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Mount Piper to Wallerawang Transmission Line Upgrade

Staging Report - Revision 1

6 August 2026

Details of Revision Amendments

Revision Details

Rev.	Date	Prepared by	Details
0	27/7/2026	Dan Owens	Initial issue
0.1	31/7/2026	Dan Owens	Changes after ER review
0.2	3/8/2026	Dan Owens	Additional changes after ER review
1	6/8/2026	Dan Owens	For issue to DPHI

Document Approval

Position	Name	Signature	Date
Senior Environmental Advisor	Dan Owens		6/8/2026

Contents

Acronyms and Abbreviations

Term	Definition
ACHMP	Aboriginal Cultural Heritage Management Plan
AES	Accommodation and Employment Strategy
BMP	Biodiversity Management Plan
CCS	Community Communication Strategy
CSSI	Critical State Significant Infrastructure
CWO REZ	Central-West Orana Renewable Energy Zone
DCCEEW (Cth)	Department of Climate Change, Energy, the Environment and Water (Commonwealth)
DPHI	Department of Planning, Housing and Infrastructure
DPs	Delivery Partner appointed as Principal Contractors by Transgrid to deliver the Project: Zinfra
EIS	The Environmental Impact Statement titled Mount Piper to Wallerawang Transmission Line Upgrade Project – *Environmental Impact Statement*, prepared by GHD, including: • Amendment Report • Submissions Report
EP&A Act	*Environmental Planning and Assessment Act 1979* (NSW)
EP&A Regulation	Environmental Planning and Assessment Regulation 2021 (NSW)
EPBC Act	*Environment Protection and Biodiversity Conservation Act 1999* (Commonwealth)
EMP	Environmental Management Plan
ER	Environmental Representative
FLP	Final Layout Plan
HHMP	Historic Heritage Management Plan
Infrastructure Approval	Instrument of Approval under the EP&A Act for Mount Piper to Wallerawang Transmission Line Upgrade (SSI-70279722), received on 16 May 2026
LGA	Local Government Area
NSW	New South Wales
NVMP	Noise and Vibration Management Plan
OSOM	Over-size and Over-mass vehicles
PC	Principal Contractor
PCMW	Pre-construction Minor Works
Planning Systems SEPP	State Environmental Planning Policy (Planning Systems) 2021
SEARs	Secretary’s Environmental Assessment Requirements
SEPP	State Environmental Planning Policy
SWMP	Soil and Water Management Plan
TTMP	Traffic and Transport Management Plans
WEP	Work as Executed Plan

1. Introduction

1.1. Background

The Mount Piper to Wallerawang Transmission Line Upgrade Project (the “Project”) involves the construction, operation and maintenance of a new 330 kV transmission line between the existing Mount Piper and Wallerawang 330 kV substations in the Lithgow Local Government Area.

The project forms part of the NSW Transmission Infrastructure Strategy and will increase transmission capacity to support renewable energy generation associated with the Central-West Orana Renewable Energy Zone (CWO REZ). The project will facilitate the reliable transfer of renewable energy to consumers across New South Wales and support State and Commonwealth net zero emissions objectives.

An Environmental Impact Statement (EIS) for the project (SSI-70279722) was publicly exhibited between 27 August 2025 and 24 September 2025. Following exhibition, a Response to Submissions and an Amendment Report were prepared in December 2025 to address issues raised during exhibition, reflect ongoing design development, construction planning and stakeholder feedback. Key amendments included changes to access tracks, ancillary facilities, construction traffic arrangements and the adoption of bored piling in lieu of impact piling.

The project was approved by the NSW Planning Secretary on 16 May 2026 under Part 5, Division 5.2 of the *Environmental Planning and Assessment Act 1979*. The project has also received approval under the *Environment Protection and Biodiversity Conservation Act 1999* following assessment under the bilateral assessment agreement.

1.2. Purpose

This Staging Report has been prepared in accordance with Condition C4 to document the proposed staging of the Project and provide the framework for the staged implementation of the development and associated environmental management documentation.

The project is staged to enable the progressive preparation and implementation of environmental management documents and align environmental management with the risks associated with each stage of the project.

The purpose of this report is to:

- describe the proposed staging of the Mount Piper to Wallerawang Transmission Line Upgrade Project
- identify the scope of works applicable to each stage
- identify the trigger for progression between stages
- demonstrate how compliance with the conditions of approval will be achieved across each project stage
- identify the environmental management documents and approvals that apply to each stage of the project.

This report should be read in conjunction with:

- Mount Piper to Wallerawang Transmission Line Upgrade Project Environmental Impact Statement (August, 2025)
- Mount Piper to Wallerawang Transmission Line Upgrade Project Amendment Report (December 2025)
- Mount Piper to Wallerawang Transmission Line Upgrade Project Response to Submissions (December, 2025)
- Mount Piper to Wallerawang Transmission Line Upgrade Project Assessment Report (DPHI, 2026)
- Approved Conditions of Approval (SSI-70279722)
- Environmental management plans and strategies required by the Conditions of Approval.

Conditions relevant to the Staging Report are included in Table 1. It is noted that Conditions C7, C8 and C9 are also included within Table 1 for reference, however, any Staging Request would be subject to a separate document.

Table 1 Conditions of Approval relevant to the Staging Report

Condition	Requirement	Relevance to this Report
C4	The development may be undertaken in stages (including but not limited to temporal, location or activity-based staging). Where staging is proposed, the Proponent must prepare a Staging Report for pre-construction minor works, construction, operation or all stages as applicable. The Staging Report must:	This Staging Report has been prepared to describe the proposed staging for the Project. It is noted that Transgrid proposes to submit post-approval documents required by the Infrastructure Approval on a staged basis where approved by the Planning Secretary, in accordance with Condition C7.
	(a) be endorsed by the ER;	An endorsement of the Staging Report by the Environmental Representative (ER) will be supplied to the Planning Secretary.
	(b) be submitted: (i) to the Planning Secretary no later than 1 month before the commencement of the first proposed stage detailed in the staging report;	The Staging Report will be submitted to the Planning Secretary no later than 1 month before the commencement of the first stage.
	(ii) no later than 1 month prior to the lodgement of any management plan staged under condition C7;	The Staging Report will be submitted to the Planning Secretary no later than 1 month prior to the lodgement of staged management plans under C7.
	(c) provide a clear description of: (i) the trigger for staging the development;	Section 3

Condition	Requirement	Relevance to this Report
	(ii) the specific stages and scope of the development proposed in each stage;	Section 3
	(iii) any existing stages;	At the time of this Report there are no existing stages.
	(iv) any future stages planned;	Section 3
	(v) a schedule for the current and future stages;	Section 3
	(d) specify how compliance with conditions will be achieved across and between stages; and	Appendix B
	(e) set out mechanisms for managing cumulative impacts arising from the proposed staging.	Section 3
C5	The development must be delivered in accordance with the Staging Report submitted to the Planning Secretary.	Transgrid and its Delivery Partner will deliver the development in accordance with the Staging Report.
C6	Where staging is proposed, the terms of this approval that apply are relevant to the work or activities to be carried out in a specific stage must be complied with at the relevant time for that stage.	Transgrid and its Contractor will comply with the terms of the Infrastructure Approval that are relevant to the particular stage, at the relevant time for the stage, as captured within this Staging Report. Refer to Appendix B for the applicability of each Condition within the Infrastructure Approval, to each stage.

Condition	Requirement	Relevance to this Report
C7	With the approval of the Planning Secretary, the Proponent may: (a) prepare any environmental management document required by this approval on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the document applies, the relationship of the stage to any future stages and the trigger for updating the document); (b) combine environmental management documents if the Proponent can demonstrate a clear nexus between the nominated documents, the impact of combining the nominated documents and how the nominated documents will still comply with the conditions of this approval; (c) update any environmental management document required by this approval (to ensure the strategies, plans and programs required under this approval are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development).	Post-approval documents will be developed to address the conditions relevant to each stage. Refer to Appendix A for the allocation of Condition requirements for strategies, plans and programs for each stage. Refer to Appendix B for the applicability of each Condition within the Infrastructure Approval, to each stage. A Staging Request under Condition C7 will be made to the Planning Secretary upon ER endorsement and submission to the Planning Secretary of the Staging Report required under C4. For clarity, the Staging Request will be a separate document to this Staging Report.
C8	Staging requests made to the Planning Secretary must be consistent with the stages detailed in a Staging Report submitted to the Planning Secretary under conditions C4 and C5.	A separate Staging Request (or multiple Staging Requests) will be provided for the approval the Planning Secretary to meet this Condition.
C9	With the approval of the Planning Secretary, an environmental management document may be staged or updated without: (a) consultation being undertaken with all parties required to be consulted in the relevant condition in this approval; and/or (b) addressing particular requirements of the relevant condition of this approval if those requirements do not apply to the specific stage.	A separate Staging Request (or multiple Staging Requests) will be provided for the approval the Planning Secretary to meet this Condition.

Condition	Requirement	Relevance to this Report
C10	The Department must be notified, in writing, prior to the date of commencement of each of the following development phases: (a) commencement of pre-construction minor works under the approval; (b) commencement of construction under the approval; (c) commencement of operations under the approval; (d) completion of decommissioning of the development. If the phases of the development are to be further staged, the Department must be notified, in writing, prior to the commencement of each stage, noting the date of commencement and the development to be carried out in that stage.	Section 3

2. Project Description

The Mount Piper to Wallerawang Transmission Line Upgrade Project is located within the Lithgow Local Government Area of New South Wales and extends between the existing Mount Piper and Wallerawang 330 kV substations.

The project includes the construction, operation and maintenance of approximately 8 kilometres of new 330 kV transmission line together with associated ancillary infrastructure, access tracks and temporary construction facilities.

2.1. Project Overview

An overview of the approved project infrastructure, per the Amendment Report, is shown in Table 2 and listed below. Zinfra Pty Ltd have been engaged by Transgrid as the Principal Contractor (also referred to as Delivery Partner) for the construction of the project. Upon the completion of commissioning, Transgrid would operate the project infrastructure.

Table 2 Key Project details

Project Aspect	Description
Location	Lithgow Local Government Area, approximately 14 km north-west of Lithgow
Project footprint	Approximately 90.4 hectares
Existing land use	Agriculture, industrial land and conservation land, including part of the Gardens of Stone State Conservation Area

<u>Transmission Line and Easements</u>

The project includes:

- approximately 8 km of new 330 kV transmission line between Mount Piper and Wallerawang substations
- widening of approximately 0.5 km of existing easements near Mount Piper Substation
- widening of approximately 4.8 km of existing 132 kV easement from 45 m to 60 m
- installation of two replacement 132 kV pole structures
- approximately 1.2 km of new transmission line from the existing 132 kV corridor toward Main Street and Castlereagh Highway
- approximately 1.5 km of new transmission line approaching Wallerawang Substation.

Transmission Structures

The project includes:

- approximately 28 new steel lattice towers
- four steel and/or concrete pole structures
- structure heights ranging between approximately 14 m and 60 m
- installation of new conductors, earth wires and optical ground wire (OPGW)
- adjustment of existing transmission infrastructure near Mount Piper Substation
- removal and recycling, where practicable, of redundant transmission infrastructure.

Ancillary Infrastructure

Ancillary infrastructure includes:

- construction compounds
- laydown areas
- brake and winch sites
- access tracks
- temporary drainage and culvert works
- workforce facilities and associated utilities.

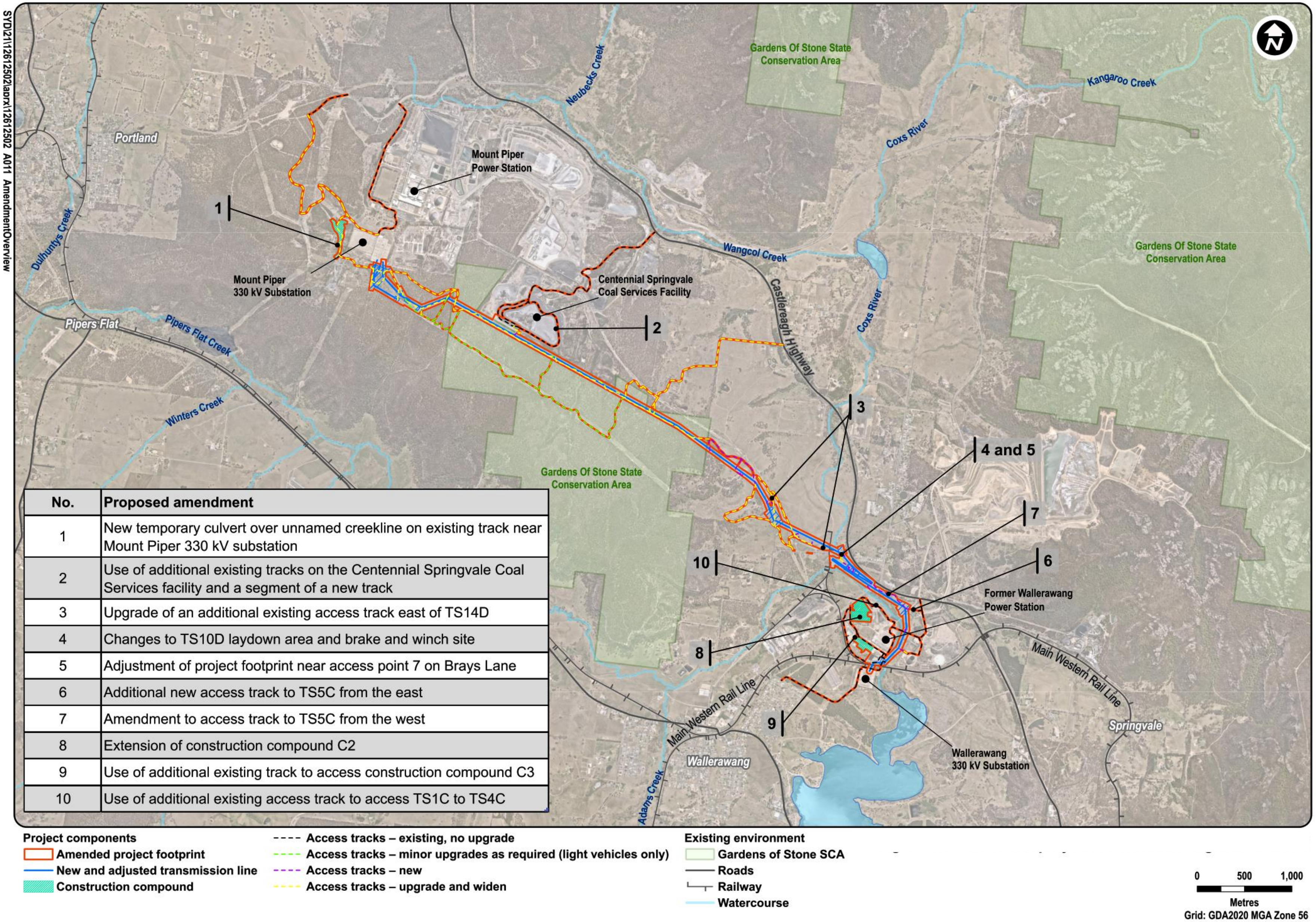
Access

Construction access includes:

- approximately 20 km of upgraded and widened existing access tracks
- approximately 2.5 km of new access tracks
- approximately 12 km of existing tracks requiring no upgrade
- approximately 4.3 km of light vehicle only tracks.

The project will utilise 12 public road access points. Existing access tracks will be used wherever practicable to minimise disturbance.

An overview of the Project is shown in Figure 2-1.



No.	Proposed amendment
1	New temporary culvert over unnamed creekline on existing track near Mount Piper 330 kV substation
2	Use of additional existing tracks on the Centennial Springvale Coal Services facility and a segment of a new track
3	Upgrade of an additional existing access track east of TS14D
4	Changes to TS10D laydown area and brake and winch site
5	Adjustment of project footprint near access point 7 on Brays Lane
6	Additional new access track to TS5C from the east
7	Amendment to access track to TS5C from the west
8	Extension of construction compound C2
9	Use of additional existing track to access construction compound C3
10	Use of additional existing access track to access TS1C to TS4C

Figure 2-1 Project location and regional context

3. Staging

The Project has been staged in accordance with Condition C4(c), which requires a clear description be provided as to the specific stage and scope of the development to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program.

The Project is to be delivered in three stages as detailed in the following sections. The timing of each stage is presented in Table 3. This timing is indicative only and is subject to change based on project approvals. A detailed description of each stage is presented in Sections 3.1 to 3.3.

Table 3 Timing of each Stage

Stage	Indicative Start date	Trigger for stage initiation
Stage 1 - Pre-construction minor works	September 2026 – actual date to be defined in line with Condition C4(b)(i).	Commencement of activities meeting the definition of pre-construction minor works under SSI-70279722 Submission of this Staging Report to the Planning Secretary in accordance with Condition C4(b) Pre-Construction Minor Works Approval(s) endorsed by the ER in accordance with Condition A12(h) Endorsement of the Community Communication Strategy by the ER and submission of the CCS to the Planning Secretary for information in accordance with Conditions A23 and A24
Stage 2 - Construction	12 October 2026	Applicable environmental management plans are approved by the Planning Secretary and all other obligations to be completed prior to Construction commencing, as stated within the within the Conditions of Approval, are met – initiating the construction phase
Stage 3 - Operation	31 May 2028	Completion of commissioning works and line becoming serviceable. All obligations to be completed prior to Operation commencing, as stated within the Conditions of Approval (including any Management Plan update under Condition C7), are met – initiating the operation phase

In terms of the timing of environmental management documentation, plans and strategies will be prepared in advance of the relevant project stage and, where required, will undergo consultation, be submitted to the Planning Secretary for information, or be approved by the Planning Secretary prior to the commencement of that stage. Transgrid will endeavour to allow stakeholders and the Planning Secretary as much time as reasonably practicable to review draft documents before they are finalised or submitted. During delivery of the Project, the commencement of stages will be notified as required by Condition C10.

