

Form number: PP122F-01

NEW EQUIPMENT & SYSTEM APPROVAL PROFORMA

Ref: 08-08-11-087

Note: the prompts given below are only a guide to the information required for approval. Dependent on the type of equipment or system that requires approval delete any section that is not applicable or include additional information if necessary. Mandatory fields are marked with an asterisk (*).

1 Equipment or System to be approved *

Thermit SKV-Elite Single Use Welding Process

2 Originator *

Name:

Wayne Potter

Company:

ARTC

3 Introduction *

The SKV-Elite Single Use Welding Process had previously been approved under a waiver pending tests to be carried out to satisfy the updated Australian Standard AS1085.20.

4 Determination of Need *

The single use crucible welding method is becoming used more frequently by ARTC track maintainers. The demand for this product has increased and the product range has become more diversified.

5 Significant Change or Not (as determined by the Manager Standards) *

This change in equipment or system is assessed as MINOR

- 6 Review Panel (as determined by the Manager Standards) *
 - · John Furness Manager Standards
 - Wayne Potter Civil and Environmental Standards Engineer
 - Tim Calver Standards and Technical Services Engineer
- 7 Safety
 - · Welding is to be carried under the conditions stated in the ARTC OH&S and Drug and Alcohol Policies.
 - Appropriate Personal Protective Equipment is to be used -refer to Thermit Code of Practice provided as Appendix E.
 - Transport and storage of weld consumables shall be in accordance with AS1085.15.

8 Performance and Suitability

Thermit have supplied a report which demonstrates how the SKV-Elite Single Use Crucible welding process meets the requirements of AS1085.20. – 2006 Railway track material – Welding of Steel rail. Refer to attachment for more detail.

(i) Use in other rail networks

QR and Railcorp both use Thermit Single use crucible methods and consumables.

(ii) Use in the ARTC network

ARTC have previously used Thermit single use crucible method successfully on its network, more so in NSW.

(iii) Issues arising from usage of the equipment/system

No foreseeable issues, provided manufacturer's and OH&S procedures are adhered to.

(iv) Changes required to infrastructure or systems for use of the equipment

ARTC's Engineering Practice Manual, RTS 3602 will need to be updated to include the new Thermit Single Use Crucible portions in this approval.

9 Approval *

Version 1.1

The following weld portions are approved for use on the ARTC Network:

AS60 Skv-Elite Z90 SU

AS53 Skv-Elite Z90 SU

AS50Skv-Elite Z90 SU

AS47 Skv-Elite Z90 SU

AS41 Skv-Elite Z90 SU

AS60 Skv-Elite Z110 SU

AS60 Skv-Elite Z100 SU

AS50 Skv-Elite Z110 SU

AS50 Skv-Elite Z100 SU

AS41 Skv-Elite Z70 SU



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10	Conditions of Approval *						
	No conditions						
	<< NOTE: Review Panel may add additional Conditions of Approval>	>					
11	Does the Originator accept the additional Conditions of Approval as set by the Review Panel:	Yes		No		N/A	
12	Sign off ARTC office use only						
	Review Panel:				11		
	John Furness Millionen		Date:	19	10/0	7	
	Wayne Potter		Date:	161	10/07	7	
	Tim Calver		Date:	17	1000	7	