
Third Party Communications Cable Installations

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1 SCOPE

This Work Category Specification 72 (WCS 72) is a document outlining the service requirements for the assessing and management of Third-Party Communications Cables Installations on or within *Ergon Energy* and *Energex* Network Assets.

The transition point between Third Party Communications Cables underground to aerial installations on *Ergon Energy* and *Energex* Poles is 2900 mm above natural ground level.

1.1 General

- (a) The Work Category Specifications listed below outline specific types of Third-Party Communications Cables and are to be read as a part of and in conjunction with this principal Work Category Specification for the Services being provided:
 - (i) WCS 72.1 Third Party Underground Communications Cables.
 - (ii) WCS 72.2 Third Party Aerial Communications Cables.
- (b) As part of and in conjunction with this WCS72, read WCS133 for the general standards and conditions, where they are relevant to, and are incorporated into this category of work.
- (c) Standards and conditions of this WCS72 are to be taken as the definitive specified requirements for works under this WCS72, where they vary from that of WCS133.
- (d) For the avoidance of doubt, a breach of a general standard or condition contained in WCS133 is a breach of WCS72.

1.2 Application

- (a) The application of services includes, but is not limited to, the following functions:
 - (i) The installation, maintenance, and recovery of third-party communications cables on or within *Ergon Energy* and *Energex* conduits, pipes, pits, and substations (underground); and
 - (ii) Third party communications cable on or within *Ergon Energy* and *Energex* Poles (aerial).
- (b) The applications excluded from services being provided are:
 - (i) *Ergon Energy* and *Energex* owned overhead and underground Fibre Optic Cables.
 - (ii) No Fibre Optic Cables unless previously approved for existing installations or specifically agreed for new installations in writing from *Ergon Energy* and *Energex*.

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2 AMENDMENT RECORD

Versions 1-3 were previously available through an Energex legacy repository, which ECM has replaced. This updated version will be released as version 1.

Version	Date	Author
1	19 April 2022	Shea Barnes
Amendment Overview		
Updated to reflect dual branding across both networks, formatting network terminology, and various training requirements have also been updated to reflect new course codes with EsiTrain.		

3 AIMS & OBJECTIVES

The aims / objectives of this WCS72 Suite is to ensure:

- (i) Services are provided in a safe manner on or near to Network Assets
- (ii) Reliability of electricity supply and security and integrity of the *Ergon Energy* and *Energex* electricity network, including Network Assets, are maintained.
- (iii) Cable Installations on or within Network Assets cause minimum interference with *Ergon Energy* and *Energex* operations or works programs

The objectives of this Work Category Specification are to ensure:

- (i) The impact to the life span of *Ergon Energy* and *Energex* Network Assets and in build redundancy is minimized when third party cables are installed on or within *Ergon Energy* and *Energex* assets.
- (ii) The installation of third-party Communications Cables on or within *Ergon Energy* and *Energex* assets do not overtly interfere with *Ergon Energy* and *Energex* operations or works programs.

4 COMPETENCIES, TRAINING AND QUALIFICATIONS

The *Service Provider* must undertake training and assessment in accordance with all applicable Laws and the requirements set out in this Work Category Specification.

4.1 Operator Training

The *Service Provider* must, always, assume full responsibility for ensuring all staff (Operators and persons performing associated functions) are assessed as competent for the tasks to be undertaken.

All competency training must be under the authorisation of a Registered Training Organisation (RTO) with appropriate scope.

4.2 Licensing

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The *Service Provider* must hold all relevant Queensland legislative licence(s) to undertake this category of work and must ensure Operators and persons performing work are appropriately licensed for the activities being undertaken.

4.3 Plant or Equipment Operators

Operators of plant or equipment must hold appropriate licence(s) and / or Statement of Attainment; be initially trained, competent, and regularly reassessed in the particular design and operating characteristic of each item of plant or equipment.

4.4 Ergon Energy and Energex Competencies

Listed in Table 1, are the *Ergon Energy* and *Energex* competencies (or combinations thereof) that are the *Ergon Energy* and *Energex* nominated requirements to be held by Operators.

4.5 Third Party Installation Training

Ergon Energy and *Energex* poles and structures may have third party assets such as broadband and communications antennas installed on or adjacent to poles. Operators accessing these sites must be trained in pole accessing procedures where these third party assets are installed. Training learning outcomes includes:

- Broadband infrastructure learning outcomes.
- Identify broadband infrastructure installations and major components on several *Ergon Energy* and *Energex* distribution *Poles* from an on-site ground position and / or by broadband identification guidelines booklet and other illustrations.
- Determine safe working procedures in relation to various overhead work tasks to be performed on a variety of *Ergon Energy* and *Energex* distribution *Poles* which have broadband network installations.
- Demonstrate safe working procedures when performing overhead work on *Ergon Energy* and *Energex* distribution *poles* which have broadband network installations.
- Radio Frequency Radiation (RFR) Awareness.
- Explain the basic properties of and potential health issues associated with RFR.
- Identify the various types of RFR-emitting equipment that may be installed on or in the vicinity of *Ergon Energy* and *Energex* assets.
- Interpret signage associated with RFR-emitting equipment.
- State and demonstrate general familiarity with applicable regulations, standards and manuals pertaining to RFR-emitting equipment installations.
- State minimum approach distances for RFR-emitting equipment.
- Demonstrate familiarity with procedures for antenna de-energisation, isolation, and re-energisation.

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4.6 Training / Briefing Sessions

From time to time, the Service Provider and or Operators undertaking the Service(s) shall be required to attend additional training / briefing sessions.

Table 1 – Operator Competencies

Course Code	Competency Description	Operator Requirements
Operators hold the following competencies.		
AOILS E296 / 1583	Oil Spill Management (Note 1)	MO
AVIRO E295 / 1582	Environmental Awareness (Note 1)	R
Operators hold the following competencies when the relevant work activity is being undertaken.		
ACONN M292 / 1961	Connections to the Low Voltage Network (Note 3)	AR
ASOIL E298 / 1584	Sediment Control Awareness (Note 1)	MO
E297 / 1003	Biosecurity Awareness (Note 1)	MO
T0839 / 1013	Access Electrical Network Infrastructure for the Individual of Workgroup (IWG) in QLD (Note 2)	AR
M593 / 1353	Low Voltage Switching Operator (Note 5)	AR
T0840 / 1030	Access Electrical Network Infrastructure for the Recipient in QLD (Note 6)	AR
T0841 / 1017	Switching Operator's Assistant in QLD	AR
T0727 / 1692	Broadband Infrastructure Awareness	AR
T0911 / 1656	Introduction to Electrical Network Infrastructure for Authorised Persons (Note 4)	R
T0726 / 1691	Radiofrequency Radiation Awareness	AR
T0911 / 1656	Authorised Person (where required under, as defined in Electricity Safety Regulation 2013) Introduction to Electrical Network Infrastructure for Authorised Persons	R

Legend:

- R** Required.
- AR** As Required; subject to the work activity being undertaken and the operating environment.
- MO** A minimum of one person on *Worksite* holds this competency.

