Public Lighting – Ownership & Approval Process

Published: May 2017

SA Power Networks

www.sapowernetworks.com.au
Revision Notice:

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<th>Date</th>
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<th>Author</th>
<th>Authorised</th>
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<tr>
<td>25 February 2014</td>
<td>• Scheduled review; minor changes only</td>
<td>F. Hall</td>
<td>J. Ali</td>
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<tr>
<td>28 October 2016</td>
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<td>A. Pradhan</td>
<td>J. Ali</td>
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<td></td>
<td>• Details of SA Power Networks luminaires moved to TS101</td>
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<td>• Drawing standards removed, refer TS099</td>
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<td>A. Pradhan</td>
<td>J. Ali</td>
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<tr>
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<td>• Updated Contacts Details of Customer Solution Area Managers in Section 5.</td>
<td>A. Pradhan</td>
<td>J. Ali</td>
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SA Power Networks:
SA Power Networks, ABN 13 332 330 749, a partnership of:
Spark Infrastructure SA (No.1) Pty Ltd, ABN 54 091 142 380
Spark Infrastructure SA (No.2) Pty Ltd, ABN 19 091 143 038
Spark Infrastructure SA (No.3) Pty Ltd, ABN 50 091 142 362
each incorporated in Australia
CKI Utilities Development Limited, ABN 65 090 718 880
PAI Utilities Development Limited, ABN 82 090 718 951
each incorporated in The Bahamas
1 Anzac Highway, Keswick, South Australia, 5035.

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1. **Introduction**

This document provides an overview of the SA Power Networks requirements for a public lighting extension or upgrade that will be connected to SA Power Networks distribution network.

More information on design of public lighting proposals can be found in [TS 101: Public Lighting – Design and Installation](#).

2. **Application Requirements**

For public lighting which is to be connected to SA Power Networks distribution network, authorisation is required by SA Power Networks. A detailed flow chart highlighting the steps and requirements for a public lighting application to SA Power Networks is shown in Appendix A. Details of the specific steps are shown below.

2.1 **Public Lighting Design Information Requirements**

Certain information is required by SA Power Networks to evaluate a public lighting project, regardless of whether the company to be utilised for the design is SA Power Networks or an external company. The applicant must supply the following:

- The design to be signed off by the designer as compliant to the relevant road category. Refer [TS 101: Public Lighting- Design and Installation](#), for more details
- The tariffs applicable to the proposed design. Refer Section 3 for details of the available tariffs
- The completed ‘Designer Authorisation Form’. Refer Appendix B
- The completed ‘Council Authorisation Form’ signed by the relevant authority (eg Council, Department of Planning, Transport and Infrastructure (DPTI)). Refer Appendix C
- Where required, a registered easement is to be provided. The easements shown on the design shall reflect the easements that have been negotiated with, and agreed to, by property owners. Refer to [TS102: Easement Standard for Distribution Networks](#)

2.2 **Utilising SA Power Networks as the Designer**

SA Power Networks is able to evaluate a public lighting project regardless of whether the company to be utilised for the design is SA Power Networks or an external designer. This will give the applicant the ability to tender for a project without undertaking the full costs of developing a public lighting design. The applicant will need to supply SA Power Networks Public Lighting Group the following:

- The drawing showing the layout of area requiring public lighting
- The completed ‘Council Authorisation Form’ signed by the relevant authority (eg Council, Department of Planning, Transport and Infrastructure (DPTI)). Refer Appendix C
- Details of the specific luminaire types and wattages
- Fee payable for the administration and evaluation of the public lighting proposal

The Public Lighting Group will provide concept drawings showing the number of columns and their approximate position, luminaire types and estimated installation cost.

When the Public Lighting Group is selected as the designer, they will produce a design that meets the requirements set out in [TS 101: Public Lighting- Design and Installation](#) and the specific requirements of AS/NZS 1158.
2.3 Utilising SA Power Networks as the Installer

The certified public lighting design is to be submitted to SA Power Lighting Solutions Group for evaluation.

The evaluation will not be a guarantee or warranty that the installation can be constructed to the SA Power Networks standards and conventions or that the design complies with the necessary Standards and Acts. This responsibility rests with the designer.

