WAKA KOTAHI
NZ TRANSPORT AGENCY

Section I-19: Register of TTM equipment approved for use on NZ roading network

14 AUGUST 2022

VERSION 3.4

New Zealand Government

More information

If you have further queries, call our contact centre on 0800 699 000 or write to us:

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Wellington 6141

This document is available on the Waka Kotahi's website at http://www.nzta.govt.nz

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Version control

Version	Date	Comments
Version 2.1	2 October 2018	Added version control Amended details for **BARTCO Solar & LED Portable Traffic Light Signals Model CS – 200** • Added date for extension of validity • Added endorsement as per Schedule C – BTLC100 Controller
Version 2.2	16 October 2018	Added xNet to register
Version 2.3	20 November 2019	Added eStop to register
Version 2.4	9 December	Added PORTABOOM to register
Version 2.5	17 April 2020	Added guidance on trial/field tests and Waka Kotahi contacts for these
Version 2.6	12 October 2020	Amended register to reflect Highway 1 as supplier of Horizon Multi-Signal Type 26420
Version 2.7	5 November 2020	Added Quick Set portable traffic signal
Version 2.8	11 August 2021	Added Highway1 Ltd: Portable Traffic Signals TPTL-PTSS-01_NZ
Version 2.9	15 September 2021	Added Harvest Electrical: Portable Stop/Go Traffic Signal
Version 3.0	14 October 2021	Manual for Vanguard LowPro 2305 Road Plate updated Amended contact details for equipment acceptance process
Version 3.1	19 October 2021	Added Optraffic Boom Gate (Highway 1) to register
Version 3.2	9 May 2022	Removed Data Signs PTL
Version 3.3	29 June 2022	Added Traffic Systems Ltd model ST-PS5 to portable traffic signals

Version 3.4	4 August 2022	Re-instate Data Signs PTL

Process to register new TTM equipment for use on NZ roading network

Waka Kotahi maintains a register of new TTM equipment that has been approved for use on the roading network within New Zealand.

To gain approval for TTM equipment to be added to this register the supplier must:

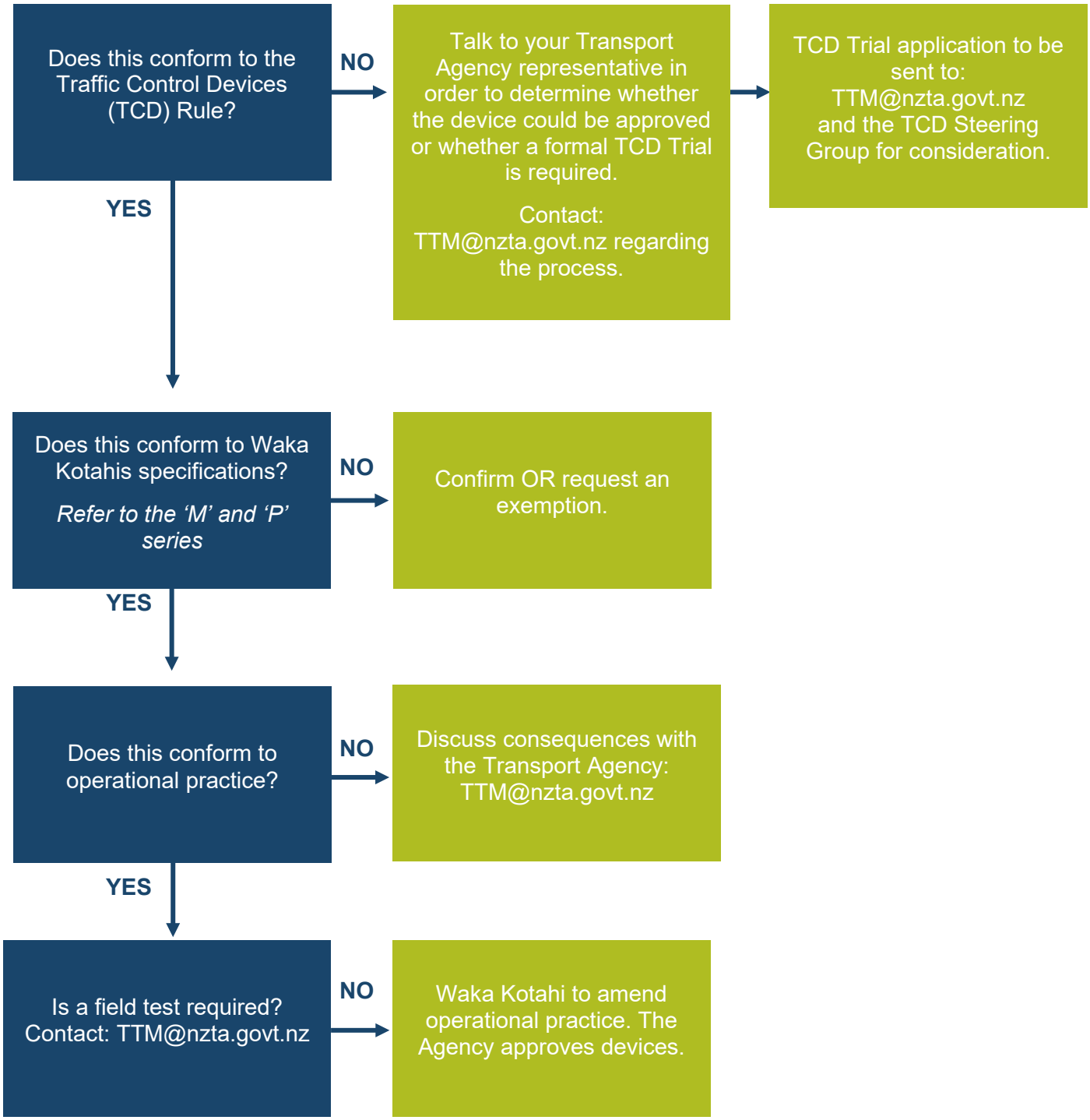
Action	Comments
Provide evidence of safe and reliable operation of the TTM equipment	• Evidence can be obtained from: – Existing research – Conducting of trials (approved by NZTA) *For more information refer to **Guidance on trial/field test** on the following page*
Confirm that the TTM equipment meets relevant requirements as detailed in the TCD Rule	• Sometimes this confirmation will require testing by the NZTA approved laboratory (eg portable traffic signals) *For more information refer to **Guidance on trial/field test** on the following page*
Provide a detailed Operator Guide	• Operator guide to include: – Safe operation of the equipment – Installation and removal procedures (if required) – Any specific TTM requirements