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- Note 1** *Service Providers* with their own environmental training system equivalent as a minimum to the *Ergon Energy* and *Energex* environmental training may train and assess their Operators as competent.
- Note 2** Operators must hold this “Individual of a Work Group” competency when required to sign onto a network switching access permit for *HV* circuit(s) isolated as per SAHV procedures.
- Note 3** This Testing Connections to LV Distribution Network competency is to be held by any Operator who performs part or all the Electrical Work and is responsible for bringing the Electrical Installation to a state of readiness for connection to a source of electricity.
- Note 4** This Introduction to Electrical Network Infrastructure competency is to provide *Service Provider* and Operators with an understanding of electrical distribution network and the associated hazards.
- Note 5** A minimum requirement of one Operator with Low Voltage Switching Operator Authorisation is to be always assisted by a competent assistant as defined in Manual 00301.
- Note 6** Operators must hold this “Access Electrical Network Infrastructure for the Recipient in QLD” competency when required to accept a network switching access permit.

4.7 Authorised Persons

- (a) The *Service Provider* is to ensure all Operators are Authorised Persons where required under, and as defined in, Electricity Safety Regulation 2013
- (b) Ensure no work is undertaken on any Wireless Installation components that are within the relevant statutory exclusion zones that apply for each individual Operators as an Authorised Person, including to energisable conductors and uninsulated electrical equipment (plant), for example:
 - (i) Public lighting supply circuits.
 - (ii) Column and Pole brackets / outreaches.
 - (iii) LV and HV energisable conductors and uninsulated electrical equipment (plant); and
 - (iv) External Party broadband network strandwire and / or cabling.

4.8 Required Accredited Service Provider Ratings

- (a) For Aerial Network Assets related works, *Service Providers* are to be an Accredited Service Provider (ASP) rated under and strictly comply with WCS133 and the following Work Category Specifications:
 - (i) Condition assessment / onsite inspection of Poles in accordance with WCS5.1
 - (ii) Electrical distribution network augmentation design in accordance with WCS47.4
 - (iii) Electricity network Make Ready Work on the relevant Overhead Assets in accordance with WCS25 and WCS31.
 - (iv) Aerial Cable Installation works in accordance with WCS72 and WCS72.2
- (b) For Underground Network Assets related works, *Service Providers* are to be ASP rated under and strictly comply with WCS133 and the following Work Category Specifications:
 - (i) Electricity network civil Make Ready Work on the relevant Underground Network Assets in accordance with WCS61.

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- (ii) Underground Cable Installation works in accordance with WCS72 and WCS72.1

4.9 Provision of Ergon Energy and Energex Assistance

- (a) *Ergon Energy* and *Energex* may agree to perform Make Ready Works and / or Cable Installation related works under this Work Category Specification WCS72 at the *Service Provider's* or Client's sole cost.
- (b) If requested by the *Service Provider* or Client, and at the *Service Provider's* or Client's sole cost; *Ergon Energy* and *Energex* may agree, subject to any relevant contractual agreement provisions and at its discretion; to:
 - (i) assist with Pole design.
 - (ii) supply new, modified or replacement Poles with required height and structural (strength) rating to accommodate *Ergon Energy* and *Energex*, other party, and Aerial Cable Installation attachments.
 - (iii) Manage the installation of Underground Cable Installations.
 - (iv) Manage switching and isolation of Ergon Energy and Energex network.
 - (v) Undertake Worksite construction and maintenance activities.

5 VEHICLES AND PLANT

Vehicles and plant used for the provision of Services must comply with Laws, be fit for purpose, serviced, and maintained and where required, comply with appropriate Australian Standards.

For vehicles and plant requirements, refer to WCS133, Section 5 – Vehicles and Plant, except for the following variation:

- (a) The *Service Provider* will not display any *Ergon Energy* and *Energex* logos on the vehicle(s) when not engaged in the activity of providing Services to or on behalf of *Ergon Energy* and *Energex*.

6 MATERIALS, TOOLS AND EQUIPMENT

6.1 General

- (a) For materials, tools, equipment requirements, refer to WCS133, Section 6 – Materials Tools and Equipment.
- (b) For materials, tools, equipment requirements specific to this category of work refer to the below included references and clauses.

6.2 Specialised Plant and Equipment

The *Service Provider* is to source all appropriate specialised plant and equipment to perform attachment, maintenance, and recovery of Cable Installations on and within all types of Network Assets.

6.3 Nominated Tools and Equipment

- (a) Table 2 specifies the nominated materials, tools and equipment required when providing Services under WCS72.

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- (b) The *Service Provider* is to source all appropriate specialised plant and equipment to perform attachment, maintenance, and recovery of Cable Installations on and within Network Assets.

Table 2– Materials, Tools and Equipment

Description	Supplier
Suitable range of trade tools and equipment for establishing and maintaining <i>Cable Installations</i> .	<i>Service Provider</i>
All required <i>RFR</i> safety and testing instruments and devices.	<i>Service Provider</i>
Low Voltage Proximity Testers *	<i>Service Provider</i>
*These items of equipment are required under WP1202 Specification, when bringing an electrical installation to a state of readiness for connection to a source of electricity.	

6.4 Consumables

The *Service Provider* and / or *Operator* is to supply all consumable materials required for the *Services* being provided.

The *Service Provider* must provide all consumables, including but not limited to motor fuels, lubricants, hacksaw blades, solvents, abrasives, and paint.