Figure 3-1 shows deliverables required prior to commencing each Stage.

The timing of submission and applicability of strategies, plans or programs required by the Conditions of Approval to each stage is outlined in Section 3.1, Section 3.2 and Section 3.3 with further detail on applicability contained in Appendix A, Appendix B and Appendix C.

There will be no cumulative impact as a result of the staging of the Project. The requested stages form part of the phases allowed for in the Infrastructure Approval and occur in sequence rather than simultaneously. As such, Condition C4(e) will not be triggered.

Stage	Deliverables
Pre-construction minor works	• Community Communication Strategy (A23)
Construction	• Environmental Management Plan (C1) • Community Communication Strategy (A23) • Complaints Handling Strategy (C2) • Noise and Vibration MP (B11) • Soil and Water MP (B24) • Historic Heritage MP (B26) • Aboriginal Cultural Heritage MP (B27) • Traffic and Transport MP (B35) • Emergency Plan (B46) • Waste MP (B51) • Accommodation and Employment Strategy (B52) • Rehabilitation MP (B54) [within 6 months of commencement of Construction] • Final Layout Plans (C11)
Operation	• Community Communication Strategy (A23) • Complaints Handling Strategy (C2) • Environmental Management Plan (C1) • Noise and Vibration MP (B11) • Soil and Water MP (B24) • Historic Heritage MP (B26) • Traffic and Transport MP (B35) • Aboriginal Cultural Heritage MP (B27) • Emergency Plan (B46) • Waste MP (B51) • Accommodation and Employment Strategy (B52)

Figure 3-1 Deliverable required prior to commencing each Stage

3.1. Stage 1 – Pre-construction minor works

The infrastructure approval defines a range of activities that may be undertaken as pre-construction minor works (PCMW) prior to the commencement of construction. These activities are reproduced below for completeness, and include:

(1) The following activities:

a) property surveys;
b) building and road dilapidation surveys;
c) investigative drilling, contamination investigations, excavation or salvage;
d) installation of environmental impact mitigation measures, fencing, enabling works and monitoring equipment;
e) installation of property fencing and security gates;
f) archaeological testing under the *Code of practice for archaeological investigation of Aboriginal objects in NSW (DECCW, 2010)* or archaeological monitoring;
g) archaeological and cultural salvage undertaken in accordance with a strategy or salvage operation required by the conditions of the Project's approval;
h) maintenance of existing buildings and structures required to facilitate the carrying out of the development;
i) other activities determined by the ER to have minor impact on the environment and the community;

(2) grading of existing access tracks and minor adjustments to services/utilities, etc. for the activities identified in (1) above; and
(3) minor clearing or translocation of vegetation for the activities identified in (1) above that does not impact biodiversity values that require offsetting
(4) works that do not impact heritage items (excluding those impacted by activities 1(f) and 1(g) above).

3.1.1. Plans and Strategies applicable to Stage 1 Pre-Construction Minor Works

Prior to commencing PCMW, a Community Consultation Strategy (CCS) was prepared accordance with Condition A23 and provided to the Planning Secretary for information. The CCS provides mechanisms to facilitate communication between the Proponent and the community (including adjoining affected landowners) during PCMW and Construction, and a 12 month period following the completion of Construction (refer Condition A24).

There are no other plans that are triggered during PCMW. It is noted that PCMW will avoid any activity that would lead to:

- Impacts to biodiversity values requiring offsetting
- Direct or indirect impacts to historic heritage items
- Direct or indirect impacts to Aboriginal cultural heritage items
- Road upgrades as identified in Condition B33

3.2. Stage 2 – Construction

Stage 2 consists of the construction of the approved Mount Piper to Wallerawang Transmission Line Upgrade Project. Construction includes all physical work to enable operation, including but not limited to the construction of transmission infrastructure and ancillary facilities carried out before the commencement of operation, and excluding pre—construction minor works.

Activities include:

Site Preparation

- Vegetation clearing
- Earthworks
- Temporary fencing and signage installation
- Installation of safety and environmental controls

Transmission Infrastructure

- construction of approximately 8 km of new 330 kV transmission line
- erection of approximately 28 steel lattice towers
- installation of four steel and/or concrete pole structures
- installation of conductors, earth wires and OPGW
- adjustment and relocation of existing transmission infrastructure where required
- removal of redundant transmission infrastructure.

Access and Civil Works

- upgrading and widening of existing access tracks
- construction of new access tracks
- installation of drainage structures and culverts
- establishment and maintenance of access points
- construction benching and earthworks associated with tower sites.

Ancillary Facilities

- establishment and operation of construction compounds
- establishment of laydown areas
- establishment of brake and winch sites
- material storage and equipment staging areas.

3.2.1. Plans and Strategies applicable to Stage 2 Construction

Prior to commencing Construction, the management plans and strategies within Table 4 shall be prepared in accordance with the relevant conditions and will be either approved by the Planning Secretary or provided to the Planning Secretary for information, as required by the Infrastructure Approval.

Table 4 Plans and strategies that are applicable to Stage 2 - Construction.

Condition	Document
A23	Community Communication Strategy
B11	Noise and Vibration Management Plan
B19	Soil and Water Management Plan
B24	Biodiversity Management Plan
B26	Historic Heritage Management Plan
B27	Aboriginal Cultural Heritage Management Plan
B32	Transport Strategy (if alternative route used)
B35	Traffic and Transport Management Plan
B46	Emergency Plan
B51	Waste Management Plan
B52	Accommodation and Employment Strategy
B54	Rehabilitation Management Plan
C1	Environmental Management Plan
C2	Complaints Handling Protocol
C4	Staging Report
C10	Notification of Development Phases
C11	Final Layout Plans

Approval to stage these plans and strategies would be subject to a Staging Request in accordance with Conditions C7-C9 of the Infrastructure Approval.

Consultation with stakeholders, as stipulated by the Infrastructure Approval, would be undertaken prior to construction for each plan, as relevant.

It is noted that Stage 2 Construction works would include activities that would lead to:

- Impacts to biodiversity values requiring offsetting
- Direct or indirect impacts to historic heritage items
- Direct or indirect impacts to Aboriginal cultural heritage items
- Road upgrades as identified in Condition B33

As such, the Biodiveristy Management Plan, Historic Heritage Management Plan, Aboriginal Cultural Heritage Management Plan and Traffic and Transport Management Plan would be triggered for this stage.

Further details relating to the applicability of plans and strategies are provided in Appendix A and Appendix B.

3.3. Stage 3 – Operation

Once the construction stage of the Project is complete it will enter the Operation phase. The Infrastructure Approval defines Operation as the carrying out of the approved purpose of the development upon completion of construction, but does not include commissioning trials of equipment or use of temporary facilities.

The operation stage will comprise the ongoing operation, inspection and maintenance of the transmission infrastructure. Typical activities include routine asset inspections, vegetation management within the easement, maintenance and repair of towers, poles, conductors, earth wires and telecommunications infrastructure, replacement of asset components as required, access track maintenance, emergency response and fault repairs, and environmental monitoring and management required by the conditions of approval or management plans.

Following commissioning:

- no additional operational workforce is anticipated
- asset design life is approximately 50 years
- regular inspection, vegetation management and maintenance will be undertaken
- access tracks not required for ongoing operation will be rehabilitated in accordance with landowner agreements and approval requirements

3.3.1. Plans and Strategies applicable to Stage 3 Operation

The following plans and strategies would be applicable during the Operation phase:

Table 5 Plans and Strategies applicable to Stage 3 Operation

Condition	Document
A23	Community Communication Strategy – for the first 12 months per Condition A24
B11	Noise and Vibration Management Plan – relating to ongoing noise and vibration impact management
B24	Biodiversity Management Plan – for the purpose of monitoring
B26	Historic Heritage Management Plan – for the purpose of managing potential impacts on historic heritage items
B27	Aboriginal Cultural Heritage Management Plan – for the purpose of managing potential impacts on Aboriginal cultural heritage
B35	Traffic and Transport Management Plan – to manage impacts on other road users
B46	Emergency Plan – for the purpose of maintaining access for emergency services
B51	Waste Management Plan – for the purpose of monitoring
B54	Rehabilitation Management Plan – insofar as rehabilitation activities would be undertaken and monitored during operation phase
B52	Accommodation and Employment Strategy
C1	Environmental Management Plan – as the overarching framework for environmental management
C2	Complaints Handling Protocol – as a component of the Environmental Management Plan

Approval to stage these plans and strategies would be subject to a Staging Request in accordance with Conditions C7-C9 of the Infrastructure Approval. This Staging Request will also provide timeframes for the development and approval of the Plans, ensuring that these plans are approved prior to the operation phase commencement. Transgrid may consult with the Planning Secretary on combining operation stage management plans under Condition C7(b). Where plans are to be updated for the operation stage, Transgrid would consult with the Planning Secretary in regard to the requirement for any further stakeholder consultation.

Prior to commencing operations, Work as Executed Plans (WEPs) must be submitted in accordance with Condition C13. WEPs will confirm the constructed layout of the development and show comparison to the Final Layout Plans.

4. Compliance

4.1. Conditions of approval

In accordance with Condition C5, Transgrid and its Delivery Partner will deliver the development in accordance with this Staging Report, as submitted to the Planning Secretary

The applicability of strategies, plans or programs required by the Conditions of Approval to each stage is outlined in Appendix A. The allocations are described as:

- Where a strategy, plan or program is relevant to a stage, it is considered Applicable and marked with a tick mark (✓) in the column for the relevant stage.
- Where strategy, plan or program is not relevant to a construction stage, it is considered Not Applicable and shown as blank in the column for the relevant construction stage.

The applicability of the Conditions of Approval to each stage of the Project has been identified in Appendix B. The allocations are described as:

- Where a condition is relevant to a particular stage, it is considered Applicable and marked as “Yes” in the column for the relevant stage.
- Where condition is not relevant to a particular stage, it is considered Not Applicable and shown as “No” in the column for the relevant stage.

In accordance with Condition C6, Transgrid and its Contractor will comply with the terms of the Infrastructure Approval that are relevant to the particular stage, at the relevant time for the stage, as captured within this Staging Report.

4.2. Revised Mitigation Measures

The applicability of the Revised Mitigation Measures to each stage of the Project has been identified in Appendix B. The allocations are described as:

- Where a condition is relevant to a particular stage, it is considered Applicable and marked as “Yes” in the column for the relevant stage.
- Where condition is not relevant to a particular stage, it is considered Not Applicable and shown as “No” in the column for the relevant stage.

5. Future revisions

Should changes to the staging approach be required during the Project, this Staging Report will be resubmitted to the ER for endorsement and to the Planning Secretary for information in accordance with Condition C4 of the Infrastructure Approval.

Appendix A – Application of strategies, plans or programs to each stage of the Project

Condition	Document	Pre-construction minor works	Construction	Operation	Will a separate Operation phase Plan be developed?
A23	Community Communication Strategy	✓	✓	✓ Yes, insofar as it applies 12 months beyond the final date of Construction	No
B11	Noise and Vibration Management Plan		✓	✓ Yes, refer to Appendix B for specific Conditions relevant to the NVMP that will be included prior to operations phase	Yes
B19	Soil and Water Management Plan		✓	✓	Yes
B24	Biodiversity Management Plan		✓	✓	Yes
B26	Historic Heritage Management Plan		✓	✓	Yes
B27	Aboriginal Cultural Heritage Management Plan		✓	✓	Yes
B32	Transport Strategy (if alternative route used)		✓	✓	Yes
B35	Traffic and Transport Management Plan		✓	✓	Yes
B46	Emergency Plan		✓	✓ Yes, refer to Appendix B for specific Conditions relevant to the Emergency Plan that will be included prior to operations phase	Yes
B51	Waste Management Plan		✓	✓ Yes, – insofar as it applies to ongoing monitoring during operation	Yes
B52	Accommodation and Employment Strategy		✓	Yes	Yes
B54	Rehabilitation Management Plan		✓	✓ Yes, insofar as the rehabilitation works may extend into operation phase.	No
C1	Environmental Management Plan		✓	✓ Yes, as the project framework document	Yes

Appendix B – Application of Conditions of Approval for each stage of the Project

Condition Ref	Condition Description	Applicability of Condition to Stage		
		Pre-construction minor works	Construction	Operations
	SCHEDULE 2			
	PART A ADMINISTRATIVE CONDITIONS OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT			
A1	In meeting the specific performance measures and criteria established under this approval, all reasonable and feasible measures must be implemented to prevent, or if prevention is not reasonable and feasible, to minimise any material harm to the environment that may result from pre-construction minor works or the construction and operation of the development, and any rehabilitation or decommissioning required under this approval.	Yes	Yes	Yes
	TERMS OF APPROVAL			
A2	The development may only be carried out: (a) in compliance with the conditions of this approval; (b) in accordance with all written directions of the Planning Secretary; (c) generally in accordance with the EIS; and (d) generally in accordance with the Development Layout in Appendix 1.	Yes	Yes	Yes
A3	The Proponent must comply with any written requirement/s of the Planning Secretary arising from the Department's assessment of: (a) the environmental performance of the development; (b) any strategies, plans or correspondence that are submitted in accordance with this approval; (c) any reports, reviews or audits commissioned by the Department regarding compliance with this approval; (d) the implementation of any actions or measures contained in these documents, and (e) in respect of ongoing monitoring and management obligations, compliance with an updated or revised version of a guideline, protocol, Australian Standard or policy required to be complied with under this approval.	Yes	Yes	Yes
A4	The conditions of this approval and directions of the Planning Secretary prevail to the extent of any inconsistency, ambiguity or conflict between them and a document/s listed in condition A2(c). In the event of any inconsistency, ambiguity, or conflict between any of the document/s listed in condition A2(c), the most recent document prevails to the extent of the inconsistency, ambiguity, or conflict.	Yes	Yes	Yes
A5	Any document that must be submitted within a timeframe specified in or under the terms of this approval may be submitted within a later timeframe agreed with the Planning Secretary. This condition does not apply to the immediate written notification required in respect of an incident under condition C10.	Yes	Yes	Yes
	LIMITS OF APPROVAL			
A6	This approval will lapse if the Proponent does not physically commence the development within 5 years of the date on which it is granted.	Yes	Yes	No
	PAYMENT OF REASONABLE COSTS			
A7	The Proponent must pay all reasonable costs incurred by the Department to engage a suitably qualified, experienced, and independent expert(s) to review the adequacy of any environmental management document required under this approval.	Yes	Yes	Yes
A8	Work must not commence until an Environmental Representative (ER) has been approved by the Planning Secretary and engaged by the Proponent.	Yes	Yes	No
A9	The Planning Secretary's approval of an ER must be sought no later than one (1) month before the commencement of work.	Yes	Yes	No
A10	The proposed ER must meet the requirements set out in the *Environmental Representative Protocol* (Department of Planning and Environment, October 2018) and must be a suitably qualified and experienced person(s) who was not involved in the preparation of the documents listed in condition A2(c), and is independent from the design and construction of the development.	Yes	Yes	No
A11	More than one ER may be engaged for the development, in which case the functions to be exercised by an ER under the terms of this approval may be carried out by any ER that is approved by the Planning Secretary.	Yes	Yes	No
A12	For the duration of work until the completion of construction, or as agreed with the Planning Secretary, the approved ER must: (a) receive and respond to communication from the Planning Secretary in relation to the environmental performance of the development; (b) consider and inform the Planning Secretary on matters specified in the terms of this approval; (c) consider and recommend to the Proponent any improvements that may be made to work practices to avoid or minimise adverse impact to the environment and the community; (d) review documents identified in Table 1, Schedule 1, and any other documents that are identified by the Planning Secretary, to ensure they are consistent with the requirements of this approval and if so to: (i) make a written statement to this effect before submission of such documents to the Planning Secretary (if those documents are required to be approved by the Planning Secretary); or (ii) make a written statement to this effect before the implementation of such documents (if those documents are required to be submitted to the Department for information or are not required to be submitted to the Department); **Note:** The written statement must be made via the Major Projects Portal (e) regularly monitor the implementation of the documents identified in Table 1, Schedule 1 to ensure implementation is being carried out in accordance with the document and the terms of this approval; (f) as may be requested by the Planning Secretary, help plan or attend audits of the development commissioned by the Department including scoping audits, programming audits, briefings and site visits but not independent environmental audits required under C14 of this approval; (g) as may be requested by the Planning Secretary, assist in the resolution of community complaints; (h) review the appropriateness of any activities reliant on the definition of Pre-construction Minor Works; (i) considering any minor amendments (updates or administrative changes that do not increase impacts to the environmental or nearby sensitive receivers) to any documents required under this approval and ensure they are consistent with the terms of this approval and, if satisfied such amendments are necessary, approve the amendment. This does not include any modifications to the terms of this approval; (j) having the authority and independence to recommend to the Proponent reasonable steps to be taken to avoid or minimise unintended or adverse environmental impacts, and, failing the effectiveness of such steps, to recommend to the Proponent that relevant activities are to be ceased as soon as reasonably practicable if there is a significant risk that an adverse impact on the environment will be likely to occur; and	Yes	Yes	No

