

NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

Certificate No. 02-1508-177

Approval date

06/04/2016

Approved by

GM Technical Standards

Report no.

TAS 02-1508-TM177

Report date

26/08/2015

This certificate is issued to

Supplier

TMAC (Thew & McCann Group)

43-45 Enterprise Street, Cleveland

QLD, Australia 4163

In respect of

Manufacturer

TMAC (Thew & McCann Group)

Product description

TMAC Rail Bonding Clamps

Item identification

Refer to Approved Item List for full details.

Application

ARTC Network Wide

Relevant Standards

SPS 02 Environmental Conditions

ESD-07-02 Track Bonding and Signalling Infrastructure in Electrified Areas

ESD-09-01 Signalling Power Systems

SMP 26 Rerailing - Precautions to be Taken

SMP 27 (RIC Standard SC 00 52 00 27 SI) Traction Return (1500V DC)

Conditions of Approval

- TMAC CLE600 Temporary Rail Clamp Assembly to be ordered by a Team Manager or Signals Work Group Leader. This person shall be responsible for the issue and maintenance of the equipment; and registering it in Ellipse.
- 2. Each Temporary Rail Bond shall be registered within Ellipse the asset register/ maintenance scheduling tool. This will ensure a level of integrity can be achieved such that routine maintenance can be scheduled on a regular basis. All temporary rail bond shall have a unique serialised number, engraved on a stainless steel cable tie tag.



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- 3. For use in accordance with ARTC standards and manufacturer's specification.
- 4. All the temporary rail bonds:
 - a. Must be fastened to the rails before any track is cut. Only one rail can be cut at any one time;
 - b. Are to remain in place and monitored by an appointed officer until the cut rail is replaced and welded;
 - c. May be removed only when the traction return path through the rails is restored;
 - d. Are suitable for use in non-electric traction areas.
- 5. The use of multiple clamps is recommended to ensure the clamps are kept within their rated current carrying capacity. This may require the use of jumpers to secondary clamps.
- Only components from following approved item list may be utilised in accordance with these general conditions and any individually annotated against items on the list.

ARTC reserves the right to conduct its own audit of the manufacture and supply of these components to AS 19011; as part of ARTC's Quality Controller Supplier (ESG-00-15)

Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer should notify ARTC of any modification or changes in order to obtain a valid updated certificate.

Note/Comments

NIL.

Issue date

Issued by

Expiry date

John Furness

ARTC Manager Standards

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Approved Item List

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Catalogue No.	Product Description	Conditions of Use
TM00032	MT0S1E2***TM (PED T-Handle Single, 2m x 95mm², 2x CLE600 Clamps)	PED maximum fault current rating 18kA/0.5 seconds. When two sets or more are used in parallel, the total rating is reduced by 10%.
TM00033	MT0S1E6***TM (PED T-Handle Single, 6m x 95mm², 2x CLE600 Clamps)	PED maximum fault current rating 18kA/0.5 seconds. When two sets or more are used in parallel, the total rating is reduced by 10%.
TM00637	MT0S1E16.0***TM (PED T-Handle Single, 16m x 95mm², 2x CLE600 Clamps)	PED maximum fault current rating 18kA/0.5 seconds. When two sets or more are used in parallel, the total rating is reduced by 10%.

The above TMAC catalogue number consists of:

- CLE600 Rail Clamp (for use on rail between 2 to 25mm);
- 95mm² Braided Copper Cable with clear insulation;
- CU95-13 Lug with clear heat shrink tubing applied over the shank of the cable lug and copper cable for a distance of approximately 200mm both ends;