7 SAFETY

- (a) The *Service Provider* must develop their own safe system of work that:
- (i) complies with Laws of the Commonwealth of Australia and Queensland.
 - (ii) meets the requirements of Energy Queensland BMS 03385 – Safety Specification for Contracted Work; and
 - (iii) addresses the risks associated with this category of work.
- (b) Safe system of work documentation must be available to *Ergon Energy* and *Energex* on request; at each Worksite where *Services* are being provided.
- (c) *Service Providers* / *Operators* must comply with reasonable and lawful safety directions by relevant Authorities, *Ergon Energy* and *Energex*, person in control of the Worksite and when working within a premise the person in control of the premises.
- (d) The *Service Provider* must develop their own safe system of work for the following (but not limited to) identified hazards and implement control measures which eliminate and / or reduce the identified risk(s):
- (i) Person falling more than 2 m.
 - (ii) External Party and *Ergon Energy* and *Energex* generated RFR.
 - (iii) Structural, electrical and laser light transmission risks associated with external party aerial BBI strand wire and cabling.
 - (iv) Collapse of a structure.
 - (v) Inhalation of disturbed asbestos.
 - (vi) Collapse of temporary structure.
 - (vii) Contaminated atmosphere.

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- (viii) Collapse of excavations, trench, or tunnel.
- (ix) Uncontrolled release of pressurised gas from mains or piping.
- (x) Contact with energised electrical parts or equipment.
- (xi) Contaminated or flammable atmospheres.
- (xii) Contact by vehicles, train, ship, or other traffic corridor mobile equipment other than for pedestrian movement.
- (xiii) Moving powered mobile plant.
- (xiv) Extremes of temperature.
- (xv) Inadvertent entry to a marine environment.
- (xvi) Falling tools, equipment, structure, or another person.
- (xvii) Inadvertent exposure of energised parts, such as damage to insulation or incorrect identification of UG cable.
- (xviii) Repetitive, straining, or sustained movement (manual tasks).
- (xix) Lack of consultation, co-operation and co-ordination between Work Groups at the Worksite or project.
- (xx) Unauthorised access to the electrical network.
- (xxi) Inadvertent discharge of fire suppression system.
- (xxii) Exposure to carcinogens, such as equipment or oil contaminated with PCB.
- (xxiii) Contact with energised parts due to leakage or induction.
- (xxiv) Incorrect or unauthorised operation of HV or LV network control or protection device.
- (xxv) High fault levels.
- (xxvi) Earth return paths within work area due to Broadband Infrastructure installations on OH network.
- (xxvii) Falling from a height less than 2 m; and
- (xxviii) Operating High Risk Plant and tools.
- (e) The *Service Provider* is to implement control measures to eliminate and / or reduce all risk exposures, including:
 - (i) Work on / or in the vicinity of any parties RFR emitting telecommunications installation installed on Poles and other party adjacent infrastructure.
 - (ii) Work on / or in the vicinity of any parties' aerial communications cable network including:
 - Earthed / electrically conductive strand wire and electrically energised telecommunications cables; and
 - Laser light emitting Fibre Optic Cables.
 - (iii) Overhead Assets being conductors of electricity, including earth leakage on Overhead Assets supporting HV.
 - (iv) Overhead Assets supporting multiple infrastructure components of *Ergon Energy* and *Energen* and External Parties at various attachment points including and not limited to energised (live) cables transitioning down wood Poles.

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- (v) Confined space; and
- (vi) Working in remote areas.
- (vii) External Party and *Ergon Energy* and *Energex* generated radio frequency radiation.
- (viii) Structural, electrical and laser light transmission risks associated with external party aerial broadband strand wire and cabling.
- (f) In the event of a Notifiable Incident (as defined in Work Health and Safety Act 2011) or Serious Electrical Incident and Dangerous Electrical Event (as defined in Electrical Safety Act 2002) an *Ergon Energy* and *Energex* Officer must be notified as soon as practical.

8 ENVIRONMENT

- (a) For environmental requirements, refer to WCS133, Section 8 - Environment.
- (b) For environmental requirements specific to this WCS72 refer to the below included references and clauses.
- (c) Assess and manage the additional environmental risks associated with this WCS72, including, and not limited to:
 - (i) Visual impact management.
 - (ii) Energy (e.g., RFR management).
- (d) Before commencing works, Site specific inductions are required to be undertaken in areas covered under the Code of Practice - Maintenance of Electricity Corridors in Queensland's Parks and Forests 2016 and Wet Tropics World Heritage Areas specific requirements.
- (e) The Worksite must be maintained and left in a condition so there is no potential for environmental nuisance or harm to occur at any time.
- (f) The *Service Provider* must complete and implement an environmental risk / impact assessment and an environmental management plan for any Worksite where Services are being provided; that complies with Laws such as Commonwealth of Australia and Queensland.
- (g) The *Service Provider* must assess the following potential environmental risks associated with this category of work, including but not limited to:
 - (i) Containment of materials, waste, soil, and water.
 - (ii) Containment of storm water.
 - (iii) Soil erosion by water and wind.
 - (iv) Spread of Fire Ants and other pests.
 - (v) Spread of noxious weeds (declared plants).
 - (vi) Inadvertent distribution of hazardous substances.
 - (vii) Noise.
 - (viii) Release of dust.
 - (ix) Acid Sulphate Soil disturbance.
 - (x) Protection of marine plant, fish habitats and mangrove areas.
 - (xi) Protection of indigenous and non-indigenous cultural heritage.
 - (xii) Disposal of contaminated substances, materials, and equipment.

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- (xiii) Air quality.
- (xiv) Fauna protection.
- (xv) Flora protection.
- (xvi) Uncontrolled release of pressurised gas from mains or piping.
- (xvii) Spill or release of oil; and
- (xviii) Creosote treated Poles and surrounding soil disturbance.
- (h) Documented environmental risk / impact assessment (s) and environmental plan (s) must be available to *Ergon Energy* and *Energex* on request at each Worksite where Services are being provided.
- (i) *Service Providers* and Operators must comply with all reasonable and lawful environmental directions by any relevant Authorities, *Ergon Energy* and *Energex*, person in control of the Worksite, or person in control of the premises.
- (j) The *Service Provider* must complete a cultural heritage assessment to ensure their works do not impact on any registered Indigenous and non-indigenous cultural heritage (including state and local government listed).

Where impacts will occur to a heritage listed site the *Service Provider* is responsible for gaining the appropriate exemption certificate and/or approvals.