	(k) prepare and submit to the Planning Secretary and other relevant regulatory agencies, for information, an ER Monthly Report providing the information set out in the *Environmental Representative Protocol* (Department of Planning and Environment, October 2018). The ER Monthly Report must be submitted within seven (7) days following the end of each engagement for the development, or as otherwise agreed by the Planning Secretary.			
A13	The Proponent must provide the ER with all documentation requested by the ER in order for the ER to perform their functions specified in condition A12 (including preparation of the ER monthly report), as well as: (a) the complaints register for any complaints received (on the day they are received); and (b) a copy of any assessment carried out by the Proponent of whether proposed work is consistent with the approval (which must be provided to the ER before the commencement of the subject work).	Yes	Yes	No
	PROTECTION OF PUBLIC INFRASTRUCTURE			
A14	Unless the Proponent and the applicable authority agree otherwise, the Proponent must: (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by carrying out the development (excluding damage to roads caused as a result of general road usage); and (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development. **Note:** This condition does not apply to the upgrade and maintenance of the road network, which is expressly provided for in the conditions of this approval.	Yes	Yes	Yes
	WATER SUPPLY INFRASTRUCTURE - FISH RIVER WATER SUPPLY SCHEME			
A15	The Proponent must not construct any buildings, structures, roadway, pavement, pipeline, fence, or any other improvement on or under the land within the Fish River Water Supply Scheme infrastructure easement without prior written agreement from WaterNSW.	Yes	Yes	Yes
	COMPLIANCE			
A16	The Proponent must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this approval relevant to activities they carry out in respect of the development.	Yes	Yes	Yes
	DEMOLITION			
A17	The Proponent must ensure that all demolition work on site is carried out in accordance with AS 2601-2001: The Demolition of Structures (Standards Australia, 2011), or its latest version.	No Not permitted as PCMW	Yes	Yes
	STRUCTUAL ADEQUACY			
A18	All new buildings and structures, and any alterations or additions to existing buildings and structures, that are part of the development, must be constructed in accordance with the relevant requirements of the Building Code of Australia; and where the Building Code of Australia is not applicable, to the relevant Australian Standard. **Note:** Under Part 6 of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works. **Note:** Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2021 sets out the requirements for the certification of the development.	No	Yes	No
	OPERATION OF PLANT AND EQUIPMENT			
A19	All plant and equipment used on site, or in connection with the development must be: (a) maintained in a proper and efficient condition; (b) operated in a proper and efficient manner.	Yes	Yes	Yes
	EVIDENCE OF CONSULTATION			
A20	Where the terms of this approval require consultation to be undertaken, evidence of the consultation undertaken and a tabulated summary must be submitted to the Planning Secretary and ER (as relevant) with the corresponding environmental management document via the NSW Planning Portal. The evidence must include: (a) documentation of the engagement with the identified party in the condition of approval that has occurred before submitting the document for approval; (b) a log of the dates of engagement or attempted engagement with the identified party; (c) documentation of the follow-up with the identified party where engagement has not occurred to confirm that they do not wish to engage or have not attempted to engage after repeated invitations; (d) outline of the issues raised by the identified party and how they have been addressed; and (e) a description of the outstanding issues raised by the identified party and the reasons why they have not been addressed.	Yes	Yes	Yes
	APPLICABILITY OF GUIDELINES			
A21	References in the conditions of this approval to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this approval.	Yes	Yes	Yes
A22	However, consistent with the conditions of this approval and without altering any limits or criteria in this approval, the Planning Secretary may, when issuing directions under this approval in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.	Yes	Yes	Yes
	COMMUNITY COMMUNICATION STRATEGY			
A23	Work must not commence until a community communication strategy has been prepared for the development. The strategy must: (a) provide mechanisms to facilitate communication between the Proponent and the community, including adjoining affected landowners, during construction. (b) identify landowners and potentially impacted receivers; (c) ensure that the landowners identified in (a) are consulted during construction; (d) set out procedures and mechanisms for the regular distribution of information; (e) establish a public liaison officer(s) to engage with the local community; and (f) set out procedures and mechanisms: (i) through which the community can discuss or provide feedback to the Proponent; (ii) through which the Proponent will respond to enquiries or feedback from the community; and (iii) to resolve any issues and mediate any disputes that may arise in relation to construction of the development.	Yes	Yes	Yes For the first 12 months per Condition A24
A24	The community communication strategy must be implemented for the duration of pre-construction minor works and construction and for 12 months following the completion of construction.	Yes	Yes	Yes

	PART B SPECIFIC ENVIRONMENTAL CONDITIONS			
	NOISE AND VIBRATION			
	Construction Hours			
B1	Pre-construction minor works, construction, demolition, upgrading or decommissioning activities may only be undertaken between: (a) 7 am to 6 pm Monday to Friday; (b) 8 am to 1 pm Saturdays; and (c) at no time on Sundays and NSW public holidays; unless the Planning Secretary agrees otherwise..	Yes	Yes	Yes
	Exceptions to Construction Hours			
B2	The following activities may be carried outside the hours specified in condition B1: (a) the delivery or dispatch of materials as requested by the NSW Police Force or other public authorities for safety reasons; (b) emergency work to avoid the loss of life, property or prevent material harm to the environment; (c) development activities carried out in accordance with the hours and noise limits specified in any negotiated agreements with sensitive receivers (owners and occupiers), provided the negotiated agreements are in writing and finalised before the commencement of the development activities; (d) activities that do not result in noise affected sensitive receivers, as defined in Interim Construction Noise Guidelines (DECC, 2009) (or its latest version); (e) road upgrades required by the relevant road authority to be undertaken outside the standard construction hours; (f) where a rail authority requires a rail possession for the activities to be performed outside of standard construction hours; (g) pre-construction minor works, construction and or upgrading that require a network outage on another distribution or transmission network, and the operator of the network requires the outage and associated works outside standard construction hours; (h) where different hours are permitted or required under an EPL in force in respect of the development; or (i) pre-construction minor works, construction and or upgrading works carried out in accordance with an Out-of-Hours Work Protocol in accordance with condition B11.	Yes	Yes	Yes
	Construction and Decommissioning			
B3	The Proponent must take all reasonable and feasible steps to minimise the pre-construction minor works, road upgrades, construction, upgrading or decommissioning noise of the development in the locations where the noise is audible to sensitive receivers, including any associated traffic noise.	Yes	Yes	Yes
B4	The Proponent must ensure that the noise generated by any construction, upgrading or decommissioning activities is managed in accordance with the requirements outlined in the Interim Construction Noise Guideline (DECC, 2009) (or its latest version).	Yes	Yes	Yes
B5	The Proponent must implement mitigation measures with the aim of achieving the road traffic noise assessment criteria for land uses from NSW Road Noise Policy (DECCW, 2011).	Yes	Yes	No
B6	The Proponent must implement mitigation measures with the aim of achieving the following vibration limits: (a) vibration criteria established using the Assessing vibration: a technical guideline (DEC, 2006) (for human exposure); (b) BS 7385 Part 2-1993 "Evaluation and measurement for vibration in buildings Part 2" as they are "applicable to Australian conditions"; and (c) vibration limits set out in the German Standard DIN 4150-3: Structural Vibration – effects of vibration on structures (for structural damage).	Yes	Yes	No
B7	Where a sensitive receiver is identified as potentially exceeding the construction 'noise affected' noise management level or sleep disturbance criteria established using the Interim Construction Noise Guideline (DECC, 2009), or its latest version, as a result of construction or operation of the construction compounds, reasonable and feasible mitigation measures must be implemented with the objective of reducing construction noise below the relevant criteria at each relevant sensitive receiver. Activities that would exceed the 'noise affected' noise management level or sleep disturbance criteria during construction must not commerce until the measures identified in this condition have been implemented, unless otherwise agreed with the Planning Secretary. However, this does not apply if the Proponent has an agreement with the relevant owner/s of these receivers to generate higher noise levels, and the Proponent has advised the Department in writing of the terms of this agreement. **Note:** Mitigation measures may include path barrier controls, at-property treatment, or a combination of path and at-property treatment.	Yes	Yes	Yes
	Operation			
B8	Except for corona discharge noise, the Proponent must ensure that the noise generated by the operation of the development does not exceed the project noise trigger levels (PNTL) established in accordance with the *Noise Policy for Industry* (NPfI), at the reasonably most affected point of the residence, at any residential receiver.	No	No	Yes
B9	The Proponent must: (a) take all reasonable and feasible steps to minimise corona discharge noise during operation of the project; (b) identify residences predicted to experience corona discharge noise levels above the PNTL at the reasonably most affected point of the residence, determined in accordance with the NPfI, and how often corona noise is expected to be above this level per year; (c) implement all reasonable and feasible noise mitigation measures, determined in accordance with the NPfI, at receivers where corona discharge noise levels exceed the PNTL identified in the monitoring program required in condition B10.	No	No	Yes
	Operational Noise Compliance Verification			
B10	Within 12 months of the commencement of operation of the development, the Proponent must submit to the Planning Secretary, an Operational Noise Compliance Verification report. The assessment must include: (a) the results of baseline corona noise monitoring as required in condition B11(f); (b) the results of operational noise monitoring undertaken following the commencement of operation, including, but not limited to, at residences predicted to experience corona discharge noise levels above the PNTL(as required in condition B11(g)); (c) a comparison of the actual noise performance of the development against PNTLs established in accordance with the NPfI and against the baseline results in B10(a); (d) identification of any additional reasonable and feasible noise mitigation measures that would be required to be implemented to achieve the objective of meeting the PNTLs, a schedule of when these measures are to be implemented and how their effectiveness is to be measured. Any additional noise mitigation measures identified under (d) must be implemented within 12 months of submitting the Operational Noise Compliance Verification report, unless otherwise agreed by the Planning Secretary. The Applicant must undertake further noise monitoring of the development if required by the Planning Secretary.	No	No	Yes
	Noise and Vibration Management Plan			
B11	Prior to the commencement of construction, the Proponent must prepare a Noise and Vibration Management Plan to the satisfaction of the Planning Secretary. The plan must: (a) include measures and processes to ensure the requirements in condition B1 to B9 are complied with; (b) include a description of the reasonable and feasible measures that would be implemented to minimise noise and vibration impacts of the development;	Yes	Yes	Yes

	(c) include a detailed description of the noise and vibration management system for the development; (d) include a protocol for the identification, notification and management of works that exceed the noise management levels; (e) include a monitoring program that evaluates and reports on the effectiveness of the noise and vibration management systems and identify additional noise mitigation measures that are to be implemented and the timeframe to be implemented; (f) include a baseline corona noise monitoring program to be undertaken for 6 months or where a suitable sample of data collected during weather conditions conductive to corona noise is obtained prior to operation to inform operational corona noise performance objectives, which must: (i) be prepared in accordance with the NPfI; (ii) include a combination of attended and unattended noise monitoring to evaluate the corona noise emitted by the existing operational transmission line; (iii) monitor noise at locations representative of the residences with the greatest risk of experiencing impacts to noise amenity from corona noise during operation; and (iv) include a detailed meteorological study, containing localised data collected near the monitoring locations to determine the weather conducive to corona noise that are associated with exceedance of NPfI objectives; (g) include a monitoring program that evaluates the operational noise performance of the development and the effectiveness of operational noise mitigation measures, which must: (i) be prepared in accordance with the NPfI; (ii) incorporates the results of the baseline corona noise monitoring in B11(f) above; (iii) monitor noise at locations representative of the residences with the greatest risk of experiencing impacts to noise amenity from corona noise during operation; and (iv) include a detailed meteorological study, containing localised data collected near the monitoring locations to determine the weather conducive to corona noise that are associated with exceedance of NPfI objectives; and (v) provide analysis of the statistical occurrences of meteorological conditions that cause exceedance of NPfI objectives; (h) include an Out-of-Hours Work Protocol to identify a process for the consideration, management and approval of works outside the hours defined in condition B1, which must: (i) be prepared in consultation with the relevant Council; (ii) identify low risk activities that can be undertaken without the approval of the Planning Secretary and with the approval of the ER; (iii) identify high risk activities that must be approved by the Planning Secretary; and (iv) identify Department, Council and community notification arrangements for approved out of hours work Following approval, the Proponent must implement the Noise and Vibration Management Plan.	With the exception of parts (f) and (g)	With the exception of parts (f) and (g)	Including parts (f) and (g)
	AIR QUALITY			
B12	In addition to the performance outcomes, commitments and mitigation measures specified in the EIS, the Proponent must take all reasonable steps to: (a) minimise the dust generated by the development; and (b) minimise the surface disturbance of the site.	Yes	Yes	Yes
	SOIL AND WATER			
	Water Supply			
B13	The Proponent must ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of the development to match its available water supply. **Note:** Under the Water Act 1912 and/or the Water Management Act 2000, the Proponent is required to obtain the necessary water licences before commencing any works which intercept or extract groundwater or surface water (unless an exemption applies).	Yes	Yes	Yes
	Erosion and Sedimentation			
B14	The Proponent must: (a) minimise erosion and control sediment generation; and (b) ensure all land disturbances have appropriate drainage and erosion and sediment controls designed, installed and maintained in accordance with *Best Practice Erosion and Sediment Control* (IECA, 2008), *Managing Urban Stormwater – Soils and Construction Volume 1* (Landcom, 2004), *Managing Urban Stormwater – Soils and Construction Volume 2A Installation of Services* (DECC, 2008) and *Managing Urban Stormwater – Soils and Construction Volume 2C Unsealed Roads* (DECC, 2008), or their latest versions.	Yes	Yes	Yes
	Pollution of Waters			
B15	Unless otherwise authorised by an EPL, the Proponent must ensure the development does not cause any water pollution, as defined under Section 120 of the POEO Act.	Yes	Yes	Yes
B16	The Proponent must: (a) design, construct and maintain an appropriate water management system at all construction compounds to prevent pollution; (b) minimise any spills of hazardous materials or hydrocarbons, and clean up any spills as soon as possible after they occur.	Yes	Yes	Yes With the exception of part (a)
	Riparian Areas			
B17	The Proponent must ensure all activities on waterfront land are constructed in accordance with the Guidelines for Controlled Activities on Waterfront Land (DPE 2022), Why do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings (NSW Fisheries 2003) and the Policy and Guidelines for Fish Habitat and Conservation and Management (NSW Fisheries, 2013), unless Water Group and DPIRD Fisheries agrees otherwise.	Yes	Yes	Yes
	Flooding			
B18	The Proponent must ensure that the development does not materially alter the flood storage capacity, flows or characteristics in the development area or off-site.	Yes	Yes	Yes
	Soil and Water Management Plan			
B19	Prior to the commencement of construction the Proponent must prepare a Soil and Water Management Plan for the development to the satisfaction of the Planning Secretary. This plan must: (a) be prepared in consultation with the relevant Council, CPHR, Water Group and WaterNSW; (b) detail how the Proponent would: (i) ensure the requirements in conditions B13 to B18 are met; (ii) manage flood risk during construction and operation; (iii) investigate, assess and manage contaminated land, soils and groundwater in the development area; (iv) investigate, assess and manage the potential for asbestos and other hazardous materials in the development area; (v) manage any unexpected and / or suspected contaminated land and asbestos excavated, disturbed or otherwise discovered during construction;	Yes, with the exception of part (b)(ii) operation	Yes, with the exception of part (b)(ii) operation	Yes, including part (b)(ii)

