D

Flame Zone

If your property's category of bush fire attack is flame zone, your proposal will not be complying with the acceptable solutions of PBP 2019 and your DA will be referred to the NSW RFS.

In many situations, compliance with section 9 of AS3959-2018 may be sufficient to meet PBP 2019.

If your building is in the flame zone there are options you can choose between:

- You can obtain the services of a suitably qualified bush fire consultant to undertake a performance assessment and make recommendations to Council or;
- You can provide your assessment and report using Chapter 9 of AS3959-2018 or the NASH standard 2014 as the basis for the relevant bush fire protection measures for your proposed site.

Keep in mind that another option is to site the building outside the flame zone by allocating more land for an increased APZ. This will permit you to lower your required level of construction.

If you choose to prepare your own BFAR for a BAL-FZ situation you may need to introduce additional bush fire protection features in order to obtain Council approval. This is particularly relevant where a minimum setback distance of 10m is not provided to the hazard vegetation.

If at least a 10m setback is not able to be provided between the building and the bush fire hazard then AS3959-2018 requires all building elements to be tested to a specified bush fire testing standard.

For renovations and alterations the NSW RFS may also recommend that improvements are made to existing buildings in order to provide improved bush fire safety. These may include:

- Screening of existing windows for ember protection;
- > Gutter guards, leafless gutters and valleys; and
- Sealing of weep holes and other openings and external doors.

Part E

Water Supplies

Where reticulated water supply is not provided or is considered inadequate, an on site stored supply of water for firefighting will be required. Reticulated water supplies are those that are piped by council or a water authority.

Applicants should ensure they have adequate supplies of water (i.e. tanks, pools, etc) that will be available if the mains system fails or is not available (i.e. rural areas). Additional water can be either a dedicated or static water supply.

Static water supply is an alternative source of water that is guaranteed in a bush fire event, such as a rainwater tank, swimming pool or dam in addition to the mains water supply that could be utilised to fight fires.

Water Requirements:

The water supply requirements for development are as follows:

- Reticulated water is to be provided to the development, where available; and
- > A static water supply is provided where no reticulated water is available.
- Fire hydrant spacing, design and sizing comply with the relevant clauses of AS 2419.1:2005;
- Hydrants are not located within any road carriageway; and
- Fire hydrant flows and pressures comply with the relevant clauses of AS 2419.1:2005.
- All above-ground water service pipes external to the building are metal, including and up to any taps.
- > Where no reticulated water supply is available, water for firefighting purposes is provided in accordance with Table 6 below.
- A connection for firefighting purposes is located on the 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;



Figure 5 Gate Valve

- Underground tanks have an access hole of 200mm to allow tankers to refill direct from the tank;
- A hardened ground surface for truck access is supplied within 4m;
- 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;
- > Where pumps are provided, they are a minimum 5hp or 3kW petrol or diesel-powered pump, and are shielded against bush fire attack; any hose and reel for firefighting connected to the pump shall be 19mm internal diameter; and
- Fire hose reels are constructed in accordance with AS/NZS 1221:1997, and installed in accordance with the relevant clauses of AS 2441:2005.



Table 6

Dedicated water supply requirements for proposals where reticulated water supplies are not provided.

| Development Type | Water Requirement |
|--|--|
| Residential Lots (<1,000m2) | 5,000 l/lot |
| Rural-residential Lots (1,000 – 10,000m2) <1 ha | 10,000 I/lot |
| Large Rural/Lifestyle Lots (>10,000m2) >1 ha | 20,000 l/lot |
| Townhouse/Unit Style (e.g. Flats including Dual Occupancy) | 5,000 l/unit up to 20,000l maximum. |

Note: The figures in the above table are additional to Basix or any other requirements.

Part F

Gas Supplies

The plans submitted with your application need to show the location and type of bottled gas services within the property.

Reticulated or bottled gas needs to be installed and maintained in accordance with AS/NZS 1596:2014 - *The storage and handling of LP Gas* and the requirements of relevant authorities. Metal piping is to be used.

All fixed gas cylinders are to be kept clear of all flammable materials to a distance of 10m and shielded from bush fire hazards on the hazard side of the installation.

If gas cylinders need to be kept close to the building, the relief valves are to be directed away from the building and at least 2m away from any combustible material so that they do not act as a mechanism for fire spread. All connections are to be metal.

Polymer sheathed flexible gas supply lines and connections are not to be used.

Part G

Access

The following identifies the requirements from PBP 2019 that are required for property access. Not all access requirements will be applicable to a particular development due to site specific conditions (e.g. some dwelling sites may be located physically close enough to a public road to avoid the need for passing bays). However where compliance with the following requirements is not possible, a performance based solution may be needed.