8.1 Fire Ants Precaution

- (a) The *Service Providers* must:
 - (i) Have a Biosecurity QLD (Department of Agriculture, Fisheries and Forestry) Approved Risk Management Plan for Fire Ants.
 - (ii) Demonstrate *Operators* are aware of their responsibility to identify the Fire Ant and measures to be taken to prevent their spread.
 - (iii) Immediately advise Biosecurity QLD (Department of Agriculture, Fisheries and Forestry) and *Ergon Energy* and *Energex* when Fire Ants are detected at a *Worksite*
- (b) Specific Fire Ant awareness courses are available from Biosecurity QLD (Department of Agriculture, Fisheries and Forestry).
- (c) Where Services are to occur in a Fire Ant Restricted Area and the volume of soil to be excavated or moved is greater than one (1) cubic metre; the ground and / or soil must be inspected by a current "Approved Person" and a Fire Ant Inspection Report is to be completed and available.
- (d) Where Services are to occur in a Fire Ant Restricted Area and the volume of soil to be excavated or moved is less than one (1) cubic metre; the ground and / or soil must be inspected by an Operator who has had Fire Ant Awareness Training

8.2 Acid Sulphate Soils

- (a) Acid Sulphate Soils typically occur in areas at 5 m AHD (5 m above mean sea level) or below this level. Acid Sulphate Soils may also be encountered by excavating to below 5 m AHD in areas where the ground surface is above 5 m AHD. If unsure that Acid Sulphate Soil is present, coastal lowland areas such as canal estates (modified waterways), estuaries, floodplains, tidal mangrove flats, coastal lakes, wetlands, swamps, and adjacent lands are likely to have Acid Sulphate Soils present.
- (b) When Acid Sulphate Soils are stockpiled for less than 8 hrs. the soil can be replaced back into the excavation in the reverse order to its removal without treatment.

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- (c) For small tasks (excavations less than 100 m²), acid sulphate soils that is stockpiled for greater than 8 hours will require mixing at a base rate of 25 kg Aglime per cubic metre to return the soil to the excavation. For larger quantities (excavations greater than 100 m²) contact the Worksite supervisor / *Ergon Energy* and *Energex* Officer for assistance.
- (d) Regardless of the scenario, stockpiles of acid sulphate soils must be contained to prevent soil and / or leachate leaving the stockpile area.

8.3 Control of Declared Plants

- (a) Identify relevant declared plants and undertake practical measures to minimise the spread of declared plants. The control measures adopted shall be appropriate for the risk.
- (b) These practices may include, but are not limited to:
 - (i) vehicle and plant clean down.
 - (ii) vehicle, equipment, and employee hygiene; and
 - (iii) chemical control (where permitted)
- (c) On properties where it is known that a management plan, for declared plants under the Land Protection (Pest and Stock Route Management) Act 2002 exists; Operators shall comply with the requirements of the management plan.

8.4 Disposal of Waste

- (a) The Service Provider
 - (i) is directly responsible for the prevention of all littering by their *Operators*; and
 - (ii) must cause all litter (including papers, tins, bottles, and rags) to be cleaned up daily from areas where it is performing the *Services*.
- (b) Preference must be given to avoiding generation, reusing, and recycling of waste materials before disposal of any waste material occurs.
- (c) All waste materials must be collected and stored securely on or removed from the Worksite daily.
- (d) The disposal of any waste material, including hazardous or regulated waste, chemical or control of any spill must be in strict accordance with the Laws, Service Providers own safe system of work, Manufacturer's instructions (generally detailed on the label and Material Safety Data Sheet) and Authority requirements at the nearest approved refuse disposal area for the type of waste involved.

9 EXTENT OF WORK

- (a) For the general extent of work requirements, refer to WCS133, Section 9 – Extent of Work.
- (b) For extent of work requirements specific to this WCS72 refer to the below included references and clauses.
- (c) Provide Services under this WCS72 in accordance with (and not limited to):
 - i. WCS1.7
 - ii. Work Category Specification WCS5.1 - Poles Inspect and Treatment.
 - iii. Work Category Specification WCS25 - Overhead Mains Electrical Construction.
 - iv. Work Category Specification WCS31 - Commissioning and Operation.
 - v. Work Category Specification WCS34 - Earthing Systems.
 - vi. Work Category Specification WCS47.4 - Electrical Network Planning and Design.

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- vii. Work Category Specification 72 - External Party Communications Cables.
- viii. Work Category Specification 72.1 - External Party Underground Communications Cables.
- ix. Work Category Specification 72.2 - External Party Aerial Communications Cables.
- x. Work Category Specification WCS37 - Public Lighting Installations.
- xi. Energy Queensland Procedure 00237 - Shared Network Asset Works Management.
- xii. Energy Queensland Operating Practices Manual (OPM);
- xiii. Energy Queensland Overhead Construction Manual, Doc. No. 4920.
- xiv. Energy Queensland Manual 00302 - Overhead Design Manual.
- xv. Energy Queensland Manual 00294 - Queensland Electricity Connection and Metering Manual.
- xvi. Energy Queensland Manual 00502 - Lines Defect Classification Manual.
- xvii. Energy Queensland Manual 00369 - Pole Inspection Guidelines.
- xviii. Energy Queensland Manual 00796 - Public Lighting Construction Manual.
- xix. Energy Queensland Standard 01037 - As Constructed Drawing Standard.
- xx. Energy Queensland Standard 00310 - Energy Queensland Environmental Management System: Environmental Standard.
- xxi. Energy Queensland Form 1206 – Network Connection Application.
- xxii. Energy Queensland – Electrical Work Request.
- xxiii. WP9524 - Inspecting Poles and Crossarms for Safe Work1
- xxiv. WP9524 - Inspecting Poles and Crossarms for Safe Work2
- xxv. Work Health and Safety Act 2011 - Managing risks of plant in the workplace Code of practice 2013.
- xxvi. Work Health and Safety Act 2011 – Mobile Crane Code of Practice 2006.
- xxvii. Work Health and Safety Act 2011 – Lifter Borer Code of Practice 2006.
- xxviii. Telecommunications Act 1997 as amended or replaced.
- xxix. Telecommunications Code of Practice 1997 as amended or replaced.
- xxx. Telecommunications (Low-Impact Facilities) Determination 1997 as amended or replaced.
- xxxi. The Service Provider's safe system of work.
- xxxii. Documentation (with RPEQ certification) detailing the relevant procedures for the design, installation, maintenance, and recovery of each type of Shared Asset Installation proposed to be installed by the Service Provider / Operator for each Client.
- xxxiii. Measures designed to avoid contacting underground infrastructure based on obtained current plans detailing existing underground essential services infrastructure in the immediate area and surrounding the Worksite.
- xxxiv. All necessary certificates, licences, consents, permits, approvals, and requirements for the Services being performed.

