



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:	08-08-10-033 - Systems & Equipment Approval
Subject:	'Westinghouse Signals Australia' Points Machine 84M
Dated:	20 th 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 (84M)
Item Identification:	See list 02-0604-025a .

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. 84M point machines must drive a separately approved 'rail head locking mechanism' when applied to points over which movements in the facing direction may take place.
- ii. Fitting of any additional external key operated lock to secure manual operation levers shall be undertaken in accordance with separately approved mechanical designs and/or production process.
- iii. For use in accordance with ARTC specification SDS 25 – 'Circuit Design Standards' and standard typical circuits only. Note the 84M does not itself provide detection of the 'rail head locking mechanism' locking function.
- iv. Only components from the list in 02-0511-015a may be utilised.

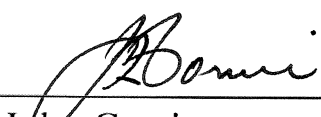
Certificate Issued to:

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: 08-08-10-033



AUSTRALIAN RAIL TRACK CORPORATION LTD

Ref No: 01-0604-025a

Date: 20th April 2006

Equipment Type Approval

Subject: ‘Westinghouse’ Points Machine (84M)

The following lists the individual types (by catalogue number) of type 84M 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 **08-08-10-033** 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
1335101301	110/120v AC	84M Mk111	¶
1335101302	110v DC	84M Mk111	@
1335101401	110/120v AC	D84M MK111 Dual-Control	¶
1335101402	110/120v AC	D84M Mk111 Dual-Control	¶ May be used to drive Swing-Nose Crossings.
1335101408	110v DC	D84M Mk111 Dual-Control	¶@ May be used to drive Swing-Nose Crossings.
1335101406	24v DC	D84M Mk111 Dual-Control	@
1335101407	24v DC	D84M Mk111 Dual-Control	@ May be used to drive Swing-Nose Crossings.
1335101404	24v DC	D84M Mk111 Dual-Control	¶@
1335101409	24v DC	D84M Mk111 Dual-Control, Shorting Detection	¶@
1335101501	110/120v AC	T84M Mk111 Trailable	¶
1335101601	110/120v AC	TD84M Mk111 Trailable, Dual-Control	¶
1335101603	24v DC	TD84M Mk111 Trailable, Dual-Control	@
1335101602	24v DC	TD84M Mk111 Trailable, Dual-Control	¶@

¶: 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.