



# A message from Technical Standards



## CitiPower/Powercor Technical Standards Update for April 2021

Please ensure that this information is passed on to all employees and contractors within 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 [Contractor Portal](#).

*All new design and construction proposals commenced after the **12 June 2021** 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)
D-General	<a href="#">DC011</a>	Distribution Construction Standard - Clearances - General Information	<p>Standards updated with limit state design requirements to meet compliance with AS/NZS7000 and align with the Pole Management Improvement Program.</p> <p>New Technical Standards EA031 and EB012 have been created to detail limit state design principles and examples.</p> <p><b>Contact: Madhuka Ganegoda (03) 9683 4267</b></p>	<p><b>DESIGN CONSTRUCTION MAINTENANCE</b></p>
	<a href="#">DC021</a>	Distribution Construction Standard - Clearances - Design Heights & Circuit Separations		
	<a href="#">DC102</a>	Distribution Construction Standard - Clearances - No Go Zone Concept		
	<a href="#">DC111</a>	Distribution Construction Standard - Clearances - Above Ground, Roads, Rails or Water		
	<a href="#">DC141</a>	Distribution Construction Standard - Clearances - Conductors on Different Supports (Parallel Circuits & Unattached Crossing)		
	<a href="#">DC151</a>	Distribution Construction Standard - Clearances - From Buildings and Structures		
	<a href="#">DC161</a>	Distribution Construction Standard - Clearances - Conductors on the Same Support		
	<a href="#">DC181</a>	Distribution Construction Standard - Clearances - Distribution Pole Mounted Substations		
	<a href="#">DC201</a>	Distribution Construction Standard - Clearances - Distribution Pole Mounted Lanterns		
E - Overhead	<a href="#">EA021</a>	Distribution Construction Standard - General Overhead - General Design		
	<a href="#">EA031</a>	Distribution Construction Standard - Overhead - Design Principles		
	<a href="#">EA041</a>	Distribution Construction Standard - Overhead - Line Design		
	<a href="#">EB001</a>	Distribution Construction Standard - Poles - General Information		
	<a href="#">EB012</a>	Distribution Construction Standard - Poles - Limit State Design Examples		

Standard Category	Technical Standard	Description	Overview	Impacted Key Stakeholder(s)
<a href="#">E - Overhead</a>	<a href="#">EF981-998</a>	Distribution Material Standard - Forged Fittings, Straps - Miscellaneous Materials	Standards EF985, Sap 350811, Bridge Assembly, HV LLC has been added to the Material Standard.  <b>Contact: Darren Martini (03) 9683 4738</b>	<b>DESIGN CONSTRUCTION MAINTENANCE</b>
	<a href="#">EK131</a>	Distribution Construction Standard - 66kV, Strain Structure - Wood Pole	Standards updated to include HV wood pole bonding for 66kV structures.  <b>Contact: Aza Masoudtehrani (03) 9683 4892</b>	<b>DESIGN CONSTRUCTION MAINTENANCE</b>
	<a href="#">EK142</a>	Distribution Construction Standard - 66kV, Anchor Structure (60° to 105°) - Wood Pole		
	<a href="#">EK152</a>	Distribution Construction Standard - 66kV, Termination Structure - Wood Pole		

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

# EA021, EA031, EA041, EB001, EB012 and DC series

## Key changes\*

Release date: 12 May 2021

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*\*Please refer to official standard for details*

### What has changed?:

- Technical Standards DC011, DC021, DC102, DC111, DC141, DC151, DC161, DC181, DC201, EA021, EA041 and EB001 have been updated to include limit state design requirements as per Australian Standards AS/NZS7000 (Overhead line design).
- New Technical Standards EA031 and EB012 have been created to detail limit state design principles and examples.

### Why?:

- The standards have been created/updated to comply with AS/NZS7000 and align with the Line Asset Strategy's Pole Management Improvement Program (PMIP).

# EF981-998 Series – HV live line clamp bridge assembly rod

## Key changes\*

Release date: 12 May 2021

*\*Please refer to official standard for details*

### What has changed?:

- Technical Standard EF985 has been created to include the HV live line bridge assembly rod (see figure 1 below).
- The rod is to be used for maintenance purposes only of existing arrangements where this type of bridge assembly rod is installed. These rods may be found on SECV era structures (see figure 2 below).

### Why?:

- Feedback from the Maryborough Depot advised that the material was approved and available within the SAP material system and depot stores but was not documented in the Technical Standards.



Figure 1 - HV live line bridge assembly rod

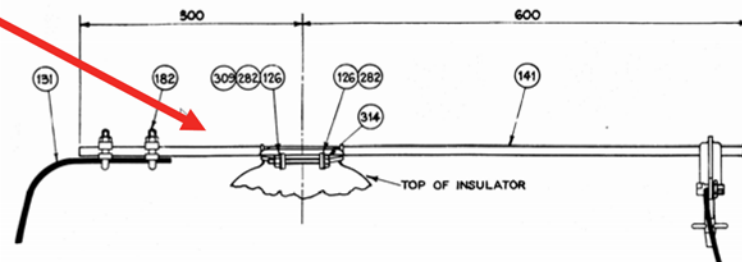


Figure 2 - HV live line bridge assembly rod arrangement

# EK Series – Subtransmission

## Key changes\*

Release date: 12 May 2021

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*\*Please refer to official standard for details*

### What has changed?:

- Technical Standards EK131, EK142 & EK152 have been updated to remove coastal and polluted criteria for the bonding of unearthed metal structures.
- The standards now require all unearthed metal support components of one phase of a sub-transmission circuit, that are installed within 200mm of unearthed metal support components of another phase, to be bonded together irrespective of the geographic location.

### Why?:

- The Technical Standards had been updated several years ago to remove the coastal and polluted criteria for the bonding of unearthed metal structures on 11kV and 22kV structures but was not updated for 66kV (sub-transmission) structures.
- Based on an asset failure investigation report (Disc Insulators & Pole Fires – Yangery, Warrnambool & Strathdownie), a review of the standards related to HV bonding was undertaken. This review determined that the application of HV bonding for 11kV and 22kV structures should also be applied to 66kV structures.