¹ For Ergon Energy and Energex related references refer to Section 13 – References.

² For Ergon Energy and Energex related references refer to Section 13 – References.

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- xxxv. Current plans detailing existing underground Services infrastructure in the immediate area and surrounding the Worksite.
- xxxvi. Queensland Electricity Entity Procedures for Safe Access to High Voltage Electrical Apparatus (SAHV).
- xxxvii. AS 1199.1:2003 - Sampling procedures for inspection by attributes - Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection.
- xxxviii. AS 2550.5-2016 - Cranes, hoists, and winches - Safe use - Mobile cranes
- xxxix. AS 1418.5:2013 - Cranes, hoists, and winches - Elevated work platforms (EN 13000:2010, MOD).
- xl. AS 1319-1994 - Safety signs for the occupational environment
- xli. AS/NZS 4676:2000 - Structural design requirements for utility services poles
- xlii. AS/NZS 3015 -2004 – Electrical Installations – Extra Low Voltage D.C Power Supplies and Service Earthing within Public Telecommunications Networks.
- xlili. AS/NZS 61558.1:2008 – Safety of Power Transformers, Power Supplies, Reactors and Similar Products – General requirements and test (IEC 61558-1 Ed 2, MOD).

9.1 Service Provider Responsibilities

- (a) The Services provided must be performed such that only minimum of disruption will be caused to the:
 - (i) business community,
 - (ii) general public,
 - (iii) persons occupying land adjacent to or in the vicinity of the Worksite; and
 - (iv) vehicular and pedestrian traffic.
- (b) For worksites located within restricted areas under the control of others such as but not limited to mine sites, railway property or indigenous lands and communities; it is the responsibility of the Service Provider to obtain required entry permits and entry conditions prior to entering the restricted areas to undertake work. Service Providers and Operators must strictly comply with all conditions of entry.
- (c) The performance of the Services must not materially interfere with the performance of works being undertaken by *Ergon Energy* and *Energex* and or any other Service Providers on the Worksite.
- (d) Investigate and resolve to the reasonable satisfaction of *Ergon Energy* and *Energex*, any complaint about the way in which the Service Provider / Operators performs any element of the Services.
- (e) Repair any damage to the property of *Ergon Energy* and *Energex* or Authority resulting from any deficient or defective Services or the re-performance of those Services provided.
- (f) When Services being provided on or in close vicinity to private property the following actions apply:
 - (i) When entering private property, advise occupier where practicable prior to commencement of Services.
 - (ii) Where appropriate advise occupier of Operators departure.
 - (iii) Operators must leave gates in an 'as found' condition; and
 - (iv) Obtain agreement of the resident where the footpath garden of the resident will be disturbed while performing the Services.

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- (g) Gain the required approvals from Authorities to obtain access to the Worksite. (including traffic control permits, with / without conditions)
- (h) Notify all Authorities of Services being performed and upon commencement / completion of work.
- (i) Ensure that a program scheduling each stage of Services being provided is established, regularly updated as work progresses, and made available on request and provide advice of:
 - (i) Recommencement of Services being provided on Worksite after prolonged period of delay after ceasing work at Worksite.
 - (ii) Key or agreed stages of Service's completion where *Ergon Energy* and *Energex* inspection / acceptance is required before proceeding.
 - (iii) Handover meetings from one Service Provider to another; and
 - (iv) Completion of Services being provided on Worksite.
- (j) Immediately notify (or as soon as is practicable after the occurrence) to *Ergon Energy* and *Energex* Officer in the event of the following:
 - (i) Receipt of a complaint.
 - (ii) Any significant disruption to programme of Services being provided.
 - (iii) Any damage to *Ergon Energy* and *Energex* or other parties' property or essential services.
 - (iv) Unplanned outage of network due to Services being provided; and
 - (v) Any unserviceable network infrastructure identified at the Worksite.
- (k) Immediate notification (or as soon as is practicable after the occurrence) to *Ergon Energy* and *Energex* Officer in the event of significant incident or complaint followed with a written incident report forwarded to *Ergon Energy* and *Energex* within 2 Business Days of the close of business on the day the incident occurred.
- (l) The Service Provider or their agent is responsible for notifying all other interested parties of works that are programmed to be commissioned in full or progressively. Interested parties include the principal contractor for the workplace and / or the overall Worksite project manager. Notification to all parties must be completed and the WHS Management Plan amended (if required) at the time of Commissioning.

9.2 Operators Responsibilities

- (a) Operators must not make any comment on behalf of *Ergon Energy* and *Energex*.
- (b) Operators must:
 - (i) Normally work to the general instructions of the *Ergon Energy* and *Energex* Officer,
 - (ii) Ensure dangerous situations are rectified or mitigated immediately.

9.3 Supplied Materials and Equipment

- (a) The Service Provider must provide at its sole cost and expense all goods, equipment, spare parts, labour, and services necessary to perform the Services unless otherwise stated in this Work Category Specification.
- (b) All recovered *Ergon Energy* and *Energex* material(s) and equipment shall remain the property of *Ergon Energy* and *Energex* and must be taken into account when reconciling

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material(s) and equipment. Recovered *Ergon Energy* and *Energex* material(s) and equipment including scrap cable, conductors and plant must be returned to the *Ergon Energy* and *Energex* nominated location at the completion of Services.

- (c) Should any *Ergon Energy* and *Energex* owned material and equipment, including keys and ID Cards, be lost, stolen or damaged, the full cost of repairs or replacement, and any action(s) necessary to maintain network security will be recovered by *Ergon Energy* and *Energex* from the Service Provider.

9.4 Reinstatement

- (a) The backfilling, compaction and re-surfacing of open cut excavation must be undertaken in order to restore surface and underlying soil structure to enable it to perform its original function.

9.5 Surface Reinstatement

- (a) Permanent reinstatement of surfaces must be carried out as soon as practicable after completion of backfilling and excavation reinstatement.
- (b) Surfaces removed or damaged during the provision of the Services must be reinstated to the original surface levels (within agreed tolerance) with similar material such as concrete, turf (quality couch), bitumen, asphalt, paving, tiles or as agreed with the Authority or owner and must include the re-establishment of street furniture, driveways, and gardens.

