Dear Sir/Madam

SOUTH PINE TO GLADSTONE NO 2 TRANSMISSION LINE
SOUTH PINE TO GLADSTONE NO 1 TRANSMISSION LINE
WOOLOOGA SUBSTATION
Development Application for Material Change of Use
for Renewable Energy Facility (Solar Park)
Lot 35 on LX2129, Lots 236, 243 & 244 on LX496, Lots 1, 2 & 3 on RP183439
Easement C on RP186089 – Dealing No 602614711, Easement B on RP186088 –
Dealing No 602614710, Easements C & D on LX2224 – Dealing No 602033601,
Easement B on RP138692 – Dealing No 601347892, Easement B on RP138693 –
Dealing No 601347892, Easement A on RP125970 – Dealing No 601667871
Easement B on RP180948 – Dealing No 601854545, Easement A on RP180948 –
Dealing No 601854544, Easements A & B on RP189162 – Dealing No 602584467
& 602584466

Thank you for your application received 21 April 2017 regarding the above matter.
We have assessed your application Powerlink does not object to the proposal subject
to the following conditions:

Pursuant to the following item or items of Schedule 7 of the Sustainable Planning
Regulation 2009, Powerlink Queensland is an advice agency for the above
development application:

☒ Item 7, Table 3 of Schedule 7 of the Sustainable Planning Regulation 2009
(a material change of use in certain circumstances);

Powerlink Queensland acting as an advice agency under the Sustainable Planning
Act 2009 provides its response to the above matter.

Yours sincerely

Brandon Kingwill
MANAGER PROPERTY

Enquiries: Frances Jennings
Enclosures:- Annexure "A"

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Powerlink Queensland is the registered business name of the
Queensland Electricity Transmission Corporation Limited
ARN 959 466 757
ADVICE AGENCY’S RESPONSE

Sections 291 and 292
of the Sustainable Planning Act 2009

RESPONSE TO DEVELOPMENT APPLICATION

Powerlink Queensland, acting as an advice agency under the Sustainable Planning Act 2009 provides its revised response to the above application.

The assessment manager is to treat the response as a properly made submission.

The advice agency’s response is that:

☐ this application should be refused; or

☒ this application should be approved subject to the following conditions:

1. Compliance with the terms and conditions of the easement dealing no. shown in the heading of this letter.

2. Compliance with the generic requirements in respect to proposed works in the vicinity of Powerlink Queensland infrastructure as detailed in the enclosed Annexure “A”.

3. Any variation to the proposal shall require resubmission for assessment and approval (or otherwise) by Powerlink Queensland.

4. This advice is valid for a period of 2 years from the date of this response, should the development not be initiated within that period, the applicant should resubmit the application for re-consideration.

5. This response does not constitute an approval to commence any works within the easement. Prior written approval is required from Powerlink Queensland before any work is undertaken within the easement areas. All works on easement (including but not limited to earthworks, drainage and detention basins; road construction; underground and overhead service installation) require detailed submissions, assessments and consent (or otherwise) by Powerlink.

6. Compliance with the Electrical Safety Act 2002 including any Code of Practice under the Act and the Electrical Safety Regulation 2013 including any safety exclusion zones defined in the Regulation.

In respect to this application the exclusion zone for untrained persons and for operating plant operated by untrained persons is three (3) meters from the 132 000-volt wires and six (6) meters from the 275 000-volt wires and exposed electrical parts.

Should any doubt exist in maintaining the prescribed clearance to the conductors and electrical infrastructure, then the applicant is obliged under this Act to seek advice from Powerlink.
ANNEXURE A – GENERIC REQUIREMENTS

The conditions contained in this Annexure have been compiled to assist persons (the applicant) intending to undertake work within the vicinity of high-voltage electrical installations and infrastructure owned or operated by Powerlink. The conditions are supplementary to the provisions of the Electrical Safety Act 2002, Electrical Safety Regulation 2013 and the Terms and Conditions of Registered Easements and other forms of Occupational Agreements hereinafter collectively referred to as the "Easement". Where any inconsistency exists between this Annexure and the Easement, the Easement shall take precedence.

1. POWERLINK INFRASTRUCTURE
   You may not do any act or thing which jeopardises the foundations, ground anchorages, supports, towers or poles, including (without limitation) inundate or place, excavate or remove any soil, sand or gravel within a distance of twenty (20) metres surrounding the base of any tower, pole, foundation, ground anchorage or support.

2. STRUCTURES
   No structures should be placed within twenty (20) metres of any part of a tower or structure foundation or within 5m of the conductor shadow area. Any structures on the easement require prior written consent from Powerlink.

3. EXCLUSION ZONES
   Exclusion zones for operating plant are defined in Schedule 2 of the Electrical Safety Regulation 2013 for Untrained Persons. All Powerlink infrastructure should be regarded as "electrically live" and therefore potentially dangerous at all times.

   In particular your attention is drawn to Schedule 2 of the Electrical Safety Regulation 2013 which defines exclusion zones for untrained persons in charge of operating plant or equipment in the vicinity of electrical facilities. If any doubt exists in meeting the prescribed clearance distances from the conductors, the applicant is obliged under this Act to seek advice from Powerlink.