If requested, the SA Power Networks Lighting Solutions Group will review the design to ensure only that the Specification criteria and Technical Standards are included in the design and a charge will apply where appropriate.

The SA Power Networks Lighting Solutions Group shall be provided with copies of all approvals for the installation of the asset with the design. This may include Council and, if applicable, Department of Planning, Transport and Infrastructure (DPTI) agreements to the following:

- The design for any public lighting change or installation. Refer to TS101: Public Lighting
- The tariffs applicable to the proposed design. The SA Power Networks form is to be used for agreement of the design and tariff. Refer to Appendices B & C
- Where required, a registered easement is to be provided. The easements shown on the design shall reflect the easements that have been negotiated with, and agreed to, by property owners. Refer to TS102: Easement Standard for Distribution Networks

SA Power Networks will ensure all required documents are in place and the design meets specification requirements prior to issuing an Offer Letter for the construction of the public lighting proposal. Designs that do not meet specification requirements must be resubmitted and a specification re-compliance charge may be issued.

The SA Power Networks Lighting Solutions Group will prepare and return an offer for the installation of the public lighting within 20 days or by a mutually agreed time.

Please contact the SA Power Networks Lighting Solutions Group on phone (08) 8292 0425 or via email: roadlighting@sapowernetworks.com.au.

3. Public Lighting - Tariffs Structure

This section provides applicants with the various options that SA Power Networks offers when considering public road lighting. The options from SA Power Networks standard range can be utilised in either (1) New underground land developments or (2) Upgrading of existing road lighting systems where either overhead or underground mains exist.

Where a developer has installed a standard public light there will be a standard public light rebate applicable to each arrangement.

The road lighting application can be as follows:

1. **Category “P” installations:**
   - (a) Residential land developments
   - (b) Existing local streets and collector roads

2. **Category “V” installations:**
   - (a) Major traffic routes
   - (b) Industrial / Commercial land divisions
   - (c) Traffic control devices, such as roundabouts, medians, splitter islands, protuberances, etc.
3.1 LED Tariff Structure

The three tariffs applicable to LED lights on the SA Power Networks infrastructure are:

- SA Power Networks LED Tariff (SA Power Networks Funded - LEDs)
- TFI LED Tariff (Transferred Lighting Infrastructure - LEDs)
  ie Gifted / Vested luminaire with conditions
- PLC LED Tariff (Public Lighting Customer Funded - LEDs)
  ie Customer funded upgrade with conditions

3.1.1 SAPN LED Tariff (SA Power Networks Funded - LEDs)

The ‘SAPN LED Tariff’ applies where SA Power Networks funds a luminaire upgrade or new installation. Volume upgrades are subject to SA Power Networks’ funding availability or approval.

Under the SAPN LED Tariff, SA Power Networks will fund the luminaire upgrade, and will operate and maintain, repair and / or replace the luminaire and its supporting infrastructure during the term of the agreement.

3.1.2 TFI LED Tariff (Transferred Lighting Infrastructure - LEDs)

The ‘TFI LED Tariff’ applies where public lighting infrastructure is transferred (‘Gifted’ or ‘Vested’) to SA Power Networks. It is also available to customers who wish to fund the initial cost of a luminaire upgrade or new installation, but want SA Power Networks to be responsible for luminaire replacements.

Under the TFI LED Tariff, SA Power Networks will operate and maintain, repair and/or replace the LEDs and its supporting infrastructure during the term of the agreement.

3.1.3 PLC LED Tariff (Public Lighting Customer Funded - LEDs)

The ‘PLC LED Tariff’ applies where the customer funds the cost of a luminaire upgrade or new installation, and remains responsible for post warranty period luminaire replacements. SA Power Networks would procure and install the new luminaire, or install a new luminaire supplied by the Customer.

Under the PLC LED Tariff, SA Power Networks will operate, maintain, and repair the luminaire, and repair and/or replace its supporting infrastructure, during the term of the agreement.

3.1.4 CLER LED Tariff

The CLER LED tariff applies where SA Power Networks maintains the customer’s luminaire on the customer’s infrastructure.

Under the CLER LED Tariff, SA Power Networks will operate, maintain, and repair the customer’s luminaire during the term of the agreement.