9.6 Excavation and Working Around Ergon Energy and Energex Assets

Ergon Energy and *Energex* requires when excavating around energised cables, the following control measures be incorporated into the *Service Provider's* safe system of work:

- (a) The Service Provider must pot-hole (hand or vacuum excavation) all electrical cables before any mechanical excavation commences.
- (b) The use of Dial Before You Dig (DBYD) where available, must be utilised by all Service Providers to obtain below ground utility service locations when required to carry out ground penetration works.

9.7 Excavation and Working Around Ergon Energy and Energex Assets

When excavating around energised underground cables, the following control measures, as a minimum are to be incorporated into the *Service Providers* safe system of work:

- (a) Hand excavation techniques to be used when within 300 mm of cables. (a)
- (b) Use of tools and personal protective equipment with suitable level of insulation. (b)
- (c) When accessing Conduits, Pipes, or direct laid cables, maintain a minimum 150 mm clear zone.

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9.8 Pits

- (a) Pits must be installed at least 2 metres away from Pole base at the ground line.
- (b) The Service Provider must be responsible for negotiations with all relevant Authority(s) regarding use of the footpath / road reserve for Pit installation.
- (c) Pits must be installed outside of the electricity footpath allocation / alignment and clear of all insitu electricity reticulation infrastructure.

9.9 Generic Overhead Asset Selection Requirements

- (a) The *Service Provider* is to differentiate between *Overhead Assets* owned by *Ergon Energy and Energex* and those owned by other *Authorities*, and public or private bodies when selecting potential *Wireless Installation Sites*. If in doubt; confirm *Ergon Energy and Energex* ownership before proceeding with application to install *Wireless Installations*.
- (b) The attachment of *Wireless Installation* to any *Overhead Asset* on which existing *Wireless Installations*, for example, mobile telephone infrastructure of any type are installed is not permitted without formal written agreement by *Ergon Energy and Energex* and all affected *External Parties*.
- (c) Contact the *Ergon Energy and Energex Officer* to make a final determination on *Overhead Asset Site* use issues, where unresolved conflicts regarding the use of *Ergon Energy and Energex* assets occur between *Clients* and between *Service Providers*.
- (d) At any time, subject to contractual agreement provisions, *Ergon Energy and Energex* may remove or require temporary or permanent removal by *Service Provider* of *Wireless Installation* or component thereof:
 - (i) for *Ergon Energy and Energex* asset replacement, relocation, and maintenance; or
 - (ii) for any other planned or emergency work related purpose including for adjacent site works (for example, temporary construction infrastructure for developments).

9.10 Cable Installation Electrical Installations

- (a) All *Cable Installation* electricity power supplies will comply with the requirements of all applicable standards including:
 - (i) Electricity Act and Regulations.
 - (ii) Electrical Safety Act and Regulations.
 - (iii) AS/NZS 3000.
 - (iv) Energy Queensland Manual 00294; and
 - (v) WP1202.as amended from time to time.
- (b) The *Service Provider* is to:
 - (i) ensure all electrical work is undertaken by a *Licensed Electrical Contractor*.
- (c) For each new *Cable Installation* site, a *Licensed Electrical Contractor* is to complete and forward to *Ergon Energy and Energex* and the relevant energy retailer an *EWR* for initial connection, including but not limited to:
 - (i) inspect, certify, and notify *Ergon Energy and Energex* that the electrical installation is electrically safe and ready for connection to the electricity distribution network.
 - (ii) the date supply is required for a permanent electrical installation or period of supply required for approved temporary electrical installations.

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- (iii) the *Pole* identification number and address at which electrical installation is installed.
 - (iv) the details of type and electrical loading (including maximum and average electricity consumption demands) of each electrical installation to be installed; and
 - (v) what *Ergon Energy and Energex* work (for example overhead / underground supply) is requested to supply electrical installation.
- (d) Generally, electricity supply to the *Cable Installation* electrical reticulation installation is:
 - (i) by a single-phase *Low Voltage AC* unmetered supply.
 - (ii) serviced from a point of *Low Voltage* electricity supply as determined by *Ergon Energy and Energex*; and
 - (iii) supplied via an *Ergon Energy and Energex* standard service arrangement to the *Customer's* designated consumer terminal.
- (e) As determined by *Ergon Energy and Energex*, options for electricity supply includes (but not limited to):
 - (i) metered or unmetered supply.
 - (ii) the supply of a drop-down service on a *Pole*.
 - (iii) a service from an existing or new supply pillar or underground *Electricity Pit*.
 - (iv) The provided cost estimate for *Make Ready Works* may include (but not limited to) all electricity supply infrastructure upgrades.
- (f) Before any final service connections to the *Low Voltage* distribution network are undertaken by *Ergon Energy and Energex*, the *Licensed Electrical Contractor* is to provide a Certificate of Test which certifies all required tests have been carried out and the electrical reticulation is electrically safe and ready for connection as required by Section 155 and 156 of the Electrical Safety Regulation 2013 (as amended from time to time).
- (g) *Ergon Energy and Energex* will install the *Ergon Energy and Energex* electrical service and conduct appropriate tests to check and confirm electrical installation is safe to connect to the *LV* distribution network as detailed in the WP1202.
- (h) The *Cable Installation's* electricity consumption is to be charged in accordance with the appropriate energy retailer's metering and tariff policy as amended.
- (i) The *Client* will ensure a new *EWR* is forwarded to *Ergon Energy and Energex* and the relevant energy retailer should:
 - (i) a change of electrical loading occurs; or
 - (ii) an existing *Cable Installation* no longer requires electricity supply.
- (j) The *Cable Installation* will remain connected to electricity supply once initially commissioned (for example, the primary fuse remains installed), and isolation and re-energisation of the *Cable Installation* will only occur through the operation of the *Cable Installation's* electrical main switch.
- (k) Have an appropriate maintenance program in place to ensure electrical and mechanical (including earthing systems) integrity or otherwise disconnect from the electricity supply and remove from service if has not been maintained for an extended period.

9.11 Metallic Cable Components

- (a) The external party and *Service Provider* are to ensure that any conductive or metallic Cable components installed on, within or in the vicinity of any Network Assets are be adequately designed, tested, and certified structural capacity and installed to minimise any electrical impact on the Cable, including induction.

