



# A message from Technical Standards



## CitiPower/Powercor Technical Standards Update for October 2019

Please ensure that this information is passed on to all employees and contractors with in your organisation.

The following updates are relevant to all technical, field employees and contractors undertaking design, construction and maintenance activities on the CitiPower and Powercor networks.

Technical Standards are available on our [website](#).

All new design and construction proposals commenced after the 11 December 2019 are required to comply with these updates.

If you have further questions, please contact the relevant team member associated with the published documents.

Standard Category	Technical Standard	Description	Overview	Impacted Key Stakeholder/s
<a href="#">D - General</a>	<a href="#">DS501</a>	Distribution Construction Standard - Signage & Labelling - Zone Substation - Standards Nomenclature for Equipment Nameplates	Standard updated to include REFCL neutral bus and 66kV reactor labelling requirements. <b>Contact: Alan Su - (03) 9683 4328</b>	<b>DESIGN CONSTRUCTION MAINTENANCE</b>

Standard Category	Technical Standard	Description	Overview	Impacted Key Stakeholder/s
<a href="#">E - Overhead</a>	<a href="#">EP102</a>	Distribution Construction Standard - Voltage Regulators - Three Phase Two Unit 100 Amp Pole Mount	<p>Technical Standards updated to include gas switches in place of air break switches. Standards also updated to only allow 50A and 100A regulators be pole mounted, 200A and 300A regulators will now only be ground mounted.  <b>Contact: Terry Spitalieri - (03) 9683 4197</b></p>	<b>DESIGN MAINTENANCE CONSTRUCTION</b>
	<a href="#">EP103</a>	Distribution Construction Standard - Voltage Regulators - Three Phase Two Unit 200 Amp Pole Mount		
	<a href="#">EP105</a>	Distribution Construction Standard - Voltage Regulators - Three Phase Two Unit Ground Mount		
	<a href="#">EP106</a>	Distribution Construction Standard - Voltage Regulators - Three Phase Three Unit Ground Mount		
	<a href="#">EP501</a>	Distribution Construction Standard - Voltage Regulators - 200 Amp Pole Mount Assembly		
	<a href="#">EP901-984</a>	Distribution Material Standard - Voltage Regulators		
	<a href="#">ER151</a>	Distribution Construction Standard - ACR Assembly – SWER ACR OCO, 22kV, 40A, Wood Pole	<p>Standards updated to include an eBridge AMI network device and Auxiliary Power Unit (APU).  <b>Contact: Aza Masoudtehrani - (03) 9683 4892</b></p>	<b>DESIGN CONSTRUCTION MAINTENANCE</b>
	<a href="#">ER161</a>	Distribution Construction Standard - ACR Assembly – SWER ACR OCO, 22kV, 40A, Concrete Pole		
	<a href="#">ER901-999</a>	Distribution Material Standard - ACR's, Sectionalisers and Fault Indicators		
Material Change Advice (MCA)	M1-19	<p>Material Change Advice (MCA) - Distribution Transformer Supplier Update  <b>Copy of document attached to email</b></p>	<p>Material Change Advice (MCA) regarding new suppliers of pole and ground mount distribution transformers due to a transformer tender.  <b>Contact: Aza Masoudtehrani - (03) 9683 4892</b></p>	<b>DESIGN CONSTRUCTION MAINTENANCE</b>

<b>LEGEND</b>
<b>HIGH IMPACT</b>
<b>MEDIUM IMPACT</b>
<b>LOW IMPACT</b>

# DS501 – Standard Nomenclature for Equipment Nameplates

## Key changes\*

Release date: 11 November 2019

*\*Please refer to official standard for details*

### What has changed?:

- Technical Standard DS501 has been updated to include signage for REFCL neutral bus and signage for 66kV reactor arrangements.
- Section 5 of the standard has been updated to include typical example layouts and their associated signage.

### Why?:

- As a part of the REFCL rollout, it's been identified that a standard naming convention for the neutral bus, associated switches, cables and instrument transformers needed to be developed.
- Another project also identified that there was a need for a worked example for labelling of 66kV reactors which is also included in this update.

