AUSTRALIAN RAIL TRACK CORPORATION

INFRASTRUCTURE, STRATEGY AND PERFORMANCE

Engineering Standards and Documents

The following recommendation, together with the attached supporting documentation, has been considered at the ARTC Manager Safety & Systems on 25th September 2006.

Documents:

Ref No:	**08-08-10-034 -** Systems & Equipment Approval
Subject:	'Westinghouse Signals Australia' Points Machine M3A
Dated:	26th April 2006.

Prepared By: Arthur Haberlin, Signal Engineer - Equipment
Endorsed by: Trevor Moore, Signal Standards Engineer

Items Considered for Approval:

Manufacturer:	Westinghouse Rail Systems Australia.
Product:	Point Machine (M3A)
Item Identification:	See list **02-0604-023a**.

The items in the form they were presented at the review date were approved for System & Equipment Approval to be used on all ARTC jurisdictions in accordance with the manufacturers published performance criteria and subject to the following.

Relevant ARTC Specifications:

Ref. No.	Title	Status	Date
SPS 02	Environmental Conditions	Issue1 Revision 2	May '05
SPS 16	Point Mechanisms	Issue 1 Revision 3	May '05

Specific Conditions of Approval:

i.	May only be used where all train movements through the points in a trailing direction are carried out either under the authority of the interlocking equipment or after a suitably qualified person has manually set the points in the correct position.
ii.	Retention, release and indexing of crank handles for manual operation of M3A point machines shall be in accordance with separately approved mechanical designs and procedures.
iii.	For use in accordance with ARTC specification SDS 25 – 'Circuit Design Standards' and standard typical circuits only.
iv.	Only components from the list in **02-0511-015a** may be utilised.

Certificate Issued to:

Westinghouse Signals Australia
179-185 Normanby Rd.
South Melbourne Vic. 3205

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 19011:2003.

Any subsequent change to the design, materials or manufacturing process is not covered by this approval.

Approved for use in the ARTC.

John Cowie
Manager Standards & Systems

APPROVAL No: 08-08-10-034

AUSTRALIAN RAIL TRACK CORPORATION LTD

Ref No: 01-0604-023a
Date: 20th April 2006

Equipment Type Approval
Subject: 'Westinghouse' Points Machine (M3A)

The following lists the individual types (by catalogue number) of type M3A Points Machines manufactured by Westinghouse Rail Systems Australia (WRSA) which are type approved for use in signalling circuits on ARTC infrastructure under Type Approval Certificate **08-08-10-034** subject only to any conditions shown on that Certificate and the Conditions of Use shown against individual types.

Catalogue No.	Motor Supply	Designation / Configuration	Conditions of Use
M31376	110v AC	M3A No internal contactor.	¶
M31377	110v AC	M3A Single Detection.	¶
M31504	110v AC	M3A	¶
M28866	110v DC	M3A	@ Non-indexed crank handle.
M29373	110v DC	M3A	@ Crank handle indexed A-D
M29374	110v DC	M3A	@ Crank handle indexed A-E
M29375	110v DC	M3A	@ Crank handle indexed A-F
M29376	110v DC	M3A	@ Crank handle indexed A-G
M29377	110v DC	M3A	@ Crank handle indexed A-H
M30830	120v AC	M3A	¶ Non-indexed crank handle.
M30830Ax	120v AC	M3A	¶ x to be substituted with a letter in the range D to M specifying the required crank handle index.

¶: May be used only in areas where running rails carry no AC traction current.

@: May be used only in areas where running rails carry no DC traction current.