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9.12 Identification of Shared Asset Installation Ownership

- (a) The Cable at each Pit, Substation, Cable termination cubicle / joint / splice and Pole attachment point must have a durable non-metallic identification label attached which is acceptable to *Ergon Energy* and *Energex*.
- (b) The label must clearly identify the Cable owner (External Party).
- (c) This identification must be legible to workers of any other party.
- (d) The Cable owner identification and contact details may be used by any party (such as *Ergon Energy* and *Energex* or an Authority) to contact the External Party (or responsible person) regarding the Cable being affected as a result of planned or emergency *Ergon Energy* and *Energex* or Authority works, such as Pole or Pit / Conduit relocation, replacement, or recovery, such as due to road works.

9.13 Works Management for Ergon Energy and Energex Network Assets

Unless otherwise agreed in writing with *Ergon Energy* and *Energex* works management notification and coordination must be in accordance with relevant contractual agreement provisions and Energy Queensland Procedure 00237 - Shared Network Asset Works Management.

9.14 Cable Installations

- (a) Cable Installations must comply with all requirements, clearances and / or alignments relating but not limited to:
 - (i) The *Law*.
 - (ii) *Network Assets*.
 - (iii) *Authority* road reserves; and
 - (iv) Private premise and or land.

9.15 As Constructed Drawings

- (a) Where and as required by *Ergon Energy* and *Energex*, any 'As Constructed' drawings of the Cable Installations provided, must comply with the requirements of the *Ergon Energy* and *Energex* 'As Constructed Drawing Standard'.
- (b) Any 'As Constructed' drawings must contain detailed Cable route information including, as a minimum:
 - (i) Identification of the owner (*External Party*).
 - (ii) *Worksite* address(s) or street and building locations at / to which an *Aerial Cable Installation* is installed.
 - (iii) Applicable identification number(s) of each *Pole* to which an *Aerial Cable Installation* is attached.
 - (iv) *Aerial Cable Installation* attachment heights, intercircuit, above ground and roadway clearances.
 - (v) Applicable location identification of each *Pit* used for an *Underground Cable Installation*.
 - (vi) Applicable *Conduit* identification and actual *Conduit(s)* used for an *Underground Cable Installation*; and
 - (vii) All *Substations* and building addresses entered by the *Cable Installation*.

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- (c) The *Service Provider*, not *Ergon Energy* and *Energex*, is responsible for providing as constructed drawing of each Cable Installation to the relevant Authority and External Party and be made accessible to “Dial Before You Dig”

9.16 Damage

- (a) The *Service Provider* is to prevent damage to infrastructure, for example, *Overhead Assets*, *External Party* equipment on *Overhead Assets* and elsewhere, road surfaces, footpaths, lawns, and driveways etc. and private property, for example, fences and gates.
- (b) In the event of *Wireless Installation* or associated works causing damage to or deterioration (including corrosion) of any *Overhead Asset*, the *Service Provider* is to notify this damage or deterioration to *Ergon Energy* and *Energex* for assessment as soon as possible. If damage or deterioration is caused by actions of *Service Provider*, then all repairs are to be at *Service Provider's* sole cost.
- (c) Where damage has occurred, carry out repairs to the satisfaction of *Ergon Energy* and *Energex*, the *Client*, the property owner, and relevant *Authority*, at the *Service Provider's* cost.
- (d) Restoration including associated costs of any damaged heritage sites/places is the responsibility of the *Service Provider*.

10 RECORDS

10.1 Records Management

The *Service Provider*:

- (a) Acknowledges that *Ergon Energy* and *Energex* has obligations under the Laws including the Public Records Act 2002 (Qld) ('Records Act') regarding the collection and management of records of its activities, while providing *Services*.
- (b) Must do all things necessary to assist *Ergon Energy* and *Energex* to comply with the obligations imposed by the Records Act.
- (c) Must maintain full and accurate, records including but not limited to:
- electronic records,
 - correspondence,
 - instructions,
 - internal quality audit reports,
 - plans / drawings,
 - receipts,
 - regulated waste tracking documentation,
 - invoices to enable *Ergon Energy* and *Energex* to verify the *Services* have been provided,
 - hazard management measures carried out as part of the *Services* being provided,
 - any complaints and environmental incidents that occurred while providing the *Services*,
 - testing records and
 - underground service location enquiries made, and the location information provided by *Authority* or road owner.

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- (d) Ensure all documentation, records and completed forms established as part of the Services provided are accurate, well ordered, and available to *Ergon Energy* and *Energex*.

10.2 As Constructed Drawings

- (a) Unless otherwise required under the relevant contractual agreement, “As Constructed” drawing(s) are to be provided to the *Ergon Energy* and *Energex* Officer within 10 Business Days of completion of the Services.
- (b) As Constructed drawings containing progressive construction details must be available at Worksite for reference.

11 WORK VERIFICATION

- (a) The *Service Provider* must be responsible for continuous auditing of Services.
- (b) *Ergon Energy* and *Energex* reserves the right to undertake separate auditing as detailed in Appendix A, Appendix B, and Appendix C.

12 DEFINITIONS

The following words, acronyms and abbreviations are referred to in this Work Category Specification.

Accredited Service Provider

Company or organisation that has met relevant criteria and obtained a WCS rating authorising them to perform *Services* under this WCS72.

ADSS

Non – conductive, all dielectric self –supporting (refers to a type of aerial *Fibre Optic Cable*).

Aerial Cable Installation

Cable Installation installed above ground / overhead and attached to Poles, including ADSS Fibre Optic Cables, HFC Cables, and PSTN Cables.

Authorisations

All consents, licences, approvals, certificates, and permits of, and notifications, exemptions, declarations, filings, and registrations with, any *Authority* required for the performance of the *Services*.

Authority

Any government or regulatory body, minister, agency, court, tribunal with jurisdiction over the activity or thing about which the reference to an authority is made.

Business Day

A day other than Saturday, Sunday, statutory holiday, or public holiday in Queensland.

Cable Installations

Means *External Party* owned communications cable network components, comprising of *Aerial Cable Installations* and *Underground Cable Installations*.

Conduit

An *Underground Network Asset* which is an underground duct space, typically installed under the footpath within and along the footpath allocation (*Ergon Energy* and *Energex* underground network alignments for electricity), between points of termination (such as pillars and or *Pits*).

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Network Assets

Poles, Underground Network Assets and Substations owned by Ergon Energy and Energex.