	(c) detail how the Proponent would manage groundwater inflows and extraction during construction including groundwater trigger action response measures if groundwater inflows are greater than 3 ML / year; and (d) include a program to monitor and report on the impacts and environmental performance of the development. Following approval, the Proponent must implement the Soil and Water Management Plan.			
	BIODIVERSITY			
	Restrictions of Clearing and Habitat			
B20	During construction, the Applicant must ensure that: (a) ensure that the vegetation and habitat clearing limits specified in Table 2-1, Table 2-2 and Table 3-3 of Appendix 2 are not exceeded; and (b) minimise: (i) the impacts of the development on hollow-bearing trees; (ii) the impacts of the development on threatened species; and (iii) the clearing of native vegetation and key habitat.	No Not permitted during PCMW	Yes	No Noting maintenance of the disturbance footprint would occur
	Biodiversity Offsets			
B21	Prior to undertaking any development activities that would directly or indirectly impact on biodiversity values requiring offset, the Proponent must retire biodiversity credits of the number and classes specified in Table 2-1, Table 2-2 and Table 2-3 of Appendix 2.	No Not permitted during PCMW	Yes	No
B22	Condition B21 must be carried out in accordance with sections 6.4 and 6.29A of the *Biodiversity Conservation Act 2016* and section 6.2 of the *Biodiversity Conservation Regulation 2017*.	No	Yes	No
B23	Prior to carrying out any development activities that would directly or indirectly impact on biodiversity values required to be offset, evidence must be provided to the Planning Secretary that conditions B21 and B22 have been met. If the approval provides for stages of development and specifies staged retirement of biodiversity credits, the Planning Secretary may approve the retirement of credits in stages, if adequate evidence is provided for the relevant stage.	No Not permitted during PCMW	Yes	No
	Biodiversity Management Plan			
B24	Prior to carrying out any development that could impact biodiversity values that require offsetting, the Proponent must prepare a Biodiversity Management Plan for the development to the satisfaction of the Planning Secretary. This plan must: (a) be prepared by a suitably qualified and experienced biodiversity expert/s; (b) be prepared in consultation with CPHR and NPWS; (c) be prepared generally in accordance with the BDAR; (d) include a description of the measures that would be implemented for: (i) meeting the biodiversity mitigation requirements in condition B20; (ii) minimising: • the amount of vegetation clearing on site; • the loss of key fauna habitat (including tree hollows); • the impacts to fauna on site, including undertaking pre-clearance surveys; and • potential indirect or prescribed impacts on threatened flora and fauna species; (iii) ensuring the development does not adversely affect the native vegetation and habitat outside the development area; (iv) protocols for unexpected finds of threatened species and threatened ecological communities within the development area including the requirements for: • all work in the associated location to stop to prevent further impact, and • notification to the Planning Secretary and CPHR in writing on any additional mitigation measures to be implemented; and • relevant agencies to be consulted and the Planning Secretary to endorse recommencement of work; (v) connectivity strategy for the potentially impacted species identified in the BDAR; (vi) rehabilitation of temporary disturbance areas to facilitate natural regeneration with suitable native species; (vii) maximising the salvage of resources within the approved development area – including vegetative and soil resources – for beneficial reuse (such as fauna habitat enhancement) during the rehabilitation and revegetation of the site; (viii) collecting and propagating seed (where relevant); (ix) controlling erosion, weeds and feral pests; (x) bushfire management; (xi) minimising impacts on entities at risk of a serious and irreversible impact (SAII), including the Large-eared Pied Bat; and (e) include a program to monitor, evaluate and publicly report on the effectiveness of these measures. Following approval, the Proponent must implement the Biodiversity Management Plan.	No	Yes	Yes
	HERITAGE			
	Protection of Heritage Items			
B25	The Proponent must: (a) ensure the development does not cause harm to any historic heritage items (see Table 3-3 of Appendix 3) or Aboriginal cultural heritage items (see Table 3-1 of Appendix 3) ; (b) manage the Aboriginal cultural heritage identified in Table 3-2 of Appendix 3 in accordance with the specified mitigation management measures and in accordance with the requirements of the Aboriginal Cultural Heritage Management Plan, as outlined in condition B27, including any subsequent revision of this plan; (c) manage the historic heritage identified in Table 3-3 of Appendix 3 in accordance with the requirements of the Historic Heritage Management Plan, as outlined in condition B26, including any subsequent revision of this plan; (d) salvage and relocate items that would be impacted to a suitable location, in accordance with the Aboriginal Cultural Heritage Management Plan described in condition B27; and	Yes	Yes	Yes

	(e) develop an Unexpected Finds Procedure including a contingency plan and reporting procedure, in accordance with the guidelines and standards specified by Heritage NSW, to be implemented for the duration of the project. The procedure must include the requirement to notify Heritage NSW of any identified relics or Aboriginal objects, and register any newly identified Aboriginal objects or sites in the AHIMS database.			
	Historic Heritage Management Plan			
B26	Prior to carrying out any development that could harm historic heritage items, the Proponent must prepare a Historic Heritage Management Plan for the development to the satisfaction of the Planning Secretary. The plan must: (a) be prepared by suitably qualified and experienced heritage specialist whose appointment has been endorsed by the Planning Secretary; (b) be prepared in consultation with Lithgow City Council and reviewed by Heritage Council of NSW; (c) identify and map known items of heritage significance within and surrounding the development area; (d) include a description of the measures that would be implemented for: (i) protection of heritage items identified in Table 3-3 of Appendix 3 (ii) Wallerawang Rail Bridges over Coxs River (SHR no. 01064), including: • vibration monitoring if required, as determined in consultation with a suitably qualified heritage specialist; and • a trigger action response plan to identify and implement further mitigation measures to ensure negligible impact; (iii) ensuring workers on site receive suitable heritage inductions prior to carrying out any development on site, and that records are kept of these inductions. (e) include the Unexpected Finds Procedure, and (f) include a program to monitor and report on the effectiveness of management measures and any environmental heritage impacts of the project. Following approval, the Proponent must implement the Historic Heritage Management Plan.	No Harm to historic heritage items will not occur as part of PCMW	Yes	Yes
	Aboriginal Cultural Heritage Management Plan			
B27	Prior to the carrying out of any development that could harm Aboriginal heritage items, the Proponent must prepare an Aboriginal Cultural Heritage Management Plan to the satisfaction of the Planning Secretary. The plan must: (a) be prepared by suitably qualified and experienced person/s whose appointment has been endorsed by the Planning Secretary; (b) be prepared in consultation with Registered Aboriginal Parties and reviewed by Heritage NSW; (c) include a description of the measures (and associated methodologies) that would be implemented for: (i) protection of heritage items identified in Table 3-3 of Appendix 3 (ii) the long-term management of any Aboriginal heritage items or cultural material collected; Wallerawang Rail Bridges over Coxs River (SHR no. 01064), including: • vibration monitoring if required, as determined in consultation with a suitably qualified heritage specialist; and • a trigger action response plan to identify and implement further mitigation measures to ensure negligible impact; (iii) ensuring workers on site receive suitable heritage inductions prior to carrying out any development on site, and that records are kept of these inductions; (iv) ongoing consultation and involvement of Registered Aboriginal Parties in the management of Aboriginal cultural heritage and (v) preparing Aboriginal Site Impact Recording Forms (ASIRFs) for all impacted Aboriginal heritage sites following construction activities, with ASIRFs to be submitted to the Aboriginal Heritage Information Management System (AHIMS) registrar. (d) include the Unexpected Finds Procedure, and (e) include a program to monitor and report on the effectiveness of management measures and any Aboriginal cultural heritage impacts of the project. Following approval, the Proponent must implement the Aboriginal Cultural Heritage Management Plan.	No Harm to Aboriginal heritage items will not occur as part of PCMW	Yes	Yes
	TRAFFIC AND TRANSPORT			
	Designated Heavy and Heavy Vehicles Requiring Escort Routes			
B28	All heavy vehicles requiring escort associated with the development must only travel to and from the site via the construction routes described in the EIS, as identified in Figure 4-1 and Figure 4-2 in Appendix 4, unless the Planning Secretary agrees otherwise. ***Note:** The Proponent is required to obtain relevant permits under the Heavy Vehicle National Law (NSW) for the use of over-dimensional vehicles on the road network.*	No Will not occur as part of PCMW	Yes	Yes
B29	All heavy and light vehicles associated with construction, upgrading and decommissioning of the development must travel to and from the site via the construction routes as described in the EIS and identified in the Figure 4-1 and Figure 4-2 in Appendix 4 unless the Planning Secretary agrees otherwise.	Yes	Yes	Yes
B30	Unless the Planning Secretary agrees otherwise, heavy vehicles (excluding heavy vehicles requiring escort) used for the development must not exceed 19 m in length.	Yes	Yes	Yes
B31	Unless the Planning Secretary agrees otherwise, development vehicles (excluding heavy vehicles requiring escort) are not permitted: (a) to turn right turn into Karawatha Drive from Castlereagh Highway; (b) to turn right turn into Brays Lane from Castlereagh Highway; and (c) to turn right turn right into Access Point 10 from Castlereagh Highway.	Yes	Yes	Yes
	Transport Strategy			
B32	Prior to use of the alternative route (shown on Figure 4-2 in Appendix 4), the Applicant must prepare a Transport Strategy to the satisfaction of the Planning Secretary. The Transport Strategy must: (a) be prepared by a suitably qualified and experienced person; (b) be prepared in consultation with Lithgow City Council; (c) include an assessment of potential impacts associated with the use of the route by heavy vehicles requiring escort, including in relation to the capacity and condition of the roads, road safety and intersection performance; (d) identify appropriate mitigation measures to minimise traffic safety impacts and disruptions to local road users along the route; and (e) demonstrate that the use of the route by heavy vehicles requiring escort, and measures identified in (d), can be accommodated without the need for a road upgrade and would have no more than a minimal impact on the environment and the community. Proposed mitigation measures must be included in the Traffic and Transport Management Plan.	No	Yes	Yes
	Road Upgrades			

B33	Unless the Planning Secretary agrees otherwise, the Proponent must implement the road upgrades identified in Table 4-1 in Appendix 4 in accordance with the relevant standard and timing requirements in Table 4-1 in Appendix 4, and to the satisfaction of the relevant roads authority. If there is a dispute about the road upgrade works, or the implementation of these works, then either party may refer the matter to the Planning Secretary for resolution.	No Will not occur as part of PCMW	Yes	No
	Road Maintenance			
B34	The Proponent must: (a) undertake an independent dilapidation survey: (i) assessing the existing condition of all local or regional roads on the transport route shown in Figure 4-1 and Figure 4-2 in Appendix 4 (including local road crossings) prior to use of the relevant road by development related heavy vehicles for the purposes of construction, upgrade or decommissioning works; and (ii) assessing the condition of all local roads on the transport route (including local road crossing); • within 1 month of all the completion of construction, upgrading or decommissioning works, or within a timeframe agreed to by the relevant roads authority/manager; • on an annual basis during construction, or within a timeframe agreed to by the relevant authority/manager; (b) Repair (or pay the full costs associated with repairing) any damage to local roads on the transport route (including local road crossings) that are as a result of development related road traffic: (i) as soon as possible after the damage is identified but within 7 days at the latest if it could endanger road safety; or (ii) within 2 months of the completion of the survey; or (iii) within a timeframe agreed to by the relevant roads authority/manager. (c) prepare a report on the road repairs completed in consultation with the relevant roads authority. If there is a dispute about the road maintenance works, or the implementation of these works, then either party may refer the matter to the Planning Secretary for resolution.	Yes	Yes	Yes
	Traffic and Transport Management Plan			
B35	Prior to commencing construction or road upgrades identified in condition B33 (whichever comes first), the Proponent must prepare a Traffic and Transport Management Plan for the development in consultation with TfNSW, Lithgow City Council, NPWS and to the satisfaction of the Planning Secretary. The plan must include: (a) details of the transport route to be used for all development-related traffic; (b) details of the road upgrade works required by condition B33; (c) details of the measures that would be implemented to comply with the transport management requirements in conditions B28 to B34; (d) details of measures as stated within the EIS; (e) a structural assessment, undertaken by a suitably qualified structural engineer and agreed to by Lithgow Council, of the bridges on Brays Lane along the transport route (Figure 4-2, Appendix 4) to confirm the bridges can accommodate all construction vehicles; (f) details of the measures that would be implemented to: (i) minimise traffic safety impacts of the development and disruptions to local road users during construction, upgrading or decommissioning works, including: • measures for restricting concurrent heavy vehicle movements at the Karawatha Drive and Castlereagh Highway intersection such as staggering heavy vehicle arrivals and departures; • measures to minimise traffic impacts in the event of an emergency outage recall including staggering heavy vehicles arrivals outside of the network peak where possible; • consultation with Centennial Coal prior to the usage of Access Point 2 to minimise disruption to site operations; • a description of the proposed timeframe and schedule of construction works; • a description of the proposed dilapidation surveys required by condition B34; • a description of the proposed measures for managing traffic flow around the work sites and construction compounds; • procedures for stringing cables and transmission lines across roads to ensure compliance with Austroads Guide to Traffic Management; • procedures for notifying NPWS of proposed traffic impacts on NPWS estate; • scheduling all development traffic to avoid peak periods where reasonable and feasible; • reducing the speeds of development-related traffic at key intersections (excluding on the State road network); • temporary traffic controls, including detours and signage; • notifying the local community about development-related traffic impacts; • procedures for receiving and addressing complaints from the community about development related traffic; • minimising potential cumulative traffic impacts with other projects in the area; • minimising potential conflict between development-related traffic and rail services, including preventing queueing on the public road network; • implementing measures to minimise development-related traffic on the public road network outside standard construction hours; • minimising dirt and debris tracked on to the public road network from development related-traffic; • details of the employee shuttle bus service (if used), including pick-up and drop-off points and associated parking arrangements for construction workers, and measures to encourage employee use of this service; • measures for managing light vehicle peak numbers, such as car-pooling or ride sharing by employees; • scheduling the haulage vehicle movements to minimise convoy lengths or platoons; • responding to local climate conditions that may affect road safety, such as, fog, dust, wet weather and flooding; • ensuring loaded vehicles entering or leaving the site have their loads covered or contained and leave site in a forward direction; • a schedule for the periodic inspection and maintenance of the condition of all local roads used by development-related traffic; • responding to any emergency repair or maintenance requirements; • provisions for maintaining emergency vehicle access to the site at all times; • a traffic management system for managing over-dimensional vehicles; and • fatigue management (ii) minimise the impacts of the road and intersection upgrades of the development; • the impacts to fauna on site, including undertaking pre-clearance surveys; and • potential indirect or prescribed impacts on threatened flora and fauna species; (iii) minimises parking on the public road network; (iv) maintain all roads and water-related infrastructure on site in a safe and serviceable condition; • relevant agencies to be consulted and the Planning Secretary to endorse recommencement of work; (v) restrict travel underneath Wallerawang Rail Bridges over Cox's River to light vehicles only (vi) minimise the traffic noise impacts of the development; (g) include a drivers code of conduct that addresses: (i) travelling speeds; (ii) procedures to ensure that drivers to and from the development adhere to the designated heavy vehicles requiring escort and heavy vehicle routes; • the impacts to fauna on site, including undertaking pre-clearance surveys; and • potential indirect or prescribed impacts on threatened flora and fauna species; (iii) procedures to ensure that drivers to and from the development implement safe driving practices; and; (iv) including a detailed program to monitor and report on the effectiveness of these measures and the code of conduct. • relevant agencies to be consulted and the Planning Secretary to endorse recommencement of work; (h) include a program to:	No No road upgrades to occur as part of PCMW	Yes	Yes

	(i) ensure drivers working on the development receive suitable training on the code of conduct and any other relevant obligations under the Traffic and Transport Management Plan; (ii) record and track vehicle movements; and • the impacts to fauna on site, including undertaking pre-clearance surveys; and • potential indirect or prescribed impacts on threatened flora and fauna species; (iii) monitor and publicly report on the effectiveness of these measures. (i) a flood response plan detailing procedures and options for safe access to and from the site in the event of flooding. Following approval, the Proponent must implement the Traffic and Transport Management Plan.			
	Gardens of Stone State Conservation Area			
B36	The Proponent must ensure that project related upgrades to trails within the Gardens of Stone Conservation Area are completed in consultation with NPWS. Upon finalisation of construction activities, trails in the Gardens of Stone Conservation Area must be completed to meet the standards in the Department of Land & Water Conservation guideline entitled *"Guidelines for the Planning, Construction and Maintenance of Trails"* and in accordance with the *Blue Book Volume 2C - Erosion and Sediment Control on Unsealed Roads* (NSW Govt, Office of Environment & Heritage, 2012) and applicable sections of *Managing Urban Stormwater: Soils and Construction Volume 1* (Landcom 2004). If there is a dispute about the scope of any upgrades or the implementation of these works, then either party may refer the matter to the Planning Secretary for resolution.	No	Yes	No
	VISUAL AMENITY			
	Visual Impact Mitigation			
B37	Unless the Planning Secretary agrees otherwise, for a period of 2 years from the commencement of operations, the three receivers represented by VP06 as identified in the EIS and on the development layout in Figure 1-1 in Appendix 1 may ask the Proponent to implement visual impact mitigation measures on their land to minimise the visual impacts of the development on their residence. Upon receiving such a written request from the owner of these residences, the Proponent must implement appropriate mitigation measures (such as landscaping and vegetation screening) in consultation with the owner. These mitigation measures must be reasonable and feasible, aimed at reducing the visibility of the transmission line and towers from the residence, and commensurate with the level of visual impact on the residence. All agreed mitigation measures must be implemented within 12 months of receiving the written request, unless the Planning Secretary agrees otherwise. If the Proponent and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Planning Secretary for resolution. To avoid any doubt, mitigation measures are not required to be implemented to reduce the visibility of transmission lines and towers from any other locations on the property other than the residence and its curtilage.	No	No	Yes
	Visual Appearance			
B38	The Proponent must: (a) take reasonable steps to minimise the visual impacts of the development; (b) not mount any advertising signs or logos on site, except where this is required for identification or safety purposes;	Yes	Yes	Yes
	Lighting			
B39	The Proponent must: (a) take all reasonable steps to minimise the off-site visual impacts of the development; and (b) ensure that any external lighting associated with the development: (i) is installed as low intensity lighting (except where required for safety or emergency purposes); (ii) does not shine above the horizontal; and (iii) complies with Australian/New Zealand Standard AS/NZS 4282:2019 – Control of Obtrusive Effects of Outdoor Lighting.	Yes	Yes	Yes
	Radio Communications			
B40	If the development results in the disruption to any radio communications services (including point-to-point microwave links) in the area, then the Proponent must make good any disruption to these services as soon as possible following the disruption, but no later than 1 month following the disruption of the service unless the relevant service provider or user or Planning Secretary agrees otherwise.	Yes	Yes	Yes
	HAZARD AND RISK			
	Dangerous Goods			
B41	The quantities of dangerous goods stored and handled at the site must be below the threshold quantities listed in the Department's *Hazardous and Offensive Development Application Guidelines* – Applying SEPP 33 at all times.	Yes	Yes	Yes
B42	All explosives, fuels and oils must be stored and handled in accordance with: (a) the requirements of all relevant Australian Standards; including and not limited to *Australian Standard 2187 Explosives – Storage, transport and use*; and (b) the NSW EPA's Storing and Handling of Liquids: Environmental Protection – Participants Manual, if the chemicals are liquids.	Yes	Yes	Yes
B43	In the event of an inconsistency between the requirements of the documents listed in condition B42, the most stringent requirement must prevail to the extent of the inconsistency.	Yes	Yes	Yes
	Electric and Magnetic Fields			
B44	The Proponent must ensure that the design, construction and operation of the development is managed to comply with the applicable electric and magnetic fields (EMF) limits in the *International Commission on Non-Ionizing Radiation Protection (ICNIRP) Guidelines* for limiting exposure to time-varying electric and magnetic fields (1Hz – 100 kHz) (ICNIRP, 2010).	Yes	Yes	Yes
	Bushfire Safety			
B45	The Proponent must: (a) minimise the fire risks of the development, including managing vegetation fuel loads on-site; (b) ensure that the development:	Yes, in that	Yes	Yes