There are no specific access requirements in an urban area where an unobstructed path (no greater than 70m) is provided between the most distant external part of the proposed dwelling and the nearest part of the public access road (where the road speed limit is not greater than 70kph) that supports the operational use of emergency firefighting vehicles. In circumstances where this cannot occur, the following requirements apply:

- Property access roads are two-wheel drive, allweather roads.
- The capacity of road surfaces and any bridges/ causeways is sufficient to carry fully loaded firefighting vehicles (up to 23 tonnes), bridges and causeways are to clearly indicate load rating.
- > There is suitable access for a Category 1 fire appliance to within 4m of the static water supply where no reticulated supply is available.
- At least one alternative property access road is provided for individual dwellings or groups of dwellings that are located more than 200m from a public through road;
- > minimum 4m carriageway width;
- in forest, woodland and heath situations, rural property roads have passing bays every 200m that are 20m long by 2m wide, making a minimum trafficable width of 6m, at the passing bay;
- a minimum vertical clearance of 4m to any overhanging obstructions, including tree branches;
- property access must provide a suitable turning area in accordance with PBP 2019 Appendix 3;
- curves have a minimum inner radius of 6m and are minimal in number to allow for rapid access and egress;
- the minimum distance between inner and outer curves is 6m;
- > the crossfall is not more than 10 degrees;
- maximum grades for sealed roads do not exceed 15 degrees and not more than 10 degrees for unsealed roads; and
- a development comprising more than three dwellings has formalised access by dedication of a road and not by right of way.

Note: Some short constrictions in the access may be accepted where they are not less than 3.5m wide, extend for no more than 30m and where the obstruction cannot be reasonably avoided or removed. The gradients applicable to public roads also apply to community style development property access roads in addition to the above.

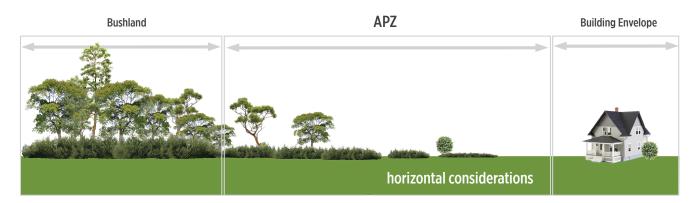
Part H

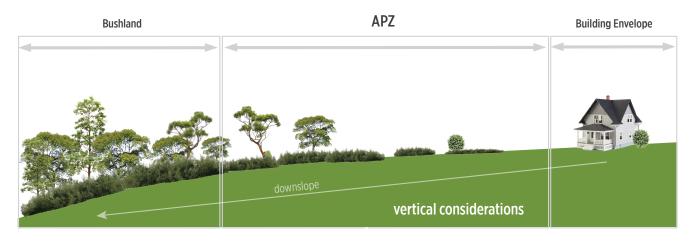
Asset Protection Zones (APZ)

An APZ is an area between a bush fire hazard and a building which is managed to minimise fuel loads, inhibit fire paths and reduce the effects of heat, flame, ember and smoke attack. It keeps the effects of the fire away from the building. The size of the APZ is based on vegetation type, slope and BAL provided. Although it is possible to build using BAL-Flame Zone construction levels, providing a minimum defendable space and APZs wherever possible will increase the resilience of your home in bush fire situations.

Figure 7

Asset Protection Zone (APZ)





The APZ should be contained wholly within the proposed development site, but can also include existing roads. Unmanaged land or land that is not to be managed will not be considered as an APZ.

APZ's on adjoining managed land will only be considered under exceptional circumstances and then only when an agreed legal arrangement, such as a legally enforceable easement is provided and submitted with your development application.

It is expected that the APZ will be maintained by the owner of the land being developed. See Standards for APZ for more information about design & maintenance (available from the NSW RFS website).

Dictionary

Additional definitions can be found in Planning for Bush Fire Protection 2019.

Acceptable Solution

The acceptable solutions that meet the requirements (being Chapters 1-8) of Australian Standard AS3959-2018, *Construction of buildings in bushfire-prone areas or Planning for Bush Fire Protection 2019 (PBP)*.

Performance based solution

A method of complying with the performance criteria other than by acceptable solutions.

AS3959-2018

Australian Standard AS3959-2018, *Construction* of buildings in bushfire-prone areas, specifies construction standards applicable to buildings in bush fire prone areas.

Asset Protection Zone (APZ)

An area surrounding a development managed to reduce the bush fire hazard to an acceptable level. The width of the required APZ will vary with slope, vegetation and construction level. The APZ consists of an area maintained to minimal fuel loads so that a fire path is not created between the hazard and the building.

