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RAILINFRASTRUCTURE CORPORATION

Discipline

Rolling Stock Engineering Standard

Category

Maintenance

Title

Electric Welding of Rolling Stock

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RSS 0024

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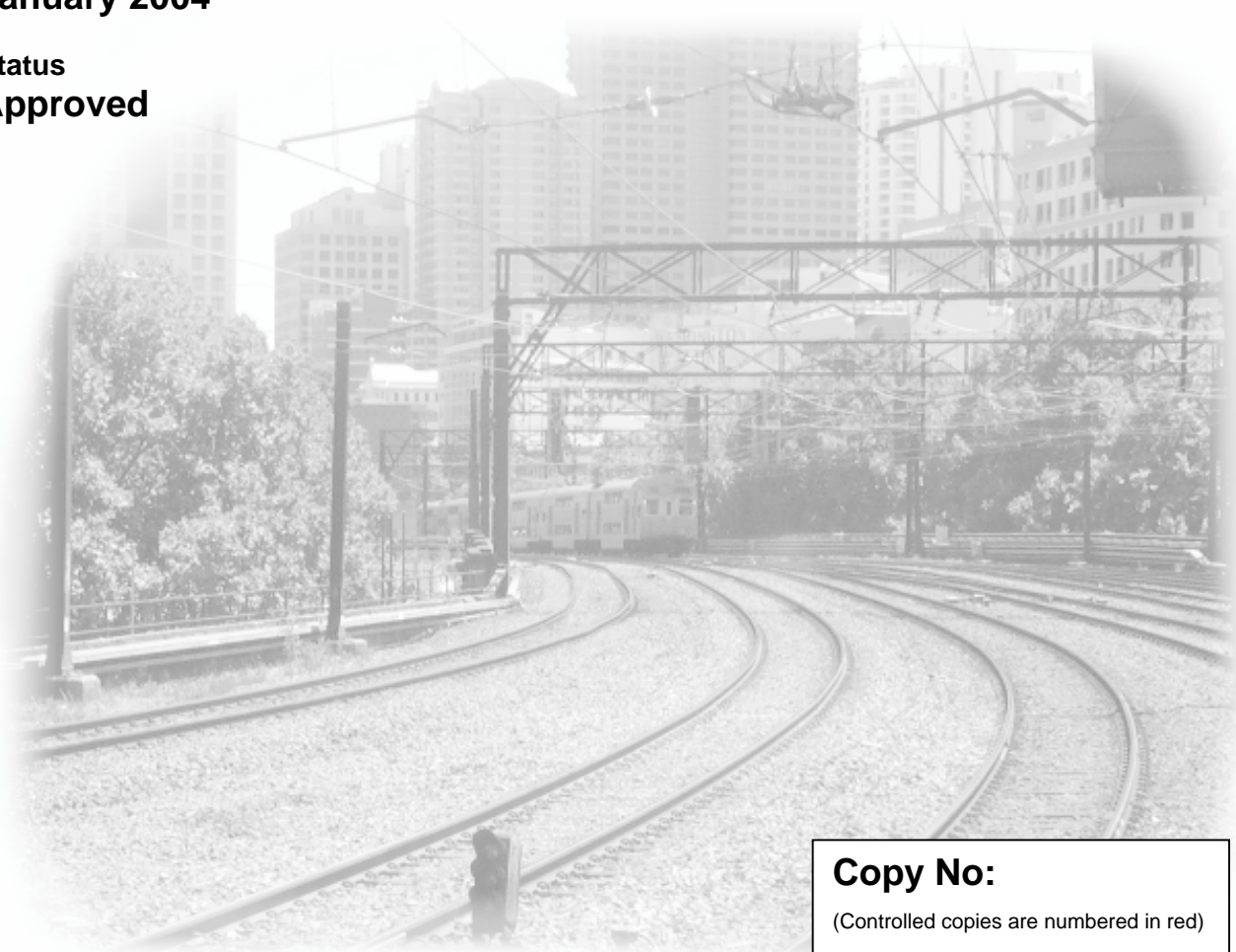
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About This Standard

TRS 1186 replaced Chief Mechanical Engineer's Circular No. 46/82 "welding on Rolling Stock Fitted with Roller Bearing Axleboxes- Work Return Lead to be attached to Vehicle Frame and not to Wheels or Rails.

This standard is based on the following TRS Standard:

TRS 1186 Electric welding of rolling stock.

Version History

Version 1.0

January 2004

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1 Description

To avoid damaging axle roller bearing during welding operations on rolling stock irrespective of magnitude all Supervisors and operators must ensure that work return leads to welding machines are clamped to either bogie frame if welding on the bogie or to the body of the vehicle if welding on the body.

The lead should be clamped as close as practicable to the point of welding, provided the sections of material forming the circuit are of reasonable size.

If the lead is connected to a wheel or the rail the bearing may become part of the welding circuit in which case heavy density surges of circuit will pass through them with the likelihood of damaging the roller faces where points of high resistance may be formed.

High resistance welding return circuits are detrimental to good welding under any circumstances and should avoided if possible.

2 Reference Documents

2.1 RIC Standards