	(i) complies with the relevant asset protection requirements in the RFS's *Planning for Bushfire Protection 2019* (or equivalent) and Standards for Asset Protection Zones; (ii) access tracks to the construction compounds must comply with property access requirements of Table 5.3b of *Planning for Bushfire Protection* (PBP) 2019; (iii) is suitably equipped to respond to any fire on site, including provision of a 20,000 litre water supply tank fitted with a 65 mm Storz fitting and a FRNSW compatible suction connection located at each of the construction compounds; and (iv) incorporates the recommendations of a fire risk assessment as per the network operator's design standards. (c) ensure that buildings with the compounds comply with Australian Standard AS3959-2018 Construction of buildings in bushfire-prone areas (or equivalent) and RFS's *Planning for Bushfire Protection* 2019; (d) ensure any fire trails or asset protection zones associated with the development are wholly contained within the approved development area; (e) develop procedures to manage potential fires on site, in consultation with the RFS, FRNSW and NPWS; (f) assist the RFS, FRNSW, NPWS and emergency services as much as practicable if there is a fire in the vicinity of the site; and (g) notify the relevant local emergency management committee following completion of construction of the development, and prior to commencing operations.	appropriate controls will be included in any PCMW Approval and endorsed by the ER.		
	Emergency Plan			
B46	An emergency plan must be prepared for the development. The plan must: (a) be prepared and implemented prior to commencing construction; (b) be prepared in consultation with FRNSW, RFS, and NPWS; (c) be provided to the local Fire Control Centre, relevant local emergency management committee and FRNSW; (d) be consistent with the Department's Hazardous Industry Planning Advisory Paper No. 1, 'Emergency Planning' and RFS's Planning for Bushfire Protection 2019 guideline; (e) include details on general emergency management planning; (f) detail access provisions for emergency vehicles and contact details for both a primary and alternative site contact who may be reached 24/7 in the event of an emergency; (g) include procedures for the storage and maintenance of any flammable materials; (h) include bushfire emergency management planning consistent with A Guide to Developing a Bush Fire Emergency Management and Evacuation Plan (RRFS, 2014) and Planning for Bushfire Protection (RFS, 2019, or equivalent) including; (i) details of the location, management and maintenance of the Asset Protection Zone and on-site water supply tanks; (ii) a list of works that should not be carried out during a total fire ban; (iii) iidentify the fire risks and hazards and details measure for the development to prevent fires igniting; (iv) include availability of fire suppression equipment, access and water; (v) details of how RFS would be notified, and procedures that would be implemented in the event that: • there is a fire on-site or in the vicinity of the site; • there are any activities on site that would have the potential to ignite surrounding vegetation; or • there are any proposed activities to be carried out during a bushfire danger period; and (vi) detail specific response measures in the case of flood to ensure site safety; (i) include emergency management and evacuation procedures and identification of specific emergency exit routes to be used in the case of flood and include evidence of access agreements with relevant landowners (e.g. right of carriageway); (j) include an Emergency Services Information Package in accordance with Emergency Services information and tactical fire plan (FRNSW, 2019) to the satisfaction of FRNSW; (k) include an Emergency Responders Induction Package to inform first responders of site-specific features and safety measures. (l) operational procedures in the event of bushfires to minimise interference with aerial firefighting operations, and (m) include details of how live transmission infrastructure can be safely isolated in an emergency. Two copies of the plan and Emergency Services Information Package must be kept on-site in prominent positions adjacent to the site entry point(s) at all times.	No	Yes	Yes
	Waste			
B47	Waste generated during pre-construction minor works, road upgrades, construction, operation, upgrading and decommissioning must be dealt with in accordance with the following priorities: (a) waste generation must be avoided and where avoidance is not reasonably practicable, waste generation must be reduced; (b) where avoiding or reducing waste is not possible, waste must be re-used, recycled, or recovered; and (c) where re-using, recycling or recovering waste is not possible, waste must be treated or disposed of.	Yes	Yes	Yes
B48	The importation of waste and storage, treatment, processing, reprocessing or disposal of such waste must comply with the Protection of the Environment Operations Act 1997, the Protection of the Environment Operations (Waste) Regulation 2014, and orders or exemptions under the regulation.	Yes	Yes	Yes
B49	Waste must only be exported to a site licensed by the EPA for the storage, treatment, processing, reprocessing or disposal of the subject waste, or in accordance with a Resource Recovery Exemption or Order issued under the Protection of the Environment Operations (Waste) Regulation 2014, or to any other place that can lawfully accept such waste.	Yes	Yes	Yes
B50	All waste that is removed from site must be classified in accordance with the EPA's Waste Classification Guidelines, with appropriate records and disposal dockets retained for audit purposes.	Yes	Yes	Yes
	Waste Management Plan			
B51	Prior to commencing construction, the Proponent must prepare and implement a Waste Management Plan in consultation with the relevant Council(s), and the EPA. This plan must detail: (a) the anticipated quantity, type and quality of the waste to be generated and their intended fate; (b) details of how waste will be segregated, handled, stored, managed and then collected and transported for treatment and/or disposal; (c) any materials produced which will require a specific Resource Recovery Order; (d) any materials produced under a Resource Recovery Order, and the controls and procedures in place for meeting the conditions of that order; (e) any testing or monitoring procedures; (f) how materials segregation will be achieved, particularly the segregation of contaminated soils, resource recovery materials and waste generated; and (g) the capability of the waste management facilities in Council(s) LGAs to accept the volumes of waste, predicted to be deposited and any associated approvals required to create and/or expand waste storage or disposal facilities and arrangements for transporting waste to the waste management facilities.	No	Yes	Yes
	Accommodation and Employment Strategy			
B52	Prior to commencing construction, the Proponent must prepare an Accommodation and Employment Strategy for the development. This strategy must: (a) be prepared in consultation with relevant Council(s) and informed by consultation with local accommodation and employment service providers; (b) propose measures to ensure there is sufficient accommodation for the workforce associated with the development; (c) consider the cumulative impacts associated with other State significant development projects in the area; (d) investigate options for prioritising the employment of local workers and use of local businesses during the construction and operation of the development, where feasible; and (e) include a program to monitor and review the effectiveness of the strategy over the life of the development, including regular monitoring and review during construction, upgrading and decommissioning. The Proponent must provide a copy of the Accommodation and Employment Strategy to the Planning Secretary prior to commencement of construction, and implement the Strategy.	No	Yes	Yes

	Rehabilitation			
B53	Unless the Planning Secretary agrees otherwise, within 6 months of the completion of construction, upgrading or decommissioning, the Proponent must rehabilitate the areas where ancillary facilities are located. Rehabilitation must comply with the objectives in Table 2. Table 2: Rehabilitation objectives	No	No	Yes
	Rehabilitation Management Plan – State Conservation Area			
B54	Unless the Planning Secretary agrees otherwise, within 6 months of the commencement of construction, the Proponent must prepare a Rehabilitation Management Plan for the development area within the State Conservation Area. The plan must: (a) be prepared by a suitably qualified and experienced person in consultation with the NPWS; (b) describe the detailed measures that would be implemented to comply with the rehabilitation objectives in Table 2 and addressing (i) temporary disturbance areas; and (ii) access trails	No	Yes	Yes
B55	The Proponent must implement the Rehabilitation Management Plan.	No	Yes	Yes
	PART C ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING			
	Environmental Management Plan			
C1	Prior to commencing construction, the Proponent must prepare an Environmental Management Plan for the development to the satisfaction of the Planning Secretary. This Plan must: (a) provide the strategic framework for environmental management of the development; (b) identify the statutory approvals that apply to the development; (c) identify the Environmental Management Documents required for each stage and phase of the development consistent with the Staging Report prepared under condition C4; (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development; (e) include an environmental risk assessment of the development activities and specific risk management controls/mitigation measures to: (i) comply with statutory requirements, limits or performance measures and criteria; (ii) manage the predicted impacts and risks identified in the EIS; and (iii) manage any other environmental risk or impact that has been subsequently identified after the EIS was submitted; **Note:** Environmental risk assessment cannot be used to assess physical changes to the development or an increase in impacts that are not described and assessed in the EIS. These may require a new planning approval and may need to be referred to the Department. (f) include an adaptive management process to be implemented if the review of the risk assessment indicates that any measure that has been implemented is not effective in managing the identified risk(s) and a process to update the measure; **Note:** If a management plan is prepared for a particular environmental aspect, the plan may refer to the monitoring and evaluation processes detailed in the relevant management plan. (g) set out the procedures that would be implemented to: (i) keep the local community and relevant agencies informed about the operation and environmental performance of the development; (ii) receive, handle, respond to, and record complaints; (iii) resolve any disputes that may arise; (iv) respond to any non-compliance; (v) respond to emergencies; and (h) include: (i) references to any strategies, plans and programs approved under the conditions of this approval; (ii) a clear plan depicting all the monitoring to be carried out in relation to the development, including a table summarising all the monitoring and reporting obligations under the conditions of this approval; and (i) include the complaints handling protocol required by condition C2. The Proponent must not commence construction until the Environmental Management Plan is approved by the Planning Secretary.	No	Yes	Yes
	COMPLAINTS HANDLING PROTOCOL			
C2	The Proponent must prepare a Complaints Handling Protocol for the development. The Protocol must: (a) detail how complaints would be received by the Proponent; (b) detail how the contact details for receiving complaints would be communicated to surrounding businesses and/or landowners; and (c) include a complaints register to record the date, time and nature of the complaint, details of the complainant and any actions take to address the complaint. The complaints register must be submitted to the Planning Secretary upon request.	Yes	Yes	Yes
	REVISION OF ENVIRONMENTAL MANAGEMENT DOCUMENTS			
C3	If updates to an environmental management document are required: (a) to include new information or changes to the development as a result of: (i) a modification of project approval; or (ii) a change in the phase of development as notified under condition C10; (b) to update risk controls or mitigation measures in response to a change in risk level identified by review of the environmental risk assessment required by condition C1(f); (c) to address the findings of an Independent Environmental Audit under condition C14; (d) to implement the findings of an incident report required by condition C16; (e) to comply with a directive by the Planning Secretary; the relevant environmental management document(s) must be revised and submitted to the Planning Secretary for approval within three months unless otherwise agreed by the Planning Secretary. **Note:** This is to ensure that environmental management documents are updated regularly and to incorporate any recommended measures to improve the development's environmental performance.	Yes	Yes	Yes
	STAGING DEVELOPMENT DELIVERY			
C4	The development may be undertaken in stages (including but not limited to temporal, location or activity-based staging). Where staging is proposed, the Proponent must prepare a Staging Report for pre-construction minor works, construction, operation or all stages as applicable. The Staging Report must: (a) be endorsed by the ER; (b) be submitted: (i) to the Planning Secretary no later than 1 month before the commencement of the first proposed stage detailed in the staging report; (ii) no later than 1 month prior to the lodgement of any management plan staged under condition C7; (c) provide a clear description of: (i) the trigger for staging the development; (ii) the specific stages and scope of the development proposed in each stage;	Yes	Yes	Yes

	(iii) any existing stages; (iv) any future stages planned; (v) a schedule for the current and future stages; (d) specify how compliance with conditions will be achieved across and between stages; and (e) set out mechanisms for managing cumulative impacts arising from the proposed staging.			
C5	The development must be delivered in accordance with the Staging Report submitted to the Planning Secretary.	Yes	Yes	Yes
C6	Where staging is proposed, the terms of this approval that apply are relevant to the work or activities to be carried out in a specific stage must be complied with at the relevant time for that stage. ***Note:*** *Amendments to the Staging Report are facilitated by submitted a revised staging report in accordance with the above condition*.	Yes	Yes	No
	STAGING, COMBINING AND UPDATING ENVIRONMENTAL MANAGEMENT DOCUMENTS			
C7	With the approval of the Planning Secretary, the Proponent may: (a) prepare any environmental management document required by this approval on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the document applies, the relationship of the stage to any future stages and the trigger for updating the document); (b) combine environmental management documents if the Proponent can demonstrate a clear nexus between the nominated documents, the impact of combining the nominated documents and how the nominated documents will still comply with the conditions of this approval; (c) update any environmental management document required by this approval (to ensure the strategies, plans and programs required under this approval are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development).	Yes	Yes	Yes
C8	Staging requests made to the Planning Secretary must be consistent with the stages detailed in a Staging Report submitted to the Planning Secretary under conditions C4 and C5.	Yes	Yes	Yes
C9	With the approval of the Planning Secretary, an environmental management document may be staged or updated without: (a) consultation being undertaken with all parties required to be consulted in the relevant condition in this approval; and/or (b) addressing particular requirements of the relevant condition of this approval if those requirements do not apply to the specific stage.	No	Yes	Yes
	NOTIFICATIONS - Notification of the Department			
C10	The Department must be notified, in writing, prior to the date of commencement of each of the following development phases: (a) commencement of pre-construction minor works under the approval; (b) commencement of construction under the approval; (c) commencement of operations under the approval; (d) completion of decommissioning of the development. If the phases of the development are to be further staged, the Department must be notified, in writing, prior to the commencement of each stage, noting the date of commencement and the development to be carried out in that stage.	Yes	Yes	Yes
	FINAL LAYPUT PLANS			
C11	Prior to commencing construction, the Proponent must submit detailed plans of the final layout of the development to the Department via the Major Projects website. The final layout plans must include: (a) details on siting of transmission towers and ancillary infrastructure and / or ancillary facilities; and (b) showing comparison to the approved layout and approved vegetation clearing.	No	Yes	No
C12	The Proponent must ensure that the development is constructed in accordance with the Final Layout Plans.	No	Yes	No
	WORK AS EXECUTED PLANS			
C13	Prior to commencing operations, the Proponent must submit plans that confirm the constructed layout of the development and showing comparison to the final layout plans to the Planning Secretary, via the Major Projects website.	No	No	Yes
	INDEPENDENT ENVIRONMENTAL AUDIT			
C14	Independent Environmental Audits of the development must be conducted and carried out in accordance with the *Independent Audit Post Approval Requirements* published on the Department's website.	No	Yes	Yes
	COMPLAINCE			
	Non-Compliance Notification			
C15	Within seven days of becoming aware of a non-compliance, the Proponent must notify the Department of the non-compliance. The notification must: (a) be in writing; (b) submitted via the NSW planning portal (Major Projects); (c) identify the development (including the development application number and name); (d) set out the condition of this approval that the development is non-compliant with; (e) why it does not comply; (f) the reasons for the non-compliance (if known); and (g) what actions have been undertaken or will be undertaken, and when, to address the non-compliance. ***Note:*** *A non-compliance that has been notified as an incident does not need also to be notified as a non-compliance.*	Yes	Yes	Yes
	Incident Notification			
C16	The Proponent must notify the Department and NPWS within 24 hours of becoming aware of an incident. The notification to the Department must be made via the NSW planning portal (Major Projects) and address details of the incident, including: (a) date, time and location; (b) a brief description of what occurred and why it has been classified as an incident; (c) a description of what immediate steps were taken in relation to the incident; and (d) identifying a contact person for further communication regarding the incident.	Yes	Yes	Yes
C17	The Proponent must provide the Department and NPWS with a subsequent incident report in accordance with Appendix 5. *NPWS can be notified to NPWS Kanangara Area via npws.kanangra@environment.nsw.gov.au and Blue Mountains Branch Duty Officer or as otherwise advised by NPWS.*	Yes	Yes	Yes
	ACCESS TO INFORMATION			