These services will be provided subject to a standard service level agreement. Service levels over and above those set out in the service level agreement would be separately agreed and priced.

For further details, please refer to ‘Network Tariffs & Negotiated Services – Manual No. 18’ which is located on SA Power Networks website.

3.2 Non-LED Tariff Structure

3.2.1 SLUoS Tariff (Street Lighting Use of System - Non LEDs)

For ‘Street Light Use of System (SLUoS)’, SA Power Networks will maintain and replace all necessary SA Power Networks standard components, once the installation is vested to SA Power Networks.
3.2.2 **CLER Tariff (Customer Lantern Equipment Rate - Non LEDs)**

The public lighting installation is owned by Council / DPTI and has a reduced tariff rate. Maintenance and replacement of public lighting equipment is the responsibility of Council / DPTI.

SA Power Networks will undertake lamp replacements only; however, some conditions apply.

3.3 **Energy Only Tariff (Supply Connection Point Only)**

The Energy Only tariff applies where SA Power Networks provides supply connection point only. SA Power Networks has no responsibility for any installation beyond the point of connection.

4. **New Luminaire/Column - Request Procedure**

When a non SA Power Networks catalogued luminaire or column is proposed, the requestor is required to submit, at the initial planning stage, the following:

1. Identify the project where the luminaires/column are to be used
2. Indicate the timing of this project
3. Advise the projected number of luminaires required in the project
4. Provide local Government’s/DPTI’s “in principle” acceptance of proposed luminaires

SA Power Networks will provide initial feedback and the evaluation fee that will be charged for the assessment of the non-standard luminaire or column.

4.1 **SA Power Networks Owned and Maintained Public Lighting**

If a non-standard luminaire or column is to be owned and maintained by SA Power Networks, the evaluation will occur in the following 4 stages:

1. Suitability Evaluation Report, including AEMO load tables listing
2. Technical Evaluation
3. Acceptance of Proposed Luminaire
4. SLUoS or LED Tariff Arrangements

4.1.1 **Suitability Evaluation Report**

To proceed with a suitability evaluation-report the requestor is required to make a written submission to the Manager Networks Standards & Performance (MNSP).

The request is to include the following information:

1. Suitability as a replacement of existing or as a new luminaire
2. Identify project (timing)
3. Number of luminaires
4. Columns or Stobie pole mounting (underground or overhead)
5. Roadway classification
6. Manufacturer’s specification of luminaire
7. Final production sample of proposed luminaire for evaluation (3-4 weeks)
8. Evidence of compliance with relevant Standards (including AS/NZS1158)
9. P.E. cell to comply with the SA Power Networks specification for NEMA or D2 type
10. Mounting needs to comply with the SA Power Networks requirements
11. Fusing arrangements as per the SA Power Networks requirements as follows:
   - A fused, screw terminal block to accommodate a 6.3mm diameter x 25.4mm HRC fuse cartridge to BS1362
12. Australian supplier’s details
13. Cost from supplier per 1000
14. Availability including spare parts availability

SA Power Networks will provide a Suitability Evaluation Report within 2 months from the time of receipt of all above information.

4.1.2 Technical Evaluation

To proceed with a technical evaluation report, the requestor is required to make a written submission to the Manager Networks Standards & Performance (MNSP).

The request is to include the following information:

1. Satisfactory / Approved Suitability Evaluation Report
2. Final production sample of proposed luminaire
3. Spacing tables for luminaire mounted at the following heights:
   a) 4.5m - post top
   b) 6.5m - 5° up cast angle
   c) 7.5m - 5° up cast angle
   d) 9.0m - 5° up cast angle
   e) 10.5m - 5° up cast angle
   f) or as specified by SA Power Networks
4. Maintenance factors
5. Life expectancy of luminaire and all components
6. History of existing installations and referees to support performance claims
7. Manufacturer’s specifications of lamp, control gear and P.E. cell
8. Copy of NATA accredited independent testing laboratory’s report

The technical evaluation is to be finalised within 3 months from the time of receipt of the above information.

