ARTC

NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

Certificate No. NESA - T089

Approval date 30th October 2015

Approved by GM Technical Standards

Report no. 15/16064

This certificate is issued to

Supplier OneSteel
Port Augusta Road
Whyalla, SA, Australia

In respect of

Manufacturer OneSteel

Product description The as-rolled microalloyed rail is an intermediate strength grade with a minimum running surface hardness of 320HB.

Item identification Intermediate strength, as-rolled microalloyed rail grade for in-service testing only.

Application The trial will involve installation of several rail strings containing a combination of as-rolled microalloyed rail and head hardened plain carbon rail at a location in the Hunter Valley coal network. The area, scheduled for rerailing in 2015/16 is a 704m radius, 1160m long curve between 247.377km and 248.543km.

Relevant Standards AS1085.1-2001, AS1085.20-2012

Conditions of Approval

1. Supervision of the welding process during manufacture of the test string(s) to ensure the correct configuration of rail type and length is used.
2. Supply of QA documentation and test certificates of the test strings.
3. Supervision of the test site during installation and recording installed geometry.
4. Initial measurements, inspection, and non - destructive testing of the strings including welds immediately after installation.
5. Subsequent measurements, inspection and testing 1 month, 3 months, 6 months, 12 months, 18 months and 24 months after installation to assess rolling contract fatigue damage , surface checking , wear rate and welds performance.
6. Removal of dip welds and rail defects identified in the test strings and additional rail grinding if become necessary.
7. Replacement of the test strings if the long term performance, integrity, or maintainability become unsatisfactory
8. Complying with the test plan provided to ARTC
9. Presenting / Training of maintenance and welding staff of the

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changes to the current welding and maintenance procedures.

10. Identifying and advising of any changes required to the current TMP
11. Reporting of inspection, test, measurement, and monitoring results, as outlined in the test plan
12. Supply of a project management plan

A general condition of approval is that the supplier remains accredited to ISO 9001 specifically for these products and ARTC is advised on a 12 monthly basis that accreditation is current. ARTC reserves the right to conduct its own audit of the manufacture and supply of these components to AS 19011.

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 certificate.

Note/Comments

Issue date	20/01/2016	**Expiry date**	N/A
Issued by		**John Furness** **ARTC Manager Standards**	