C18	Prior to the commencement of Work under this approval until the completion of all rehabilitation required under this approval, the following information and documents must be publicly available on the development website when they are obtained, approved or as otherwise stipulated within the conditions of this approval: (a) the documents listed in Schedule 1 Table 1 of this approval; (b) all current statutory approvals for the development; (c) all approved environmental management documents required under the conditions of this approval; (d) the staging report for the development, if the development is to be staged; (e) a summary of the current stage and progress of the development; (f) contact details to enquire about the development or to make a complaint; (g) a complaints register, updated monthly; (h) audit reports prepared as part of any Independent Environmental Audit of the development and the Proponent's response to the recommendations in any audit report; (i) any other matter required by the Planning Secretary; and (j) keep such information up to date. Where the information / document relates to a particular work or is required to be implemented, it must be published before the commencement of the relevant work to which it relates or before its implementation.	Yes	Yes	Yes
	APPENDIX 5 INCIDENT NOTIFICATION AND REPORTING REQUIREMENTS			
	1. All incident notifications and reports must be submitted via the NSW planning portal (Major Projects). 2. The Proponent must provide notification as required under these requirements, even if the Proponent fails to give the notification required under condition C16 or, having given such notification, subsequently forms the view that an incident has not occurred. 3. Within 7 days (or as otherwise agreed by the Planning Secretary) of the Proponent making the immediate incident notification (in accordance with condition C16), the Proponent is required to submit a subsequent incident report that: (a) identifies how the incident was detected; (b) identifies when the Proponent became aware of the incident; (c) identifies any actual or potential non-compliance with conditions of consent; (d) identifies further action(s) that will be taken in relation to the incident; (e) a summary of the incident; (f) outcomes of an incident investigation, including identification of the cause of the incident; (g) details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence, including the period for implementing any corrective and/or preventative actions; and (h) details of any communication with other stakeholders regarding the incident. 4. The Proponent must submit any further reports as directed by the Planning Secretary.	Yes	Yes	Yes

Appendix C – Application of Revised Environmental Mitigation Measures for each stage of the Project

Condition Ref	Impact	Revised Mitigation Measure	Applicability of mitigation measure to stage		
			Pre-construction Minor Works	Construction	Operations
		BIODIVERSITY			
B01	Avoid and minimise impacts	Opportunities to avoid and minimise impacts on biodiversity will be investigated during detailed design with consideration to retaining vegetation and trees, where possible, to improve connectivity values and/or minimise impacts on threatened species and their habitats, such as threatened Eucalyptus and hollow bearing trees.	Yes	Yes	Yes
B02	General biodiversity impacts	A Biodiversity Management Plan (BMP) will be prepared by a qualified ecologist in consultation with NSW DCCEEW. The BMP will: • include biodiversity values on the site, measures for indirect, prescribed and uncertain impacts, processes and procedures, and responsibilities to minimise the potential for biodiversity impacts during construction • outline induction requirements prior to starting work on site, which will inform the workforce on the biodiversity values of the site, protection measures to be implemented to protect native biota and penalties for breaches • be based on SMART principals (Specific, Measurable, Achievable, Realistic, Timebound) • include a plan for implementing, evaluating and reporting on the effectiveness of all mitigation measures outlined in the BDAR • include an adaptative management approach based on performance triggers for remedial action • include a monitoring and/or auditing process to conform that clearing during construction remains within the predicted clearing of native vegetation and threatened species identified in the BDAR • include a map with co-ordinates showing areas to be cleared and areas to be protected, including exclusion zones and protected habitat features in the vicinity of work areas.	Yes, only where biodiversity values requiring offsetting are impacted as part of PCMW. Otherwise, appropriate controls to be included as part of any PCMW approval. The BMP will be developed during the Pre-construction phase.	Yes	Yes
B03	Removal of vegetation and habitat resources	Prior to the commencement of any work in or adjoining areas of native vegetation, a survey will be carried out to identify threatened plants and threatened species habitat within and adjacent to the subject land that are to be avoided or impacts to be minimised. The survey will focus on identifying occurrences of Eucalyptus cannonii and Eucalyptus aggregata as well as hollow bearing trees directly adjacent to the works area. The BMP will include a Vegetation Clearing Procedure, which will require the limit of clearing and construction boundary to be surveyed and clearly demarcated using high visibility tape. All vegetation outside the boundary will be clearly sign posted and marked on plans as an exclusion zone. Signage will be maintained for the duration of the construction period. Clearing of native shrub and ground layer vegetation will be minimised as far as possible.	Yes,to the extent that the BMP will be developed in Pre-construction. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	Yes
B04	Impacts on riparian vegetation	The BMP will identify opportunities to minimise impacts on shrub or ground stratum vegetation within riparian zones when reviewing final construction methods and staging. Riparian vegetation clearing methods will retain root balls and trunk bases in situ and undertaken in a manner that minimises ground disturbance. Riparian buffers will be clearly marked onsite in accordance with recommended vegetated riparian zones (VRZs) from the *Guidelines for riparian corridors on waterfront land* (DPE 2022) and the *Policy and Guidelines for Fish Habitat Conservation and*	Yes,to the extent that the BMP will be developed in Pre-construction. Appropriate controls to be included as part of any PCMW approval and	Yes	Yes

		Management (Update 2013). Riparian areas within the project footprint and not within construction work zones will be delineated and managed as exclusion zones wherever possible in accordance with mitigation measure B03.	endorsed by the ER.		
B05	Unexpected direct impacts to threatened flora and fauna	An Unexpected Species Finds Protocol will be prepared to detail measures to be undertaken if threatened flora and fauna not previously recorded on site are detected during clearing or construction activities.	Yes,to the extent that the Unexpected Species Finds Protocol will be developed in Pre-construction. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	Yes
B06	Impacts on threatened flora	A pre-clearing survey will confirm all Black Gum and Capertee Stringybark trees that will be removed. Visual markings will be employed prior to any clearing to identify Black Gum and Capertee Stringybark trees that will be removed and retained. Tree protection measures are to be installed and maintained and may include establishment of no-go zones and other practicable measures from AS 4970-2009 – Protection of Trees in Development Sites throughout construction. Any additional removal of native vegetation, including threatened Eucalypts, above the number of individuals identified in the project's BDAR will be avoided wherever possible. In the instance, where additional impact on trees or vegetation cannot be avoided, this will require survey to determine the number of trees, realign tree protection areas and demarcation, and identify the additional credits to be purchased and retired. The BMP will consider measures to work with local Landcare for seed collection from Black Gum and Capertee Stringybark trees to be grown for local restoration projects.	Yes,to the extent that the BMP will be developed in Pre-construction. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	No
B07	Impacts on threatened fauna – SAII entity	Piling for structure foundations within 80 m of the rock outcrop will be conducted outside the breeding period for the Large-Eared Pied Bat (November - January), wherever possible, within the required work program. Biodiversity exclusion zones including a minimum 10 m buffer around the rock outcrop will be established. The boundary of this is to be delineated using a method that does not restrict access for microbats to potential habitat. Pre-clearing targeted surveys by a qualified ecologist will be conducted of the rocky outcrop to confirm the presence/ absence of active roosts prior to construction. Weekly inspections of potential breeding habitat within the rocky outcrop will be conducted by an Environment Officer during construction where this includes the breeding period (November-January). Re-routing of light vehicles will be undertaken to avoid the adjacent access track during the breeding season, if any microbats are recorded in pre-clearance or weekly inspections.	No, no works in this area.	Yes	No

		Alternative lower impact piling methods and foundation designs will be considered during detailed design, subject to geotechnical constraints. This will consider the use of smaller drill rigs and methods of piling with lower noise and vibration impact.			
B08	Fauna management	A Fauna Handling and Rescue Procedure for the management of fauna and habitats will be included in the BMP. These will include: • a procedure for the felling of hollow-bearing trees to prevent or minimise mortality of fauna, and the salvage of hollows and logs where practicable • supervision of hollow-bearing tree removal and salvage by a qualified ecologist • management of any trenches or drill sites to prevent fauna from becoming trapped or injured	Yes,to the extent that the BMP will be developed in Pre-construction. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	Yes
B09	Pre-clearing surveys	Pre-clearing surveys will be undertaken prior to construction by a suitably qualified ecologist. The surveys and inspections, and any subsequent relocation of species, will be undertaken in accordance with the BMP. Specific surveys include: • surveys for roosting microbats or occupied nests for any man-made structures to be removed • searches for nests in vegetation to be removed • identification of fauna refuge sites potentially requiring fauna management during removal, including woody debris as well as human made material such as metal sheets.	Yes,to the extent that the BMP will be developed in Pre-construction. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	Yes
B10	Post-clearing report	A post-clearing report will be prepared documenting all animals that are handled or managed within the site during vegetation clearing. Data to be recorded includes: • date and time of the fauna interaction or sighting and details of the observer • species (if known) or a photograph • number of individuals recorded • adult/juvenile • condition of the animal (living/dead/injured/sick) • management action undertaken (eg captured, handled, taken to vet) • results of any management actions (eg released, placed in a nest box, euthanised, placed with carer). The post-clearing report is also to include and maintain an inventory of hollows and fallen timber that have been salvaged and relocated	No	Yes	Yes

B11	Fauna habitat strategy	The BMP will include a Nest Box Strategy for tree hollows impacted during the clearing of vegetation, developed in consultation with NPWS. The strategy would include (at a minimum): • reuse of hollows, where appropriate • identification of target species that best benefit from installation of nest boxes • identification of alternative methods of replacing or creating hollows, cavity sizes • the number required when assessed against retained hollows • monitoring • the use of nest boxes as an immediate measure (ie for rescue and relocation of fauna during clearing).	No	Yes	Yes
B12	Rehabilitation of vegetation subject to temporary disturbance	A Rehabilitation Management Plan (RMP) will be prepared to guide rehabilitation planning, implementation, monitoring and maintenance of the following disturbed areas within the construction footprint: • construction compounds and laydown areas • brake and winch areas • areas of the easement where vegetation is allowed to regrow.	No	Yes	Yes
B13	Pathogen spread and establishment	All machinery entering the site will be appropriately washed down to be vegetation-and-soil free prior to work on site, to prevent the potential spread of disease in accordance with the Protocols to protect priority biodiversity areas in NSW (DPIE 2020d). Protocols to prevent introduction or spread of chytrid fungus will be included in the BMP and implemented following the Hygiene guidelines for wildlife (DPIE 2020d).	Yes	Yes	Yes
B14	Spread of weeds	Declared priority weeds will be managed according to requirements of the NSW Biosecurity Act 2015. Soil material and stripped groundcover vegetation with the potential to contain priority weeds will not be removed from the project footprint. Soil disturbance would be avoided as much as possible to minimise the potential for spreading weeds. Declared priority weeds will be managed according to requirements of the Biosecurity Act 2015. The BMP will include a Biosecurity Management Plan to outline measures for managing declared priority weeds during construction. Weed control strategy during the operational stage of the project will be guided by existing Transgrid operational weed management procedures. During maintenance activities, general biosecurity duty obligations will be implemented as per existing Transgrid procedures. Biosecurity risks within the works footprint, such as weeds, will also be assessed and control measures implemented, as required, to manage existing or emerging issues.	Yes	Yes	Yes
B15	Habitat connectivity	A Habitat Connectivity Strategy will be prepared for all affected threatened fauna species with a focus on threatened species including Squirrel Glider and other arboreal species that rely predominately on mature trees and canopy to move through the landscape. The strategy will: • identify measures to provide equal or improved connectivity than is provided by the current maintained easement • include designated exclusion areas and tree retention as well as partial clearance areas as a first priority before other measures, including opportunities for revegetating to retain vegetation associated with creek lines with vegetation of an appropriate height within the Gardens of Stone SCA and/or considering the feasibility of installing crossing structures. This would include: - Modelling of existing and post construction glider crossing opportunities. - Assessment of fauna species recorded or considered likely to occur and review of suitable crossing structures and their effectiveness for these particular species. - Assessment of projected line clearance requirements and opportunities to install connectivity structures below the transmission line focussing on riparian areas where topography allows greater clearance. The Connectivity Strategy will be implemented together with Vegetation Clearance Requirements for the maintenance and operation of the transmission line.	No	Yes	Yes

B16	Injury or mortality from transmission line collision, entanglement, or electrocution	Use of fauna deterrent devices, consisting of the “flapper” variety, will be used within areas of open habitat along the Coxs river. to minimise impacts on the threatened bird and bat species, such as raptors which includes the White-bellied Sea Eagle. The positioning and the deterrent model will be developed as part of the habitat connectivity strategy.	No	Yes	Yes
B17	Removal of riparian vegetation around Coxs River	Following construction, consider initiatives to improve riparian zones for aquatic biota, such as revegetation, in consultation with DPIRD-Fisheries WaterNSW (for flooding perspective) and relevant other stakeholders. Where feasible and reasonable initiatives exist, they are to be implemented during post-construction site restoration.	No	No	Yes
B18	Instream works in minimal key fish habitat of watercourses	Construction activities occurring in or adjacent to watercourses providing key fish habitat, including Class 1 (major) ‘Coxs River’ to Class 3 (minimal) fish habitat ‘Unnamed tributaries of Wangcol Creek (a) and (c)’, are to minimise any additional restriction to fish passage from current conditions and be undertaken in accordance with: • the Policy and guidelines for fish habitat conservation and management (DPI 2013) • the Controlled activities – Guidelines for watercourse crossings on waterfront land (DPE 2022b).	No	Yes	Yes
B19	Spread of invasive fish species	Any invasive fish will not be discharged to a natural watercourse as required under the Fisheries Management Act 1994 and Biosecurity Act 2015.	Yes	Yes	Yes
B20	Surface water dewatering at culvert crossings	Consult with DPIRD on the management of aquatic biota for any proposed dewatering of the Coxs River oxbow for construction of the culvert crossing, and any proposed discharge of surface water to/ from waterways.	No	Yes	Yes
B21	Threatened fauna species – Purple Copper Butterfly	Prior to the operational phase, an environmental assessment will be prepared that considers up-to-date records of the NSW BioNet data for the Purple Copper Butterfly. Transgrid will implement its established procedures for working in areas with Purple Copper Butterfly presence or potential.	No	Yes	Yes
		NOISE AND VIBRATION			
NV01	Construction noise and vibration management	A Construction Noise and Vibration Plan (CNVMP) will be developed in consultation with NSW EPA and implemented as part of the CEMP. The CNVMP will generally follow the approach outlined in the ICNG and include: • identification of sensitive receivers, including sensitive threatened fauna and their nearby habitats in consultation with a qualified ecologist, and heritage structures (ie Wallerawang Rail Bridges over Coxs River (SHR #01064), the St John the Evangelist Church (SHR #01702, LEP#I112) and Braemai (LEP #I193)) and underground utilities including the Fish River Water Supply Scheme • an updated construction noise and vibration assessment based on final construction staging, compound locations and details, selected equipment types and proposed OOHW periods • all potentially high noise and vibration generating activities associated with the construction of the project • standard and additional mitigation measures to manage identified impacts as required in accordance with the Construction Noise and Vibration Guideline (Roads), including safe working distances when working near heritage structures to avoid vibration damage and measures to protect underground utilities including the Fish River Water Supply Scheme • a monitoring program to assess performance against relevant noise and vibration criteria • arrangements for consultation with affected neighbours and sensitive receivers where exceedances are predicted of NMLs, including notification and complaint handling procedures • details of the process and actions to be taken in the event of non-compliance with noise and vibration criteria.	Yes to the extent that the CNVMP will be developed in Pre-construction. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	No Noting a NMVP for operation will be developed in accordance with Condition B11

NV02	Construction noise (source controls)	As part of development of the detailed design and construction methodology, all reasonable and feasible mitigation measures will be considered, confirmed and implemented, in line with the ICNG (DECC, 2009), to minimise construction noise impacts and to avoid exceedances of the applicable noise management levels at adjacent sensitive receivers, where practicable. Measures that may achieve this outcome may include, but not limited to the following: • Portable temporary noise screens will be erected adjacent to stationary or long term static noise sources, or noise generating items, where reasonable and feasible. • Spotters, "smart" reversing alarms, or broadband reversing alarms will be used in place of traditional tonal beeper reversing alarms, particularly on equipment where reversing alarms are frequently in use such as rollers, loaders or compactors. • Noise source controls, such as the use of residential class mufflers, will be used reduce noise from all plant including cranes, excavators and trucks. • The offset distance between noisy plant items and sensitive receivers will be maximised, where reasonable and feasible. • Machinery will be operated in a manner which reduces maximum noise level events such as shaking excavator buckets, dropping materials into trucks from a, height or steel on steel contact. • Construction plant and equipment will be turned off when not in use.	Yes	Yes	Yes
NV03	Construction noise (administrative controls)	Opportunities to reduce exceedances of the applicable construction noise management levels through the implementation of administrative controls will be examined, confirmed and implemented where reasonable and feasible in line with the ICNG (DECC, 2009). Controls to be considered will include, but not limited to the following: • Environmental awareness training and inductions for site personnel will include noise mitigation techniques/measures to be implemented when on site and accessing the site. • Plant and equipment will be selected based on noise emission levels. This will include the consideration of alternative piling and stringing methods, such as the use of bored piling methods and drones for stringing. • Noise-intensive works will be limited to less sensitive construction hours (i.e. Away from early morning and late afternoon periods) as far as practicable, when working in the vicinity of sensitive receivers. • Plant and equipment will be well maintained to ensure that excessive noise is not generated. • Noise level predictions for works undertaken outside standard working hours will be confirmed and verified in accordance with the ICNG (DECC, 2009) by the construction contractors. This will consider implementation of additional construction noise mitigation measures.	Yes	Yes	Yes
NV04	Construction Compounds	Where reasonable and feasible, measures will be taken to minimise noise emissions from construction compounds using the following principles: • The layout of the construction compounds C2 and C3 will be planned so that the primary noise sources are at a maximum distance from residences, with solid structures (sheds, containers, etc.) placed between residences and noise sources (and as close to the noise sources as is practical). • Enclosures will be used to shield fixed noise sources such as pumps, compressors, fans, screens (where practicable). • Site topography will be considered when situating plant to block line of sight where possible.	Yes	Yes	Yes
NV05	Construction noise – OOHW period	A project-specific OOHW protocol will be developed to define the process for considering, approving and managing OOHW. The protocol will include provisions to: • confirm and verify proposed noise level impacts for specific work activities proposed outside standard construction hours, including the potential for sleep disturbance impacts • confirm and verify the potentially affected sensitive receivers and the standard and additional mitigation measures that will be applied to such receivers • additional mitigation measures will be applied to affected sensitive receivers impacted by sleep disturbance for more than two consecutive nights • notify and engage with potentially noise affected receivers about upcoming work outside standard construction hours and address any associated complaints • identify appropriate respite for noise affected receiver (where required) • proactively communicate and engage with affected receivers.	Yes, to the extent that the OOHW Protocol will be developed in Pre-construction. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	Yes