4.1.3 Suitability of Proposed Luminaire

Following a satisfactory technical evaluation SA Power Networks will provide a “Letter of Acceptance” for connection to the SA Power Networks network of the proposed luminaire. Subject to operational requirements, SA Power Networks may or may not choose to purchase this luminaire as a supply item, subject to commercial or other considerations.

4.1.4 SLUoS Tariff Arrangements

After approval of a new Luminaire the costs are assessed to determine if they fall within the existing tariff for the standard range of lamps or if a special tariff is needed for the new Luminaire and lamp based on:

1. Purchase cost of the fittings.
2. Life of the fittings.
3. Maintenance costs taking into account frequency of lamp changes, cost of spare parts, PE cell / control gear life etc.
4. Cost of bulk lamp changes and frequency of random failures in the years between bulk changes.

If the SLUoS tariff is considered unacceptable by customers, then the luminaire may be considered for ‘CLER only’ acceptance.

If the luminaire has a new lamp which neither SA Power Networks, the supplier or customer can be sure of component life, frequency of lamp changes or future costs of developing technology, then an interim tariff (as an individually negotiated service) may be set up.

The negotiations in respect of such services are conducted under the arrangements set out in the SA Power Networks Negotiating Framework, which is approved by the Australian Energy Regulator and available for reference on the SA Power Networks website.

For new lamps the energy used by the luminaire (ie lamp and control gear) is determined and this information supplied to the Retailer for setting of energy tariffs. However, the information pertaining to energy use needs to be published on the AEMO Load Table. This needs to be arranged by the customer or the manufacturer.

4.2 SA Power Networks Maintained Public Lighting

If a non-standard luminaire or column is to be only maintained by SA Power Networks, the evaluation will be processed in the following three stages:

1. Suitability Evaluation Report, including AEMO load tables listing
2. Acceptance of Proposed Luminaire
3. CLER Tariff Arrangements

SA Power Networks will provide initial feedback and the evaluation fee that will be charged for the assessment of the non-standard luminaire or column.

4.2.1 Suitability Evaluation Report

To proceed with a suitability evaluation-report the requestor is required to make a written submission to the Manager Networks Standards & Performance (MNSP).

The request is to include the following information:

1. Identify Project (timing)
2. Road classification
3. Manufacturer’s specification of luminaire and lamp
4. Final production sample of proposed luminaire for evaluation (3-4 weeks)
5. Evidence of compliance with relevant Standards (including AS/NZS1158 and AS3771)
6. The SA Power Networks Liaison ‘Network Standards and Performance Group’
7. The SA Power Networks Notification of Acceptance and likely tariff
8. Maintenance factors
9. Life expectancy of lamp and P.E. cell

SA Power Networks will provide a Suitability Evaluation Report within 2 months from the time of receipt of all above information.
4.2.2 Acceptance of Proposed Luminaire

Following a satisfactory suitability evaluation SA Power Networks will provide a “Letter of acceptance for connection to the SA Power Networks network” of the proposed luminaire.

**Note:** SA Power Networks will only accept luminaires which utilise the SA Power Networks standard lamps that are held on stock for CLER tariff scheme.

Refer to **TS101**: - Public Lighting – Design and Installation for the list of approved lamps.

4.2.3 CLER Tariff Arrangements

After approval of a new luminaire and lamp for CLER tariff scheme, the maintenance costs taking into account frequency of lamp changes, cost of bulk lamp changes and frequency of random failures in the years between bulk changes are assessed to determine if they fall within the existing tariff for the standard range of lamps or if a special tariff is needed for the new luminaire and lamp.

Lamps not stocked by SA Power Networks shall be provided free by the customer on request.

If the maintenance requirements of a new lamp are unknown, then an interim tariff may be negotiated with the customer as an individually negotiated service.

The negotiations in respect to such services are conducted under the arrangements set out in the SA Power Networks Negotiating Framework, which is approved by the Australian Energy Regulator and available for reference on the SA Power Networks website.

If the new luminaire has a lamp with an existing tariff, then that existing tariff for the lamp applies.

For new lamps the energy used by the luminaire (i.e. lamp and control gear) is determined and this information supplied to the Retailer for setting of energy tariffs. This should also be published on the AEMO Load Table. This is the responsibility of the customer or the manufacturer.
5. Who You Should Talk To?