4. ACCESS AND EGRESS
   Powerlink shall at all times retain the right to unobstructed access to and egress from its infrastructure. Typically, access shall be by 4WD vehicle.

5. APPROVALS (ADDITIONAL)
   Powerlink's consent to the proposal does not relieve the applicant from obtaining statutory, landowner or shire/local authority approvals.

6. MACHINERY
   All mechanical equipment proposed for use within the easement must not infringe the exclusion zones prescribed in Schedule 2 of the Electrical Safety Regulation 2013. All operators of machinery, plant or equipment within the easement must be made aware of the presence of live high-voltage overhead wires. It is recommended that all persons entering the Easement be advised of the presence of the conductors as part of on site workplace safety inductions. The use of warning signs is also recommended.
7. EASEMENTS
All terms and conditions of the easement are to be observed. Note that the easement takes precedence over all subsequent registered easement documents. Copies of the easement together with the plan of the Easement can be purchased from the Department of Environment & Resource Management.

8. EXPENDITURE AND COST RECOVERY
Should Powerlink incur costs as a result of the applicant's proposal, all costs shall be recovered from the applicant.

Where Powerlink expects such costs to be in excess of $10 000.00, advanced payments may be requested.

9. EXPLOSIVES
Blasting within the vicinity (500 metres) of Powerlink infrastructure must comply with AS 2187. Proposed blasting within 100 metres of Powerlink infrastructure must be referred to Powerlink for a detailed assessment.

10. BURNING OFF OR THE LIGHTING OF FIRES
We strongly recommend that fires not be lit or permitted to burn within the transmission line corridor and in the vicinity of any electrical infrastructure placed on the land. Due to safety risks Powerlink’s written approval should be sort.

11. GROUND LEVEL VARIATIONS

Overhead Conductors
Changes in ground level must not reduce statutory ground to conductor clearance distances as prescribed by the Electrical Safety Act 2002 and the Electrical Safety Regulation 2013.

Underground Cables
Any change to the ground level above installed underground cable is not permitted without express written agreement of Powerlink.

12. VEGETATION
Vegetation planted within an easement must not exceed 3.5 metres in height when fully matured. Powerlink reserves the right to remove vegetation to ensure the safe operation of the transmission line and, where necessary, to maintain access to infrastructure.

13. INDEMNITY

Any use of the Easement by the applicant in a way which is not permitted under the easement and which is not strictly in accordance with Powerlink's prior written approval is an unauthorised use. Powerlink is not liable for personal injury or death or for property loss or damage resulting from unauthorized use. If other parties make damage claims against Powerlink as a result of unauthorized use then Powerlink reserves the right to recover those damages from the applicant.
14. INTERFERENCE

The applicant's attention is drawn to s.230 of the Electricity Act 1994 (the “Act”), which provides that a person must not wilfully, and unlawfully interfere with an electricity entity’s works. “Works” are defined in s.12 (1) of the Act. The maximum penalty for breach of s.230 of the Act is a fine equal to 40 penalty units or up to 6 months imprisonment.

15. REMEDIAL ACTION

Should remedial action be necessary by Powerlink as a result of the proposal, the applicant will be liable for all costs incurred.

16. OWNERS USE OF LAND

The owner may use the easement land for any lawful purpose consistent with the terms of the registered easement; the conditions contained herein, the Electrical Safety Act 2002 and the Electrical Safety Regulation 2013.

17. ELECTRIC AND MAGNETIC FIELDS

Electric and Magnetic Fields (EMF) occur everywhere electricity is used (e.g. in homes and offices) as well as where electricity is transported (electricity networks).

Powerlink recognises that there is community interest about Electric and Magnetic Fields. We rely on expert advice on this matter from recognised health authorities in Australia and around the world. In Australia, the Federal Government agency charged with responsibility for regulation of EMFs is the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA). ARPANSA’s Fact Sheet – Magnetic and Electric Fields from Power Lines, concludes:

"On balance, the scientific evidence does not indicate that exposure to 50Hz EMF's found around the home, the office or near powerlines is a hazard to human health."

Whilst there is no scientifically proven causal link between EMF and human health, Powerlink nevertheless follows an approach of “prudent avoidance” in the design and siting of new powerlines. This includes seeking to locate new powerline easements away from houses, schools and other buildings, where it is practical to do so and the added cost is modest.

The level of EMF decreases rapidly with distance from the source. EMF readings at the edge of a typical Powerlink easement are generally similar to those encountered by people in their daily activities at home or at work. And in the case of most Powerlink lines, at about 100 metres from the line, the EMF level is so small that it cannot be measured.

Powerlink is a member of the ENA’s EMF Committee that monitors and compiles up-to-date information about EMF on behalf of all electricity network businesses in Australia. This includes subscribing to an international monitoring service that keeps the industry informed about any new developments regarding EMF such as new research studies, literature and research reviews, publications, and conferences.

We encourage community members with an interest in EMF to visit ARPANSA’s website: [www.arpansa.gov.au](http://www.arpansa.gov.au) Information on EMF is also available on the ENA’s website: [www.ena.asn.au](http://www.ena.asn.au)