NV06	Construction vibration	Where vibration intensive activities are planned within vibration minimum working distances (including for sensitive or heritage structures and buried infrastructure), reasonable and feasible mitigation measures will be implemented. These measures will include, and not be limited to: • pre- and post-construction condition surveys of vibration sensitive receivers within the recommended safe working distances prior to construction works • alternative construction methods and equipment with lower source vibration levels will be investigated and implemented, where feasible, this will include consultation with a suitably qualified heritage specialist for any potential vibration impacts on heritage structures • schedule the use of vibration-sensitive equipment during the least sensitive times of the day • sequence operations to avoid or minimise concurrent vibration intensive activities • vibration monitoring will be carried out at the start of work to determine actual vibration levels at the receiver • work will cease if the monitoring indicates vibration levels are likely to, or do, exceed the relevant criteria • where potential vibration impacts relate to buried infrastructure, measures to protect the buried infrastructure will be developed in consultation will be undertaken with asset owners. These measures may include traffic management, construction equipment selection, construction bench siting and the placement of additional cover, plating or bog mats.	Yes	Yes	Yes
NV07	Construction traffic noise	Management of construction traffic noise on local roads will be included in the CNVMP. The CNVMP will consider the following controls: • scheduling and routing of construction traffic to minimise impacts using the following principles: - more even distribution of traffic movements across the various access roads during the daytime period to reduce the peak 1-hr period traffic noise levels - scheduling of movements at less-sensitive times for impacted receivers. • implementing temporary construction traffic speed limits on access roads in the vicinity of potentially impacted noise sensitive receivers.	Yes	Yes	No
NV08	Cumulative construction noise	Where cumulative construction noise impacts are likely at sensitive receivers, coordination with other proponents will occur to minimise the cumulative construction noise impacts. This should involve: • scheduling of noise or vibration-generating construction activities to minimise the duration or level of impact • combined approach to mitigation where considered reasonable and feasible such as a temporary noise barrier that may provide mitigation for more than one project • consideration of cumulative noise levels in compliance monitoring • community consultation, notification and complaints handling are to include consideration of cumulative impacts.	Yes	Yes	No
NV09	Aerial noise - drone use	Management measures will be implemented to minimise drone noise at sensitive receivers where practicable and appropriate. Measures will include (but are not limited to) consultation with nearby sensitive receivers on upcoming work involving drones including scheduled dates, locations, indicative hours and a description of the proposed works.	Yes	Yes	Yes
NV10	Corona noise	For each residence where potential operational noise levels from the project are predicted to exceed the noise criteria, verification monitoring is required to confirm actual operational noise levels. Monitoring will be carried out: • within six months of the project's commencement of operation • to respond to a request of the landowner within two (2) years after the project's commencement of operation. The noise monitoring will occur during weather/atmospheric conditions conducive to generating the corona effect. For residences where the monitoring identifies corona discharge levels above 35 dB(A) LAeq,15min at the most affected point of the residence, consultation will be undertaken with the landowner of the affected residence to identify reasonable and practicable measures. Measures may include at property treatment to upgrade aspects of the dwellings including the façade or ventilation systems.	No	No	Yes
NV11	Corona noise - cumulative impact	Consultation and co-ordination with nearby proponents, including proponents of the Great Western BESS, to minimise cumulative at-property impacts from audible corona noise.	Yes	Yes	Yes

		TRAFFIC AND TRANSPORT			
T1	Traffic management and road network performance	A Traffic and Transport Management Plan (TTMP) will be developed and implemented as part of the CEMP, in consultation with relevant stakeholders. The plan will detail processes and responsibilities to minimise traffic disruptions and delays, to identify and to respond to changes to road access. The TTMP will include: • Consultation and approval of road designs from Lithgow City Council for any proposed minor road work, such as a passing bay on the shoulder of Brays Lane. The need for a passing bay will be determined in consultation with relevant road authorities. • Maps of designated and approved heavy vehicle routes for heavy vehicles and oversize and overmass movements. • Traffic and transport permitting requirements, including oversize and overmass movements permits and road occupancy licences. • Planning for heavy vehicle routes to access point 12 via Heel Street, as well as the alternate heavy vehicle route for access points 4 and 5, which are to be confirmed through consultation with Lithgow City Council. • Transmission line stringing across the Main Western Rail Line to be undertaken within scheduled rail shutdown period (ie, planned rail maintenance) or as agreed with the appropriate rail authority. • Road closures (partial or full) will be planned during the road network off-peak periods, where possible. • A drivers' code of conduct for heavy vehicle safety. • Requirements for drivers operating heavy vehicles on public roads. • Measures to ensure the efficient delivery of equipment and construction materials. • Traffic control measures at construction access points and intersections, including: -- left-in/ left-out turn movements at the Karawatha Drive/Castlereagh Highway intersection, including details of required signage for this arrangement to construction vehicles only - signage to prohibit the use of the unsealed track located south of the Karawatha Drive/Castlereagh Highway intersection - internal site traffic management to ensure only one 19 metre articulated vehicle arrives and departs at any one time on Karawatha Drive - traffic control at the Frankfort Road/Boulder Road intersection, including the requirements for obtaining a road occupancy licence. - traffic management at Brays Lane and Main Street during stringing works, including the requirements for obtaining a road occupancy licence. • Measures to reduce construction traffic movements at Brays Lane/Castlereagh Highway. This will include reducing trips taken by personnel and contractors, such as carpooling and shuttle bus services. • Measures to monitor construction traffic movements occurring to and from the project footprint and between work areas, including the consideration of: - Recording of vehicle entry and exit movements to ensure they are within the project's worst case peak traffic generation estimates - Undertaking visual traffic inspection during peak hours to identify any unacceptable queuing. • Measures for the protection of underground and above ground services and utilities, which may include speed restrictions to reduce dynamic loading and vibration and establishing designated crossing points for access tracks • Consultation with other relevant project proponents to consider cumulative traffic impacts and identify the need for project-specific mitigation measures. • Visual monitoring of the road shoulder condition will be undertaken at the intersection of Karawatha Drive / Castlereagh Highway intersection during the construction period to ensure surface degradation does not occur, should vehicles inadvertently track off the sealed carriageway.	Yes, to the extent that the TTMP will be prepared during pre-construction phase. No road upgrades are proposed as part of the PCMW. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	Yes
T2	Potential access impacts	Where temporary disruption to access cannot be avoided, consultation will be undertaken with the owners, occupants and managers of affected properties and road infrastructure to confirm their access requirements and determine any alternative arrangements required.	Yes	Yes	Yes
T3	Impacts on local roads	Road dilapidation surveys will be undertaken of Brays Lane and Karawatha Drive, prior to and following the completion of construction, and provided to the relevant road authority. Condition monitoring will be carried out during construction.	Yes	Yes	No

		Rectification measures will be implemented to the satisfaction of the road owner, during and/or following completion of construction, to address any damage caused by the project.			
T4	Intersection sight distance	Confirmation of safe sight distances for all proposed access points' will be undertaken when preparing the TTMP in consultation with the relevant road authority. Mitigation measures to meet safe sight distances at proposed access points and intersections will be adopted for: • intersection of Boulder Road/Frankfort Road requiring traffic control • intersection of Boulder Road/Mount Piper Power Station access road requiring vegetation trimming • intersection of Castlereagh Highway/Karawatha Drive requiring Leftin/Left-out access arrangement. All mitigation measures will be developed in consultation with the relevant road authority. Ongoing consultation with Transport for NSW will occur for improving the existing road sign on the southern approach to the Boulder Road / Castlereagh Highway intersection.	Yes	Yes	Yes
T5	Brays lane bridge crossing	Prior to using Brays Lane by proposed heavy vehicles and OSOM equipment, a suitably qualified structural engineer will assess the structural integrity of two bridge culvert crossings. Where structural load restrictions are identified, alternative routes for heavy vehicles and equipment, including the use of Access Points 1, 1a or 2, will be identified and discussed with the relevant road authority.	Yes	Yes	No
		LANDSCAPE VALUE AND VISUAL AMENITY			
LV1	Impacts on LCZ1	The removal of existing trees and vegetation will be minimised in the detailed design and construction as much as practicable to retain as much natural bushland character as possible. Trees with high associated conservation value will be identified to be retained and protected where practicable.	Yes	Yes	Yes
LV2	Impacts of access track construction on landscape character and visual amenity	Temporary and permanent access tracks will be designed to minimise the removal of existing vegetation and minimise any landform changes to reduce the overall landscape character and visual impacts.	No	Yes	Yes
LV3	Visual impacts on sensitive visual receivers	Opportunities to plant screening vegetation to minimise impacts on VP06 will be investigated in consultation with affected landowners.	No	Yes	Yes
LV4	Lighting impacts on sensitive receivers	Lighting during construction of the project will be designed and operated in accordance with guidelines in *AS 4282 2019 Control of the obtrusive effects of outdoor lighting*. Principles to be considered as part of the design and operation of light would include: • lighting is only used when areas are in use and are switched off when not required • lighting is to be positioned close to the ground and/or angled downwards • lighting intensity is to be as low as possible to suit the task being undertaken and consistent with any safety requirements • ensure lights are not directed at reflective surfaces and that the amount of reflective surfaces is minimised with use of non-reflected dark coloured surfaces, where possible • use of light shield fittings to direct light to areas required and to minimise light spill • lighting should be directed away from sensitive receivers, where possible.	Yes	Yes	Yes
		ABORIGINAL HERITAGE			

H1	General	An ACHMP will be prepared in consultation with the RAPs and DPHI - Planning, with input from Heritage NSW. The ACHMP will include: • an Unexpected Heritage Finds Protocol for any new discovery of Aboriginal artefacts as per the detailed methodology described in the ACHAR • an unanticipated skeletal find protocol as described in detail in the ACHAR • a process for engaging with RAPs prior to and during construction of the project • salvage methodology • heritage induction procedures • provisions for the long-term management of the Aboriginal objects that are salvaged.	Yes, to the extent that the ACHMP will be developed in Pre-construction. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	Yes
H2	Impact avoidance	Impacts on Aboriginal heritage sites will be avoided for Springvale Colliery (45-1-0237), WPS-IF1 (45-1-2800) and WPS PAD 2 by implementing: • a no-go zone for 45-1-2800 • adopting construction and maintenance work methods that avoid ground disturbance. These methods will be monitored during operation and maintained as necessary. All Aboriginal heritage sites within the project footprint and PAD sites that extend outside the project footprint will be clearly marked on construction plans, and mapped and recorded in Transgrid's GIS system to avoid impacts.	Yes	Yes	Yes
H3	Surface Salvage	Sites 45-1-0215 and 45-1-2967 will be salvaged through the recording and collection of the surface artefacts, prior to construction in accordance with the salvage methodology described in the ACHAR.	Yes	Yes	Yes
		HISTORIC HERITAGE			
HH1	General	A Historic Heritage Management Plan (HHMP) will be prepared in consultation with Council, the DPHI - Planning and Heritage NSW, as required. The HHMP will include: • an unanticipated finds protocol and heritage induction/toolbox requirements • the location and curtilage extents of Wallerawang Rail Bridges, St. John the Evangelist Church and the Old Wallerawang School House on mapping. This includes details of the exclusion zone over a portion of the Old Wallerawang School House (LEP #I113) curtilage to the south-west of the project footprint • consideration of alternative construction methods to avoid impacts to the Wallerawang Rail Bridges over Coxs River (SHR no. 01064) and the requirement for vibration monitoring in consultation with a suitably qualified heritage specialist. • requirements for inductions and toolbox talks to include a summary of the significance of heritage items, legislative responsibilities and appropriate mitigation measures.	Yes, to the extent that the HHMP will be developed in Pre-construction. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	Yes
HH2	Wallerawang Rail Bridges over Coxs River	Use of the existing access road within the heritage curtilage for Wallerawang rail bridges over Coxs River (SHR #01064) will be limited to light vehicles to avoid impact on the bridge heritage fabric or values of the bridges. Signage will be erected and maintained during construction advising of the height limitations. No upgrades to this track are to occur within the curtilage area of the item.	Yes	Yes	Yes
		LAND USE AND AGRICULTURE			
LU1	Property impacts	Property Management Plans (PMPs) or other agreements will be prepared in consultation with impacted landowners, including DPHI-Crown Lands and WaterNSW. The plans or agreements will define the works required during construction, properties affected by easement acquisition and properties requiring adjustments as a result of the project. Works will include, but not be limited to, adjustments to property access, internal roads and fences (if required). The PMPs or agreement may include: • measures to reduce property impacts, including impacts on agricultural operations • specific requirements to ensure that disruption to operations, including the movement of livestock as agreed with landowners	Yes	Yes	Yes

		• required adjustments to and/or replacement of affected structures • biosecurity and rehabilitation measures to be implemented as outlined in the BMP.			
LU2	Property, asset and infrastructure impacts	Pre-condition assessments of assets, infrastructure and the general condition of the land, asset or infrastructure at risk of impact during construction within the project footprint will be completed. The requirements for rectification or rehabilitation will be agreed or determined with the asset owner or landowner.	Yes	Yes	No
LU3	Impacts on Centennial Coal Springvale operations	Confirmation of requirements for use of internal roads within Centennial Coal's Springvale site will be sought through ongoing consultation prior to and during construction. Details of any specific requirements would be included in the Traffic and Transport Management Plan.	Yes	Yes	No
LU4	Impacts on the SCA	Access for NPWS personnel will be maintained, where required, and will be determined in consultation with NPWS. Details of any specific requirements would be included in the TTMP.	Yes	Yes	Yes
LU5	Impacts on Crown land	Temporary and permanent impacts and use of Crown land will be undertaken in accordance with any licences and consents required to be obtained in accordance with the Crown Land Management Act 2016 and in consultation with Department of Planning, Housing and Infrastructure (Crown Lands).	Yes	Yes	Yes
LU6	Impact on land subject to Native Title claim	Transgrid will continue to consult with the Warrabinga-Wiradjuri Native Title Claimants about potential impacts to the claim area to assist Transgrid in understanding and appropriately managing potential land use issues that may arise.	Yes	Yes	Yes
LU7	Impacts on utilities	The location of all utilities and services, and requirements for access to, diversion, protection and/or support of utilities will be confirmed prior to construction and included on all site plans, including WaterNSW Fish River Water Supply Scheme pipeline. This will include (as required) undertaking utilities investigations, including intrusive investigations, and consultation and agreement with asset owners and service providers. In the event that service interruptions are required, notice will be given by the relevant asset owner. The Emergency Management Plan will include communication and reporting of incidents on utilities to the relevant asset owner.	Yes	Yes	Yes
LU8	Land degredation	Vegetation clearance is to be minimised to prevent further degradation of land. Vegetation clearing methods will be determined based on vegetation.	Yes	Yes	Yes
LU9	Land rehabilitation	Woody material from vegetation clearing that is weed free will be considered for beneficial reuse as part of rehabilitation works.	No	Yes	Yes
LU10	Land rehabilitation	Topsoil would be scraped off, stockpiled separately for possible reuse in resurfacing and rehabilitation at end of the construction work.	No	Yes	Yes
		WATER RESOURCES			