For new or modified lighting designs, please contact the SA Power Networks Lighting Solutions Group on (08) 8292 0425 or via email: roadlighting@sapowernetworks.com.au

| The SA Power Networks Customer Solutions Managers: |  |
|---|---|---|
| Area | Phone (08) | Mobile |
| Country North (Port Lincoln/Clare) | 8842 6942 | 0428 100 375 |
| Metro North (Elizabeth) | 8282 1547 | 0419 183 760 |
| Adelaide (Keswick) | 8404 5407 | 0403 582 220 |
| Hills & Murray (Mount Barker) | 8391 7702 | 0428 100 030 |
| Metro South (St Marys) | 8275 0902 | 0400 661 805 |
| South East (Mount Gambier) | 8724 1617 | 0403 582 274 |

For Project Specific Approval / Enquiries:

The relevant SA Power Networks Project Manager shall provide assistance, for any specific requirement(s) that does not comply and / or not addressed within this document, by further acquiring written approval from the SA Power Networks Manager Network Standards and Performance (MNSP).

We welcome comments or suggestions for improvements to our documents and encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. We also encourage users to share their experiences of applying these requirements.

Contact ‘Standards and Equipment Team’ via our Hotline (08) 8404 4200 and / or send email to: networkstandards@sapowernetworks.com.au.
Appendices

Appendix A: Flow Chart for Public Lighting Request Procedure

FLOW CHART: Application process for SA Power Networks consideration of public lighting requests

Council/DPTI or supplier & SA Power Networks request placing on AEMO load table

Is proposed luminaire on AEMO load table?

N

Y

Preferred tariff/ownership arrangement to be decided by Council/DPTI

Public Lighting Proposal by Developer/Council/DPTI (TS101 & NICC 401)

Approved SA Power Networks LED / SLUoS Public Lighting Arrangement

Non-approved SA Power Networks LED / SLUoS Public Lighting Arrangement

SA Power Networks LED / SLUoS Approval Process

Project Information

Luminaire/Column Information

Council / DPTI or supplier & SA Power Networks request placing on AEMO load table

CLER Tariff

Approved SA Power Networks CLER Public Lighting Arrangement

Non-approved SA Power Networks CLER Public Lighting Arrangement

SA Power Networks CLER Approval Process

Product Information

Install

Install

Install

Assets maintained and/or replaced by SA Power Networks are
- Columns
- LED / Lamps
- Wiring

Assets maintained and/or replaced by Council/DPTI are
- Columns
- Lamps
- Wiring

Assets maintained and/or replaced by Council/DPTI & Customer are
- Columns
- Lamps
- Wiring

Arrange tariff with SA Power Networks and Energy retailer

Arrange metered supply with SA Power Networks and Energy retailer

Approved SA Power Networks form Public Lighting Agreement Document

Approval of SA Power Networks form Public Lighting Agreement Document OR SA Power Networks quotation for works

Install

Install

Install

Approved

Declined

Approved

Declined

Approved

Declined

Approved

Declined

Approved

Declined

Approved

Declined

Approved

Declined

Approved

Declined

Approved

Declined

Approved

Declined

Energy Only Tariff

Metered Supply (AS/NZS 3000)
Appendix B: Designer Authorisation Form

This is an agreement form for the ‘Designer’, abiding relevant designer to comply with public lighting installation requirements stipulated within relevant AS/NZS standards, SA Power Networks and associated authorities.

<table>
<thead>
<tr>
<th>Public Lighting Design Details</th>
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<tbody>
<tr>
<td>Subdivision / Public Lighting Proposal Details:</td>
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<tr>
<td>SA Power Networks’ Project No:</td>
</tr>
<tr>
<td>Location:</td>
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</tbody>
</table>

<table>
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<tr>
<th>Public Lighting Category for Roads</th>
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<tbody>
<tr>
<td>Street Names: If all streets are the same category insert ‘All’</td>
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</table>

<table>
<thead>
<tr>
<th>SA Power Networks / Public Lighting Designer’s Details</th>
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</thead>
<tbody>
<tr>
<td>Company’s Name:</td>
</tr>
<tr>
<td>Designer’s Name:</td>
</tr>
<tr>
<td>Company’s Address:</td>
</tr>
<tr>
<td>SA Power Networks’ Drawing Reference No:</td>
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<tr>
<th>Does the submitted design satisfy AS/NZS 1158? Please circle ‘Yes’ or ‘No’.</th>
</tr>
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<tr>
<td>Yes</td>
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**Note:**
If No, a letter of indemnity can be supplied by the SA Power Networks Officer for execution by Council / Department of Planning, Transport and Infrastructure (DPTI). (Applicable only to public lighting not on SLUoS tariff.)