Building footprint

The area shown on a plan over which a building is proposed to be erected.

Bush fire prone land

Is an area of land that can support a bush fire or is likely to be subject to bush fire attack. Bush fire prone area is land mapped for a local government area that identifies the vegetation classifications and associated buffer zones. Bush Fire Prone Land Maps are prepared by local councils and certified by the Commissioner of the NSW RFS under section 10.3(2) of the Environmental Planning and Assessment Act 1979.

Bush fire protection measures (BPMs)

Are a range of measures available to minimise the risk arising from a bush fire. BPMs include APZs, construction standards, suitable access arrangements, water and utility services, emergency management arrangements and landscaping.

Bush Fire Assessment Report (BFAR)

A report submitted in support of a development application by an applicant which determines the extent of bush fire attack to a development and the measures to be provided to meet PBP 2019.

Appendix 2 (A2.2) of *Planning for Bush Fire Protection 2019* provides the information requirements for a bush fire assessment. See also clause 46 of the *Rural Fires Regulation*.

Development Application (DA)

Application normally made to the local council for consent to carry out development such as building, subdivision, or the use of a building or land.

Flame zone

The distance from a bush fire at which there is significant potential for sustained flame contact to a building. Determined by the calculated distance at which the radiant heat of the design fire exceeds 40kW/m² or calculated by the sustained flame length, whichever is the lesser.

Forest Fire Danger Index (FFDI)

A measure of the degree of danger of bush fire in Australian forests. This index combines a record of dryness, based on rainfall and evaporation, with meteorological variables for wind speed, temperature and humidity. FDI information can be found on the NSW RFS website www.rfs.nsw.gov.au.

Grasslands

Grassed areas capable of sustaining a fire. Under AS 3959 2018, this is identified as low open shrubland, hummock grassland, closed tussock grassland, tussock grassland, open tussock, sparse open tussock, dense sown pasture, sown pasture, open herbfield, and sparse open herb field.

Grass, whether exotic or native, which is regularly maintained at or below 10cm in height (including maintained lawns, golf courses, maintained public reserves, parklands, nature strips and commercial nurseries) is regarded as managed land.



TEAR OUT AND ATTACH THIS BUSH FIRE ASSESSMENT REPORT WITH YOUR APPLICATION TO COUNCIL

SECTION TWO BUSH FIRE ASSESSMENT REPORT

PART A: Property details

| Applicant name: |
|---|
| Contact phone numbers Home: |
| Council: |
| Council reference (if known): |
| Lot: |
| DP: |
| Address to be developed: |
| My property is on Bush Fire Prone Land: Yes No |
| PART B: Type of proposal Type of Proposal: |
| New Building Urban Isolated Rural Rural Residential |
| Alteration/Additions to an existing building |
| Proposal Description: e.g. two storey house with attached |
| |
| Copy of plans attached: Yes No |

PART C: Bush fire attack and level of construction

Step 1

Assess the vegetation hazard in all directions

| Category | North | East | South | West |
|------------------|----------------------------------|---------------------|---------------------|---------------------|
| Keith vegetation | Rainforest | Rainforest | Rainforest | Rainforest |
| group | Forest | Forest | Forest | Forest |
| | Grassy and Semi-Arid Woodland | Woodland | Woodland | Woodland |
| | Forested Wetland | Forested Wetland | Forested Wetland | Forested Wetland |
| | Tall Heath | Tall Heath | Tall Heath | Tall Heath |
| | Short Heath | Short Heath | Short Heath | Short Heath |
| | Arid-Shrubland | Arid-Shrubland | Arid-Shrubland | Arid-Shrubland |
| | Freshwater Wetlands | Freshwater Wetlands | Freshwater Wetlands | Freshwater Wetlands |
| | Grasslands | Grasslands | Grasslands | Grasslands |
| | Managed Land | Managed Land | Managed Land | Managed Land |
| | | | | |

Copy of any relevant photos attached:

Yes No

Step 2

Determine the distance from the building to the bush fire vegetation hazard

| Aspect | North | East | South | West |
|----------|-------|------|-------|------|
| Distance | m | m | m | m |

Step 3

Determine the effective slope that will influence bush fire behaviour in each direction

| Category | North | East | South | West |
|---|--------------|--------------|--------------|--------------|
| Slope under the hazard (over 100m) [in degrees] | upslope/flat | upslope/flat | upslope/flat | upslope/flat |
| | >0 to 5 | >0 to 5 | >0 to 5 | >0 to 5 |
| | >5 to 10 | >5 to 10 | >5 to 10 | >5 to 10 |
| | >10 to 15 | >10 to 15 | >10 to 15 | >10 to 15 |
| | >15 to 20 | >15 to 20 | >15 to 20 | >15 to 20 |

Step 4

Determine the FFDI that applies to your local government area. Circle the relevant FFDI below

| FFDI: | 100 | | 80 | | |
|-------|-----|--|----|--|--|
|-------|-----|--|----|--|--|

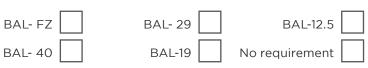
Step 5

Match the relevant FFDI, vegetation, distance and slope to determine the required BAL.