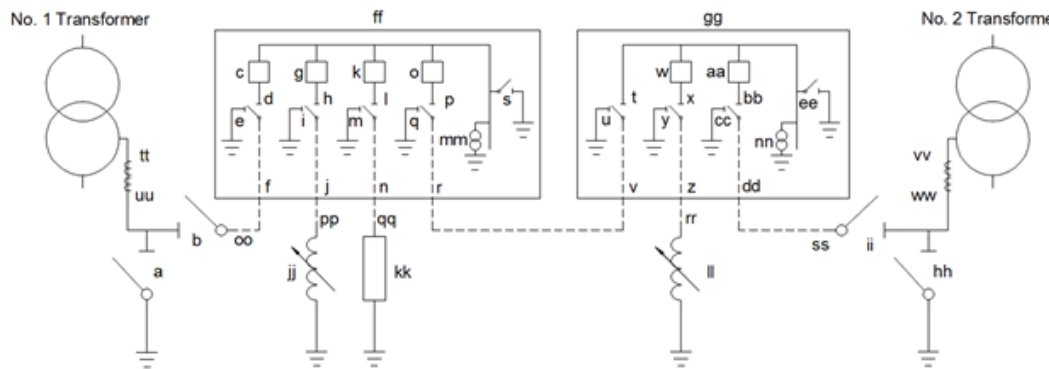


Figure 1 – REFCL neutral bus

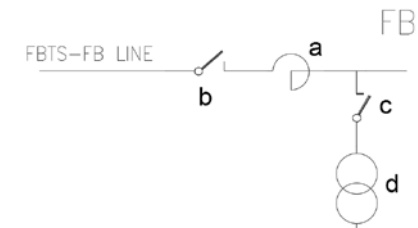


Figure 2 – 66kV reactor

# Standard EP Series – Voltage Regulators

## Key changes\*

Release date: 11 November 2019

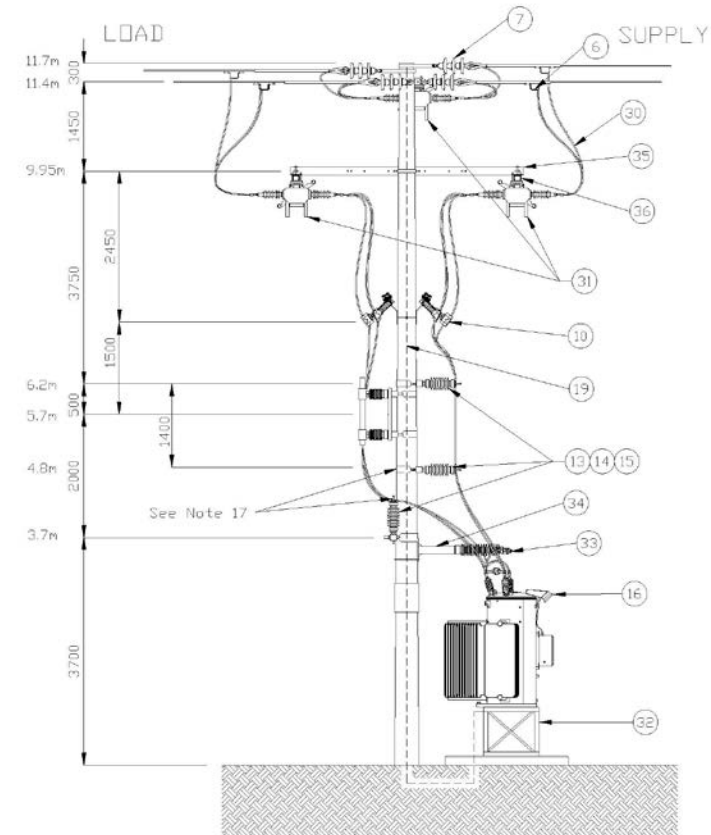
*\*Please refer to official standard for details*

## What has changed?:

- Technical Standard EP102 has been updated to remove the pole mount regulator support platform and include the addition of a gas switch in place of an air break switch.
- Technical Standards EP105 and EP106 have been updated to include gas switches in place of air break switches. The concrete box culvert regulator supports have also been replaced with a steel frame support structure.
- Technical Standards EP103 and EP501 have been updated to become for maintenance only applications and not for new construction

## Why?:

- The main purpose of the standard update was for the replacement of air break switches with gas switches. Gas switches are more reliable and less prone to operational issues
- The concrete box culvert support have been replaced with steel frame supports to provide a more sturdier support structure for the regulators
- EP103 and EP501 are maintenance only due to mounting platform issues as a result of varying regulator designs over the years. It was decided amongst stakeholders that only 50A and 100A regulators will be mounted directly to the pole. 200A and 300A will now only be ground mounted.



# ER – ACRs, FIs and Sectionalisers

## Key changes\*

Release date: 11 November 2019

*\*Please refer to official standard for details*

### What has changed?:

- Technical Standards ER151 & ER161 have been updated to include an eBridge AMI network device and Auxiliary Power Unit (APU)

### Why?:

- An eBridge AMI network device with its associated APU can be used in situations where 3G/4G cellular coverage is not available or weak.
- The eBridge AMI network device uses the SCADA network rather than the mobile network for communication.
- eBridge can be used without an APU in other applications (contact Communication Network group for further information).