<table>
<thead>
<tr>
<th>Signature of Authorised Design Officer:</th>
<th>Date:</th>
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<tr>
<td>Authorised Design Officer’s Name:</td>
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**Notes:**

**Note:** Please fill in all details and forward email: roadlighting@sapowernetworks.com.au.
Appendix C: Council Authorisation Form

This is an agreement form for the ‘Council’, abiding relevant council to agree to meet SA Power Networks requirements in regards to lighting category, conditions, tariffs and electrical infrastructure works for council controlled locations, etc.

<table>
<thead>
<tr>
<th>Council Lighting Tariff Agreement</th>
<th>SA Power Networks Project No:</th>
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<tbody>
<tr>
<td><strong>SA Power Networks Public Lighting Tariff (Types)</strong></td>
<td><strong>Public Lighting Category (P, V or Other)</strong></td>
</tr>
<tr>
<td>SA Power Networks LED Tariff: (SA Power Networks Funded - LEDs)</td>
<td></td>
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<tr>
<td>TFI LED Tariff: (Transferred Lighting Infrastructure - LEDs)</td>
<td></td>
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<tr>
<td>PLC LED Tariff: (Public Lighting Customer Funded - LEDs)</td>
<td></td>
</tr>
<tr>
<td>CLER LED Tariff: (Customer Lantern Equipment Rate - LEDs)</td>
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</tr>
<tr>
<td>SLUoS Tariff: (Street Lighting Use of System) - Non LEDs</td>
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<tr>
<td>CLER Tariff: (Customer Lantern Equipment Rate - Non LEDs)</td>
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<tr>
<td>Energy Only Tariff: (Supply Connection Point Only)</td>
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<tr>
<td>Security or Flood Lighting: (SLUoS - Non LEDs)</td>
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<tr>
<td>Security or Flood Lighting: (CLER - Non LEDs)</td>
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<tr>
<td>Other Items: (Eg Long pipe bracket, CCTV)</td>
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</tbody>
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| Tariff Total | $ |

Notes:
1. Attach additional sheets, if space provided is not sufficient.
2. Provide details of non-standard arrangements, eg colours and additional fittings (eg bollards) which are not the responsibility of SA Power Networks.

Conditions Associated with Design and Installation of Public Lighting:
1. Refer to TS101: ‘Public Lighting Standard for Overhead and Underground Networks’ and please note that only luminaire types and light fittings listed in TS101 are permissible for use.
2. For CLER Tariff Lighting Schemes it is the responsibility of the Council / DPTI to ensure that a maintenance program is in place to ensure the luminaire satisfies the capacity requirements of AS/NZS 1158.
3. The commissioning of CLER Tariff Lighting Schemes is the responsibility of Council / DPTI and is detailed in TS101.
4. For standard SA Power Networks tariff lighting, the public lights will be commissioned by SA Power Networks at the time the subdivision is energised / when SA Power Networks scope of works is complete.
5. SA Power Networks will not be responsible for the deterioration of the powder coated surfaces on columns / luminaires.
6. Council / DPTI agree to the Terms and Conditions contained in Supply of Works Contract (1501) and is aware of the relevant Technical Standards and NICC series.

Council / DPTI:
Address:

Contact Name: Phone Number:
I agree to the lighting category, conditions, tariff details and electrical infrastructure design that has been submitted for this development / public lighting proposal.

