Transfer of Dedicated Connection Assets to the DNSP

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Part of Energy Queensland

Purpose

This Fact Sheet provides guidance for Large Customers who are designing and constructing dedicated connection assets, either directly or through a third party Accredited Service Provider, for transfer to the Distribution Network Service Provider (DNSP). It outlines the recommended prescribed materials and the information that the DNSP requires for the various items of equipment being transferred.

Definitions

Accredited Service Provider	An entity that has been approved by the DNSP to provide a relevant design or construction service.
DNSP	For the purpose of this Fact Sheet, the term DNSP means **Energex Limited or Ergon Energy Corporation Limited (Ergon Network)**.
Large Customer	In this Fact Sheet, this refers to a person who intends to submit an application to connect to the DNSP for either a new connection or a modification of an existing connection. Acceptance of the application and completion of the required works will result in the customer being classified by the DNSP within the tariff classes of Connection Asset Customer (CAC), Individually Calculated Customer (ICC), distribution connected unit operators, or real estate developers.
Technical Representative	A person appointed by the DNSP to act as the single point of contact between the Large Customer and the DNSP for all technical aspects of the works, including liaison with internal design groups and subject matter experts.

Requirements for Transferred Materials

For assets that are transferred to the DNSP, it is essential that the equipment meets DNSP network standards and is compatible with the distribution network. The DNSP maintains an Approved Materials List on its website.

The DNSP will specify the exact manufacturer and model of the required equipment and plant that the customer must use. If there are technical difficulties in using the specified equipment, the Accredited Service Provider must request approval from the DNSP to use an alternative that satisfies DNSP technical equipment specifications.

Information on Approved Materials

Information on the long lead time pre-selected items is available as follows:

- DNSP period contract items and stock items are listed in the Substation Materials List included in Appendix C of the Works Specification.
- Drawings of preferred major plant items, where available, are included in Appendix C of the Works Specification or will be provided when they become available. The Accredited Service Provider must confirm that the drawings provided are the latest versions before beginning detailed design.
- Drawings of other period contract and stock items are generally available in the EDMS and can be supplied to the Accredited Service Provider on request..

Note: In certain situations, equipment with a higher rated voltage than the nominal voltage may be required due to re energisation or switching transients at the proposed location. In these cases, the Accredited Service Provider must undertake investigations and supplier discussions to ensure that the selected plant complies with DNSP standard specifications. Circuit breakers may require single pole point on wave switching capability depending on the outcome of the Accredited Service Provider transformer energisation study.

Labelling of Equipment

The DNSP will provide the Large Customer with the required operational and identification label details for equipment, substation buildings and enclosures that will be transferred to the DNSP. The Large Customer must provide the DNSP with a table listing each equipment item along with label identification, make, model and serial number.

Provision of Information

Before commissioning any assets that will be transferred, the Large Customer must provide the DNSP with:

- all associated design manuals and test certificates for the assets
- copies of all relevant approvals and authorisations
- all relevant technical details of the equipment, as outlined below

Equip Class	Nameplate
Bushing	Rated Current (A) Bushing Catalogue No Bushing Position Type of Bushing Manufacturer of the Bushing Model No Phase (A,B,C,N, All) Serial Number Short Time Current (KA)

Equip Class	Nameplate
	Short Time Seconds (S) Nominal Operational Volt (kV) Rated Voltage (kV) Year of Manufacture Parent Equipment Details
Circuit Breaker	Rated Current (A CB Asymmetrical Break Cap (KA) CB Equivalent Break Cap (KA) CB Symmetrical Break Cap (KA) CB Fault Rating CB Fault Rating Units Nameplate Circuit Breaker Installation CB Peak Making Capacity (KA) CB Symmetrical Making Cap (KA) Manufacturer of the CB Model No Serial Number Short Time Current (KA) Short Time Seconds (S) Terminal Rated Current (A) Nominal Operational Volt (kV) Rated Voltage (kV) Year of Manufacture
Current Transformer Set (e.g.: internal to transformer)	Instr Set Description Instr Set Number Instr Tx Set Position Parent Equipment Details
Cable (Power)	Rated Current (A) Burial Method Cable Armour Cable Description Cable Formation Cable Insulation Number of Cores in Cable Type Bus/Cable (Cond) Installation Bus/Cable Purpose Conductor Nominal Area (mm2) Conductor Number per Phase Conductor / Cable / Bus Type Diameter (mm) Length (m)

Equip Class	Nameplate
	Manufacturer of the Bus/Cable Model No Standard Asset Tested to Type of Standard Nominal Operational Volt (kV) Rated Voltage (kV) Year of Manufacture Installed Cable Length (m) Installed Trench Profile Installed Cable Earth Bonding Arrangement
Current Transformer Core	Instr Burden Units Instr Tx Core Avail Ratios Instr Tx Core Burden (Ohms) Instr Tx Core Class Instr Tx Core Output (VA) Instr Tx Core Rating (A) Instr Tx Core Ratio Instr Tx Purpose Manufacturer of Instrument Tx Model No Phase (A,B,C,N, All) Temp for Res Measure (Degrees) Resistance of Asset (Ohms) Serial Number Short Time Current (KA) Short Time Seconds (S) Standard Asset Tested to Type of Standard Thermal Limit (A) Nominal Operational Volt (kV) Rated Voltage (kV) Year of Manufacture Parent Equipment Details
Current Transformer	Instr Tx Purpose Manufacturer of Instrument Tx Model No Phase (A,B,C,N, All) Number of Phases