Electricity Pit

A formed or polymeric underground pit space containing *Ergon Energy and Energex* electricity network related cables and joints.

Ergon Energy and Energex Officer

Ergon Energy and Energex's agent in relation to the administration of the Service provided and who serves as the interface between Ergon Energy and Energex and the Service Provider with respect to all aspects of performance of the Services.

Ergon Energy and Energex

Any member of the Ergon Energy and Energex group of companies for example *Energex, Ergon Energy Network* etc.

Fibre Optic Cable

Cable Installations consisting of a number of lights transmitting glass or plastic fibres around a core of strength providing material.

Formed Concrete Electricity Pit

A single or multi - personnel access cover formed concrete (reinforced and or precast) Electricity Pit of sufficient size to allow personal access for work below ground surface and Ergon Energy and Energex electricity network related cables and joints.

HFC Cable

Means aerial hybrid fibre coaxial (incorporating strand wire catenary and bundled by lashing wire).

PSTN Cable

Means aerial public switched telephone network (which is also known as the copper telephony network).

Laws

All relevant Acts and Regulations of the Commonwealth of Australia, State or Territory in which the *Services* are carried out.

Make Ready Works

Works undertaken on or replacement of *Network Assets*, to prepare them for *Aerial Cable Installations*.

Operator

A person engaged by the *Service Provider* to perform any part of the *Services* (with the relevant licences, competencies, qualifications, and certifications to undertake the tasks).

Communications Pit

A formed or polymeric underground pit space, typically located outside the electricity footpath allocation (*Ergon Energy and Energex* underground network alignment), used for accessing, installing and / or maintaining the *Underground Cable Installations*.

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Pole

An *Ergon Energy and Energex* owned (timber or concrete) distribution *Pole*, (and not an *Ergon Energy and Energex* service *Pole*, public lighting column, or transmission tower of any kind), which supports electricity distribution network apparatus, plant and conductors energised or energisable at up to and including 33 kV

RFR

means radio frequency electro-magnetic energy radiation produced by wireless telecommunications installation components, for example, antennas, microwave dishes or other radio frequency radiation emitting devices.

RPEQ

means a Registered Professional Engineer of Queensland (under the relevant Electrical, Mechanical and / or Structural Division), required to undertake type(s) of engineering assessment and / or certification in accordance with and required under this WCS72.

Safety Observer

person with the role to observe work undertaken by others, warn the worker or workers of hazards / danger, stop work should a hazardous situation develop, as well as to perform rescue and resuscitation as required. This person must comply with all the requirements of the Laws.

Substation

Means a *HV* commercial and industrial electrical substation within a commercial buildings / complex.

Substation Exclusion Zone Officer – Energex network

A person who is independent of the *Work Group*, specifically assigned the responsibility of observing and warning against unsafe approach to equipment, exposed energised conductors and other potential hazards within a *Substation*. (as defined within the QLD Electrical Safety Code of Practice 2010 – Working Near Exposed Live Parts).

Officer for Local Security – Ergon Energy Network

A person who is appointed by EQL, specifically assigned the responsibility of access management, cooperation, consultation, and coordination of works within a *Substation*.

Services

The work / task to be performed by the *Service Provider* under this WCS72.

Service Provider

Company or organisation (including contractor(s) and or sub-contractor(s)) performing *Services* under this WCS72.

System Keys

Any device (key, proximity card etc) which allows access to *Ergon Energy and Energex* secure facilities, including *Substations*.

Underground Cable Installation

Cable Installations installed within *Conduits*, *Electricity Pits* and *Substations*.

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Underground Network Assets

The following *Network Assets*:

- (i.) Building / *Substation* entry *Conduits*, tray-ways, and ladders;
- (ii.) Footpath alignment *Conduits*;
- (iii.) Road crossing *Conduits*;
- (iv.) *Electricity Pits* (including *Formed Concrete Electricity Pits*).

WCS

means *work category specification*.

Work Group

All Operators and persons performing associated functions providing *Services* at a *Worksite*.

Worksite

Clearly defined immediate area in the vicinity of where *Services* are being provided or are to be performed by *Operators* including all vehicles, plant and equipment being utilised.

13 REFERENCES

13.1 Available Documents

The following documents / forms must always be available to Infield *Operators* for verifying *Service* requirements:

- *Service Providers* own safe system of work
- All relevant associated Work Practices for tasks to be undertaken
- All necessary certificates, licences, consents, permits, approvals, and requirements for the *Services* being performed
- Current plans detailing existing underground *Services* infrastructure in the immediate area and surrounding the *Worksite*
- Energy Queensland Operating Practices Manual (OPM)
- Energy Queensland Overhead Construction Manual
- Energy Queensland Underground Distribution Construction Manual
- Equipment manufacturers operation and maintenance manual,
- MSDS and label for all chemicals used at *Worksite* such as hydraulic oil or soaps
- Energy Queensland Fibre Broadband Networks Standards

13.2 Energy Queensland Documents

- Energy Queensland Public Lighting Construction Manual
- Energy Queensland BMS 00618 – Procedure: Plan Network Switching
- Energy Queensland BMS 01611 – Manual: Operating Practices Manual
- Energy Queensland BMS 01613 – Manual: Overhead Design Manual
- Energy Queensland Works Plan Standard

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- Energy Queensland As Constructed Drawing Standard
- Energy Queensland BMS 03385 – Standard: Safety Specification for Contracted Work
- Energy Queensland BMS 1102 - Shared Network Asset Works Management
- Queensland Electricity Entity Procedures for Safe Access to High Voltage Electrical Apparatus (SAHV)
- Energex Overhead Construction Manual
- Energex Overhead Design Manual
- Energex Underground Distribution Construction Manual
- Ergon Energy Overhead Construction Manual
- Ergon Energy Overhead Design Manual
- Ergon Energy Underground Construction Manual
- Ergon Energy Underground Design Manual

13.3 Queensland Acts and Regulations

- Work Health and Safety Act 2011
- Work Health and Safety Regulation 2011
- Electricity Act 1994
- Electricity Regulation 2006
- Electrical Safety Act 2002
- Electrical Safety Regulation 2002
- Queensland Codes of Practice
- Relevant Australian Standards
- Environmental Protection Act 1994
- Environmental Protection Regulation 2008
- Queensland Heritage Act 1992
 - b) Aboriginal Cultural Heritage Act 2003
 - c) Planning Act 2016

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