Signature of Authorised Council / DPTI Officer: Date:

Name of Authorised Council / DPTI Officer:

Note: Please fill in all details and forward this form to email: roadlighting@sapowernetworks.com.au.
## Appendix D: Definitions

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
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</thead>
<tbody>
<tr>
<td>Applicant</td>
<td>The applicant is the person who has applied for a connection or extension. This may be a direct customer, developer, consultant or other third party.</td>
</tr>
<tr>
<td>CLER</td>
<td>Means the Customer Lantern Equipment Rate</td>
</tr>
<tr>
<td>Connection Point</td>
<td>Has the meaning given to that term in the current Electricity (General) Regulations, namely a connection point to a transmission or distribution network. For the purpose of this document connection point also has the same meaning as Point of Supply as defined in AS/NZS 3000.</td>
</tr>
<tr>
<td>Council</td>
<td>Means the local government authority for the site of the Development.</td>
</tr>
<tr>
<td>DPTI</td>
<td>Stands for the Department of Planning, Transport and Infrastructure.</td>
</tr>
<tr>
<td>Extension</td>
<td>Means works (outside the boundaries of the SA Power Networks' distribution network (as it existed before the construction of any new connection or extension assets)) requested by the customer in accordance with the Electricity (General) Regulations 2012.</td>
</tr>
<tr>
<td>LED</td>
<td>Means the ‘Light Emitting Diode’ Luminaire.</td>
</tr>
<tr>
<td>Project Manager</td>
<td>Means the SA Power Networks Project Manager, Network Project Officer, Network Service Officer, Customer Service Officer, Strategic Project Manager or any Officer/Supervisor who is ultimately responsible for the project management.</td>
</tr>
<tr>
<td>Shall or Must</td>
<td>Is to be understood as mandatory.</td>
</tr>
<tr>
<td>SLUoS</td>
<td>Stands for the Street Light Use of System. This is known as the standard SA Power Networks tariff.</td>
</tr>
<tr>
<td>Vested Asset</td>
<td>An asset that is constructed on behalf of the customer where ownership is transferred to SA Power Networks.</td>
</tr>
<tr>
<td>Works</td>
<td>Means the term Works as defined in the Works Agreement.</td>
</tr>
</tbody>
</table>
Appendix E: References

The following listed documents are for additional information. It is advisable to refer to the current publications before implementing them. Other documentation may be required on a project specific basis.

Please note: It’s your responsibility to ensure you have complied with all relevant standards and you have used the latest version.

South Australian Legislation:
- SA Electricity Act 1996
- Electricity (General) Regulations 2012

Essential Services Commission of South Australia (ESCOSA) Codes:
- SA Electricity Distribution Code (EDC)

Energy Networks Association (AUS) Publications:
- ENA NENS 03 - 2006 - National Guidelines for Safe Access to Electrical and Mechanical Apparatus
- ENA NENS 04 - 2006 - National Guidelines for Safe Approach Distances to Electrical and Mechanical Apparatus

The Office of Technical Regulator (OTR) Publications:
- Building Safely Near Powerlines Brochure
- Trees and Powerlines Brochure
- Working Safely Near Overhead Powerlines Brochure
- Building Safely Near Powerlines (and Identifying Powerlines)

The Departments of Planning, Transport and Infrastructure (DPTI):
- DPTI Notification Form
- Reinstatement Pavement Configuration
- Works on Roads by Other Organisations

Standards Australia Publications:
- AS/NZS 1158 Set - Lighting for Roads and Public Spaces Set
- AS/NZS 3000 - Electrical Installations (known as the AS/NZ Wiring Rules)
- AS/NZS 3017 - Electrical Installations - (LV Earthing System) Verification Guidelines
- AS/NZS 3019 - Electrical Installations - (LV Supply System) Periodic Verification
- AS 4026 - Electric Cables - For Underground Residential Distribution Systems
- AS 4282 - Control of the Obtrusive Effects of Outdoor Lighting
- AS 4506 - Metal Finishing – Thermoset Powder Coatings

SA Power Networks Documents:
- 3304 - Construction terms (non-contestable & contestable)
- Network information for Contractors and Customers
- Relevant E-Drawing Series
- Service and Installation Rules
- Technical Standards:
  - TS 085 - Civil and Electrical Works Standard for Underground Distribution Networks (up to & incl. 33 kV)
  - TS 100 - Electrical Design Standard for Underground Distribution Cable Networks (up to and inclu.33kV
  - TS 109 – Earthing of the Distribution Network