W1	Water quality	A Soil and Water Management Plan (SWMP) will be prepared and implemented as part of the CEMP. The SWMP will include: • an outline of relevant legislation, policies and guidelines relevant to the handling and storage of hazardous materials • ESCPs prepared in consultation with a CPESC, or Registered Soil Practitioner (RSP_ESC), or similarly qualified professional • detail on processes such as regular inspection, monitoring, auditing and maintenance of erosion and sediment controls, roles and responsibilities and measures to manage potential soil and water quality impacts during construction • hold points for installation of erosion and sediment controls • measures to minimise the potential for chemical spills, including storage in bunded areas • outline of the frequency and type of water quality monitoring, if required, in relation to sensitive environments and high risk landforms.	Yes to the extent that the SWMP will be prepared during pre-construction phase. No road upgrades are proposed as part of the PCMW. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	Yes
W2	Flooding	An Emergency Management Plan will include a Flood Risk Management Plan (FRMP), which will be prepared in consultation with the SES. The FRMP will include a Trigger Action Response Plan to detail how and when actions will be taken. The plan will also outline the following: • workers and visitors will be inducted onto the Plan. • works will not commence or continue in construction areas that are at risk of flooding. • people, machinery and materials will be removed from construction areas prior to any flood event that is predicted to impact the construction area. The construction program will schedule and carry out works in flood-risk areas in periods of dry, stable weather as far as practicable. To further manage risk, resources will be made available to reduce the duration of works within flood-risk areas.	Yes, a Flood Risk MP will be prepared during pre-construction. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	Yes
W3	Flooding	Structures within flood liable areas will be designed and constructed to withstand a 1 in 100 AEP event.	No	Yes	Yes
W4	Flooding	No maintenance activities will be undertaken where flood risk exists. Rainfall and catchment conditions will be monitored during maintenance activities to ensure safety of people and environment. As soon as it is safe and practicable after flood events, structures will be checked for damage. Remediation work will be undertaken if required.	No	No	Yes
W5	Groundwater impacts and dewatering	A groundwater dewatering procedure will be prepared and implemented as part of the SWMP. The procedure will define measures for the appropriate management of extracted groundwater, including: • reviewing groundwater volumes, such as inflows and extraction • identifying licencing requirements • water quality testing of intercepted groundwater to inform treatment (if required), disposal and/or discharge requirements • a groundwater trigger action response plan that will be implemented in the event that groundwater inflows are greater than expected.	Yes, to the extent that the groundwater dewatering procedure will be developed during pre-construction phase. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	Yes

W6	Waterfront land	Detailed design and construction for works on waterfront land be in accordance with the Guidelines for Controlled Activities on Waterfront Land (DCCEEW 2025).	Yes	Yes	Yes
		HAZARD AND RISK			
HR1	AM and VHF band telecommunication interference from high voltage transmission lines	If adverse radio interference effects are reported within 12 months of operation, practical rectification measures (including signal boosting equipment and antenna upgrades) will be considered. This will be carried out in consultation with the relevant landowners.	No	No	Yes
HR2	MF exposure	Design of the transmission line will be in accordance with the ICNIRP guidelines and Transgrid's Transmission Line Design Manual – Major New Build Rev 2.0. This will include phasing of the conductors to minimise the level of electric and magnetic fields generated.	No	Yes	Yes
HR3	Bushfire Management Plan	A Bushfire Management Plan will be prepared in accordance with Planning for Bush Fire Protection (PBP; RFS 2019) in consultation with the RFS and NPWS and implemented as part of the Emergency Management Plan. It will include the following: • asset protection zones (APZs) for construction compounds following consultation with relevant landowners in relation to APZ locations and management • APZs to be managed to the standards of Inner Protection Area outlined in Appendix 4 of PBP • avoidance of local concentration of bushfire fuels from vegetation removal • maintenance of infrastructure and equipment so as to reduce bushfire risk • safe work systems for workforce and firefighter safety from bushfire impacts, including bushfire hazard identification, hazard reduction and controls including the siting of flammable materials • safe work procedures for activities that have potential for fire ignition, including hot works and flammable material storage • induction and training of personnel, including risks and management measures associated with construction equipment and activities • firefighting equipment to be provided on site • details of site access and internal road plans based on construction staging • details of the location and quantity of water supplies and storages for fire fighting purposes.	Yes, insofar as management controls will be in place during any approved PCMW activities.	Yes	Yes
HR4	Emergency access during bushfire	The Emergency Management Plan to be developed for the project will include bushfire emergency management and an evacuation plan consistent with the Guide to Developing a Bush Fire Emergency Management and Evacuation Plan (RFS 2014) and section 8.3.5 of Planning for Bushfire Protection (RFS 2019). The Emergency Management Plan will address the requirements for evacuation routes and access as outlined in NSW Fire Trail Standards (RFS, 2023).	Yes, to the extent that the Bushfire Management Plan will be developed during pre-construction. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	Yes
HR5	Disruption of aerial application operations	If local aerial operators identify the need for a risk assessment, the standards outlined in the AS 3891.2:2018 Air navigation – Cables and their supporting structures – Marking and safety requirements Part 2: Low level aviation operations will be followed.	No	Yes	Yes

		SOILS, GEOLOGY AND CONTAMINATION			
SC1	Soil and groundwater contamination	Disturbance to AECs identified as having a potentially complete source-pathway-receptor linkage in the Contamination Assessment, will be managed in accordance with a SWMP that will include: • procedures for dewatering, specifying capture, storage, and testing requirements • measures to minimise exposure and migration of potentially contaminated soil in excavated spoil, including handling and storage procedures • relevant HSE requirements, including staff inductions and PPE to minimise the risk of dermal contact and inhalation • requirements for soil testing of excavated soils in accordance with EPA's waste classification guidelines and NEPM (2013), to identify opportunities for onsite reuse or offsite disposal (eg contaminated material) at licenced facility • contaminated groundwater will not be released to the surrounding environment and will be disposed of at a licenced facility. Elements of the SWMP relating to contamination will be prepared, or reviewed and approved by a suitably certified consultant. In AECs with potentially complete source-pathway-receptor linkages, ground disturbance will be minimised to the extent practicable and construction staged with progressive rehabilitation to minimise the amount of disturbed land at any one time.	Yes, to the extent that the SWMP will be developed during Pre-construction. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	Yes
SC2	Soil contamination – compound sites	At the construction compound sites, the avoidance and minimisation of ground disturbance will consider the importation and placement of engineering fill, Excavated Natural Materials (ENM) or Virgin Excavated Natural Materials (VENM) as a construction base to avoid disturbance of potentially contaminated soils in these areas. If excavation and earthworks is required, the contamination status of the surface soils will be assessed and management, if necessary, will be undertaken in accordance with procedures detailed in the CEMP.	Yes	Yes	No
SC3	Soil and groundwater contamination	The CEMP will include an adaptive management approach to reduce human health risk and environment risk. The approach will respond to soil contamination test results and if additional contamination-related information becomes available, for example contamination reports relating to AEC 10, which may inform the need for further assessment and additional management measures in accordance with: • the Assessment of Site Contamination (NEPC 2013) • the Waste Classification Guidelines (NSW EPA 2014). An Asbestos Management Plan will be prepared to outline management measures to prevent the mobilisation of airborne asbestos fibres. Any remediation of the construction work area as a result of accidental spills or encountering contaminated materials, will be undertaken based on a site specific Remedial Action Plan (RAP). The RAP will define remedial goals and objectives, performance criteria for remedial effort and remediation methodology. A validation report will be prepared after remedial effort and be in accordance with the NSW EPA Guidelines for Consultants Reporting on Contaminated Land (NSW EPA, 2020b).	No	Yes	Yes
SC4	Hazardous materials audit	Prior to the demolition of any structure and/or building, including transmission structures, a hazardous materials audit would be undertaken in accordance with Australian Standard AS 2601-2001: The demolition of structures, if information on materials is not already available.	No	Yes	Yes
SC5	Storage and handling of hazardous substances	Chemicals, fuels, oils or other hazardous substances will be stored, handled and used in accordance with relevant legislation, Australian Standards and other applicable guidelines, including Transgrid procedures. A spill response procedure will be developed and implemented as part of the SWMP. Spill kits will contain materials suitable for the work being undertaken. Portable spill kits will be easily accessible and available to onsite construction, maintenance	Yes	Yes	Yes

		personnel and contractors when accessing transmission lines. All onsite construction and operational personnel will be inducted in spill response procedures.			
SC6	Unexpected contamination	The discovery of any unexpected contamination during construction will be managed in accordance with an Unexpected Contaminants Finds Protocol which will be prepared as part of the SWMP prior to construction. This protocol will be prepared by, or reviewed and approved by a suitably certified consultant.	Yes	Yes	Yes
SC7	Acid sulfate soils	Prior to ground disturbance in areas of potential acid sulfate soil or rock occurrence, testing will be carried out to determine the presence of actual and/or potential acid sulfate soils or rocks. If acid sulfate soils or rocks are encountered, they will be managed in accordance with the Acid Sulfate Soil Manual (ASSMAC, 1998) and Transgrid's Health, Safety and Environment Guideline.	Yes	Yes	Yes
		ECONOMIC BENEFIT ENHANCEMENT			
E1	Labour demand and employment	An Aboriginal Participation Plan (APP) and an Australian Industry Participation Plan (AIPP) will be prepared and implemented for the project in line with First Nations Guidelines (such as the Australian Government Indigenous Procurement Policy (IPP)) and the Renewables Energy Sector Board Plan (Office of Energy and Climate Change, 2022). The key objective of the Plans will be to ensure full, fair and reasonable opportunities for local, regional and Indigenous businesses to participate in the project's supply chain. The Plans will: • identify and provide initiatives to maximize opportunities for local businesses to supply goods and services • identify how local participation will be promoted • identify and describe opportunities for stakeholder collaboration and partnerships with Council, the local chamber of commerce and Local Aboriginal Land Councils • identify initiatives for industry workforces to transition between industry sectors • consider potential cumulative economic effects in consultation with industry and other nearby project proponents.	Yes, to the extent that the APP and AIPP will be developed during Pre-construction.	Yes	Yes
		SOCIAL IMPACT			
S1	Social impacts, communication, engagement and monitoring	An overarching CSEP will be developed to guide delivery of engagement throughout all phases of the project, to ensure that: • accurate and accessible information about the project is provided • feedback from the community is encouraged • opportunities for input are provided • community members and stakeholders with the potential to be affected by construction activities are notified in a timely manner about the timing of activities and potential for impacts • enquiries and complaints are managed, and a timely response is provided for concerns raised. The aims and outcomes of the CSEP will be reviewed and monitored to ensure effectiveness and that the plan adapts to any specific and changing circumstances. Communications and engagement activities will include approaches and protocols to: • communicate with potentially affected residents, other community members, businesses and other key stakeholders to provide information about the project, and the likely nature, extent and duration of changes during construction • share information about the project with other regional stakeholders to assist with managing cumulative impacts on local and regional communities.	Yes	Yes	Yes
S2	Social impacts, communication	An enquiries and complaints management system will be developed in accordance with Transgrid's Complaints Management Policy, and outlined in the CSEP, and implemented during all phases of the project.	Yes	Yes	Yes

	and engagement and monitoring	The complaints management systems will be maintained throughout the construction period and for a minimum of 12months after construction finishes.			
S3	Workforce management, accommodation, and housing impacts	A Workforce Management Plan will be developed in consultation with Lithgow Council and service providers, including local and regional health and emergency services providers to manage the potential impacts of the non-resident construction workforce. The Plan will: • include an accommodation strategy with measures to reduce negative impacts of the project workforce, identification of preferred workforce accommodation options and a review accommodation supply and availability • include strategies to promote wellbeing of the workforce • outline a code of conduct for workers, policies relating to antisocial behaviour • identify health and wellbeing service needs of the temporary construction workforce, including medical, allied health and wellbeing services • outline information to the workforce on community services, recreation facilities, events, tourism activities and how to access health services • consider the cumulative accommodation impacts associated with other major projects in the area • include a program to monitor and review the effectiveness of the Plan.	Yes	Yes	No
S4	Local employment and training opportunities	Options for prioritising the employment of local workers for the construction phase will be investigated. This will include consideration of requirements for: • recruitment, skills and training measures, including identification of skills and qualifications required, and training targets • how the contractor will work with regional stakeholders to upskill local residents, including Indigenous and culturally diverse communities.	Yes	Yes	No
S5	Local employment and training opportunities	A Local Industry Participation Plan and an Aboriginal Participation Plan have been developed and will be implemented to ensure opportunities for local, regional and Indigenous businesses to participate in the project's supply chain. Implementation of the plans will include: • a process for local businesses to source information about supply opportunities for the project • host business information evenings • maintain a local supply chain register • step appropriate targets for local and Indigenous business procurement.	Yes	Yes	No
S6	Community benefits - local and regional stakeholders	Transgrid will continue to promote and engage with the community, interest groups and Lithgow City Council during all stages of the project to identify methods and opportunities to maximise community benefits and enhancements to leave a lasting legacy in the area.	Yes	Yes	Yes
		AIR QUALITY			

AQ1	Dust generation	A construction dust control protocol will be prepared and implemented as part of the CEMP and SWMP that details management measures, a method for recording dust complaints, and monitoring the effectiveness of controls. The protocol will include: • locate dust generating activities away from sensitive receptors• dust suppression measures such as water sprays, water extension agents, soil stabilising polymers or other media on: - on unpaved work areas and tracks subject to traffic or wind - on spoil and aggregate stockpiles - during loading and unloading of dust generating materials. • provide adequate water supply on site for dust suppression • wind monitoring and forecasting using Bureau of Meteorology AWS forecasts, to identify conditions where winds are over 10 m/s and the additional controls required to reduce dust if observed to be leaving the site boundary • implement measures to minimise the tracking of dust generating material onto paved roads • minimising the extent of ground disturbance at any one time as far as practicable, such as planning and scheduling vegetation clearing and grubbing activities to minimise areas of open and exposed soil • disturbed land will be stabilised as soon as practicable after completion of construction works and will also include: - construction benches, where not in riparian zones, to be left in a stable, weed free condition - brake and winch sites to be restored to previous condition - access tracks not required for operation to be returned to previous condition unless otherwise agreed with the relevant landowner - disturbed areas in riparian zones to be rehabilitated to ensure bank stability and minimise ecological impacts in accordance with a Rehabilitation Management Plan. • stockpile management to minimising the amount of material stockpiled, protecting stockpiles from wind erosion, and positioning stockpiles as far as practicable from nearby receptors • covering of transport loads of spoil, earthwork materials, waste and other loose materials when leaving the site to prevent escape of materials during transport. • The CEMP will also include a routine review of project activities against schedule 1 of the POEO Act to ensure an EPL is obtained before project activities exceed thresholds.	Yes, to the extent that the CEMP and SWMP will be developed during Pre-construction. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	Yes
AQ2	Amenity impacts	Visual monitoring will be undertaken. Where visible dust or wind-blown rubbish is observed leaving the site boundary towards sensitive receptors with the potential to result in amenity impacts, the dust generating construction activity will be modified or stopped until the hazard is reduced to an acceptable level, where practicable and appropriate, to minimise amenity impacts.	Yes	Yes	Yes
AQ3	Exhaust emissions	Plant, vehicles and equipment will be maintained in good condition in accordance with manufacturer's specifications. Plant, vehicles and equipment will be turned off when not in use.	Yes	Yes	Yes
AQ4	Greenhouse gas emissions	Approaches to reduce GHG emissions in line with Transgrid's Science Based Targets initiative (SBTi) GHG emission reduction targets during construction will be implemented such as: • employing efficient construction methods and reuse of materials, where possible • using local suppliers as much as possible to reduce transport emissions • using high efficiency diesel, where possible • avoiding and minimising vegetation clearance as much as possible.	Yes	Yes	Yes
AQ5	Greenhouse gas emissions	Measures to minimise/substitute fuel consumption during construction include: • using fuel efficient equipment rated for high fuel efficiency • equipment and site vehicles onsite will be regularly serviced, and energy efficient vehicles or equipment will be selected where available • optimise equipment use. Equipment and site vehicles must be switched off when not in constant use and not left idling and scheduling works to minimise machine operation • use of renewable energy such as battery power lighting and solar panels for site power and use of biofuels where possible.	Yes	Yes	Yes

AQ6	Greenhouse gas emissions	Measures to minimise earthworks and re-use considerations include: • spoil from drilling will be re-used as backfill if uncontaminated • excavated material from foundations will be re-used for landscape fill • planning and management of drill spoil including stockpile segregation for re-use or disposal • use of excavated material for access track formation.	Yes	Yes	Yes
		WASTE			
WM1	Construction Waste	A Waste Management Plan (WMP) will be prepared and implemented. The WMP will outline processes, responsibilities, and measures to manage waste and resource use: • in line with circular economy principles and the waste hierarchy contained in the Waste Avoidance and Resource Recovery Act 2001 • in compliance with the EPA's Waste Classification Guidelines, Resource Recovery Orders and other statutory requirements • in consultation with Lithgow City Council and waste receivers to confirm receipt of project waste types and volumes, and to consider cumulative impacts from multiple construction projects proposing to utilise Council's waste facilities • include identification of disposal location based on the types and quantities of waste generated • include systems to sort, track and record the actual types and quantities of waste generated including contaminated waste, a stockpile register, waste re-used, recycled and transported for offsite disposal • include portable amenity facilities to store wastewater from construction compounds and disposal to licenced facilities by a licensed contractor • include record keeping for all offsite waste disposal (where required) and for the importation of materials, such as engineering fill and ENM or VENM • include measures for separating waste based on classification of management options, such as colour coded bins • include routine inspection and visual monitoring of waste management activities, such as ensuring waste receptacles are covered and wind-blown rubbish is collected and disposed of appropriately.	Yes, to the extent that the WMP will be developed during Pre-construction. Appropriate controls to be included as part of any PCMW approval and endorsed by the ER.	Yes	Yes
		CUMULATIVE IMPACTS			
C1	Cumulative impacts	Coordination and engagement with proponents and/or construction contractors of relevant future projects will occur during detailed design and prior to construction to confirm timing of construction. Coordination and engagement will include: • providing regular construction program updates • identifying potential conflict and constraints points with other relevant future projects, eg proximity of work sites, or shared construction access routes and traffic management requirements, accommodation requirements • developing mitigation strategies in order to manage conflicts and constraints that may arise.	Yes	Yes	Yes