Identify the BAL for each direction, select the highest level for the entire building and record below. Note BAL-12.5 is the lowest construction level within the scope of AS3959-2018.

Bush Fire Attack Level:

| BAL- FZ | |
|---------|--|
| | |



Step 6

Determining BAL construction requirements

Once the appropriate BAL has been determined in Step 5, AS3959-2018 and or/ the NASH Standard 2014 will be used to determine the construction requirements for the proposed design.

Does your proposal meet the construction requirements for the BALs required as per AS3959-2018 and the NASH Standard (2014):

| Yes | No | | |
|-----|----|--|--|
|-----|----|--|--|



Grassland Deeming Provisions Assessment

This assessment is only required where the deeming provisions are to be used. Where the deeming provisions are not to be used, previous Steps 1 to 6 in Part C must be applied. Tick which box below applies to individual circumstances:



An APZ of 50m or more can be provided – this can be considered to meet PBP 2019, no further bush fire protection measures are required



An APZ of 20-49m can be provided - comply with Grassland Deeming Provisions requirements in the following Table

An APZ of less than 20m is provided or the standard assessment process is proposed - use the assessment process identified in Steps 1 to 6 above

Grassland Deeming Provisions

| BUSH FIRE PROTECTION MEASURE | GRASSLAND DEEMING PROVISIONS | | |
|------------------------------|---|--|--|
| | Iimited to a maximum of 15 degrees downslope; | | |
| APZ | minimum APZ of 20m is provided between the building and unmanaged grass; | | |
| | > the APZ is wholly within the boundaries of the development site; and | | |
| | the APZ is maintained as a mown area with grass heights less than 100mm. | | |
| Construction | construction in accordance with BAL-12.5 of AS3959-2018 and any additional construction requirements in PBP 2019. | | |
| Access | > comply with the property access provisions in Part G. | | |
| Water supply | > comply with the water supply provisions in Part E. | | |
| Landscaping | comply with the relevant provisions in Appendix 4 of PBP 2019, noting that other vegetation bush fire hazards cannot be present if these provisions are to apply. | | |

PART D: Flame zone

Provide details and justification for any additional bush fire protection measures required for a performance based solution.

PART E: Water supplies

Does your property have a reticulated water supply?; If so, please provide details on the distance to the nearest fire hydrant on your site plan.

Reticulated water supply is available:

| Yes | No | |
|-----|----|--|
|-----|----|--|

Yes No

Distance (m) to hydrant from house.

Do you have or do you plan to have a dedicated water supply for firefighting purposes?

| Development Type | Water Requirement | Planned | Existing |
|---|--|---------|----------|
| Residential Lots (<1,000m²) | 5,000 l/lot | | |
| Rural-residential Lots (1,000 - 10,000m²) <1 ha | 10,000 I/lot | | |
| Large Rural/Lifestyle Lots (>10,000m²) >1 ha | 20,000 I/lot | | |
| Townhouse/Unit Style (e.g. Flats including Dual Occupancy) | 5,000 l/unit up to 20,000l maximum. | | |

Do you have or do you plan to have a static water supply (e.g. pool, tank or dam)?

Include approximate size in litres and also include tank material if using a tank:

| Water supply type | Capacity | Construction material | Planned | Existing |
|-------------------|----------|--|---------|----------|
| e.g. pool | 50,0001 | Above ground rolled steel with plastic lin | er | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

NOTE: Check with your local council concerning their Local Environmental Plan (LEP) or their Development Control Plan (DCP) as this may dictate the type and size of tank.



| Do you have reticulated or bottled gas? | Yes | No |
|---|-----|----|
| Type of gas: | | |
| Reticulated gas: | Yes | No |
| Bottled gas: | Yes | No |
| | | (|

NOTE: When attaching development plans please ensure they clearly show location and details of electricity and gas (where relevant) on your property.

Part G: Access

Does the development proposal meet the requirements as defined in this document?

| Yes | No | |
|-----|----|--|

This document has been designed for owner/buiders as well as architects, building designers and draftspersons who wish to submit plans for building or modifying an existing building in a Bush Fire Prone Area. This document has been designed to support you, and provide you with a process to follow that will assist you to meet the current requirements for bush fire protection.

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