Equip Class	Nameplate
	Serial Number Short Time Current (KA) Short Time Seconds (S) Standard Asset Tested to Type of Standard Thermal Limit (A) Nominal Operational Volt (kV) Rated Voltage (kV) Year of Manufacture Parent Equipment Details
Fan	Tx Accessory Capacity (L/min) Tx Accessory Rating UOM Tx Accessory Rating Tx Accessory Speed (RPM) Manufacturer List Accessories Model No Standard Asset Tested to Type of Standard Year of Manufacture Parent Equipment Details
Isolator	Rated Current (A) Manufacturer of Switch Model No Product Serial Number Short Time Current (KA) Short Time Seconds (S) Nominal Operational Volt (kV) Rated Voltage (kV) Year of Manufacture
Link	Rated Current (A) Type of Bushing Manufacturer of Switch Model No Product Short Time Current (KA) Short Time Seconds (S) Nominal Operational Volt (kV) Rated Voltage (kV) Year of Manufacture
Overhead Line	Conductor Type from QESI Standard Conductor Size (mm)

Equip Class	Nameplate
	Operating Voltage (kV) Span Length (m) Installed % of Net Breaking Load (NBL) Maximum Design Temperature (°C) Designed Wind pressure (kPa)
Pump	Tx Accessory Capacity (L/Min) Tx Accessory Rating Commissioning Date Contract No Manufacturer List Accessories Model No Rating UOM Speed Standard Asset Tested to Type of Standard Temperature Indicator Range Year of Manufacture Parent Equipment Details
Regulator -Power	Conservator Fitting Contract No Fibre Probes Heat Run Data Source * Manufacturer of the Tx Model No Serial Number Standard Asset Tested to Tx Ambient Temp For Run (MVA) Tx Connection Configuration Cooling For Tx 1st Rating Cooling For Tx 2nd Rating Cooling For Tx 3rd Rating Cooling For Tx 4th Rating Tx Heat Run Base Tx HV Temp Gradient (Degrees) Tx HV Winding Temp Rise (Deg) Tx LV Temp Gradient (Degrees) Tx LV Winding Temp Rise (Deg) 1st Rating of Tx (MVA) 2nd Rating of Tx (MVA) 3rd Rating of Tx (MVA)

Equip Class	Nameplate
	4th Rating of Tx (MVA) Tx Reactance (%) Tx Top Oil Temp Rise (Degrees) Tx Winding Resistance (%) Vector Group Primary Voltage (kV) Secondary Voltage (kV) Tertiary Voltage (kV) Year of Manufacture Total Mass (kg) Transport Mass (kg) Tank Mass (kg) Main Tank Oil Volume (L) Year of Manufacture
Tap changer	Rated Current (A) Contract No Manufacture of the Tap changer Model No Number of Phases Serial Number Type of Tap changer Nominal Operational Volt (kV) Rated Voltage (kV) Year of Manufacture Parent Equipment Details
Temperature Indicator	Commissioning Date Contract No Manufacturer of Temp Indicator Model No Temperature Indicator Range Temp Indicator Switch Type Temperature Indicator Type Year of Manufacture Commissioning Date Parent Equipment Details
Transformer-Power	Conservator Fitting Contract No Fibre Probes Heat Run Data Source * Manufacturer of the Tx Model No

Equip Class	Nameplate
	Serial Number Standard Asset Tested to Tx Ambient Temp For Run (MVA) Tx Connection Configuration Cooling For Tx 1st Rating Cooling For Tx 2nd Rating Cooling For Tx 3rd Rating Cooling For Tx 4th Rating Tx Heat Run Base (MVA) Tx HV Temp Gradient (Degrees) Tx HV Winding Temp Rise (Deg) Tx LV Temp Gradient (Degrees) Tx LV Winding Temp Rise (Deg) 1st Rating of Tx (MVA) 2nd Rating of Tx (MVA) 3rd Rating of Tx (MVA) 4th Rating of Tx (MVA) Tx Reactance (%) Tx Top Oil Temp Rise (Degrees) Tx Winding Resistance (%) Iron Losses (kW) Copper Losses (kW) Vector Group Primary Voltage (kV) Secondary Voltage (kV) Tertiary Voltage (kV) Year of Manufacture Total Mass (kg) Transport Mass (kg) Tank Mass (kg) Main Tank Oil Volume (L) Year of Manufacture

* Supply Heat Run Test and Loss data for all applicable cooling modes.

Further information

For any additional details or clarification, please contact your Project Sponsor.