The process on the following page provides further guidance on whether a trial or a field test will be required and who to contact about this.

GUIDANCE ON TRIAL/FIELD TEST

This procedure is designed to clarify the process for requesting approval to use new TTM equipment on the NZ roading network.

Example: New temporary traffic light system



Register of new TTM equipment approved for use on NZ roading network

Stop/Go temporary traffic control system

Product	Supplier	Contact details	Operator guide
RoboSign *(Remote controlled Stop/Go temporary traffic control system)*	CSP Pacific	0800 655 200 www.csppacific.co.nz	Operator Guide: RoboSign Stop/Go Traffic Control System
The Gibney *(Stop/Go barrier arm for positive traffic management)*	Fulton Hogan – Signs & Graphics	0800 274 463 signs@fultonhogan.com	The Gibney Operators Guide
PORTABOOM *(Tower and boom arm displaying Stop sign)*	Traffic and Access Solutions	1300 329 738 info@trafficaccess.com.au	PORTABOOM Site Operational Instructions
Highway1 Boom Gate *(Tower and boom arm displaying Stop sign)*	Highway1 Ltd	Highway1 Ltd 0800 175 571 info@highway1.co.nz	Highway1 BOOM GATE Manual 2021 NZTA Final V2.3

Speed humps

Product	Supplier	Contact details	Operator guide
TO70-2 *(Portable speed hump)*	RTL	RTL Auckland - 09 259 2600 RTL Wellington - 04 232 3774 RTL Christchurch - 03 336 0086 RTL Invercargill - 03 211 0300	Operator Guide: NZTA conditions - Speed Hump

Road plates

Product	Supplier	Contact details	Operator guide
Road plate – LowPro 23/05	Vanguard	7 Peterkin Street, Wingate, Lower Hutt PO Box 38055, Wellington Mail Centre 5045 0800 500 147 info@vanguardgroup.co.nz vanguardgroup.co.nz	Operator Guide Vanguard LowPro 2305 Road Plate

Portable Traffic Signals

Introduction

All portable signal systems are to comply with the Australian Standard AS 4191- 1994. A list of compliant systems is attached.

Implementation

Contractors are required to apply to the Road Controlling Authority (RCA) to use portable signal systems. Application must be made on the Traffic Management Plan (TMP) and the details of the system must be provided in the other information section of the TMP. The representative of the RCA must ensure that the system is listed as compliant before signing off the TMP.

Future Approvals

New systems can be tested to AS 4191-1994 standards at either a qualified independent Australian Laboratory, or at OPUS Central Laboratories, Petone New Zealand. New approvals will be added as they pass testing. Testing is to be undertaken at own expense.

For details of testing or to have a portable signal system tested apply to:

TTM@nzta.govt.nz

Approved Traffic Signal Systems – as 4191 – 1994 Compliant

NZTA Reg No.	Signal System Name	Manufacturer or supplier	Approving Laboratory or Authority	Date of Approval	Comment
1	**Sykes Safeway Portable Traffic Signals**	Sykes Pumps Australia	Vicroads Cert 1977 - 16	1 - Dec - 97	
	Sykes Safeway Portable Traffic Signals	Sykes Pumps Australia	RTA NSW 9504 - PTS3AR1 - 0 - 1	26 - Sep - 97	
2	**BARTCO Portable Traffic Signals Model no. BTEPTS**	Bartco Traffic Equipment Pty Ltd	Allan Woodward Consultancy Services	25 - Oct - 05	
	BARTCO Solar & LED Portable Traffic Light Signals Model CS -200	Bartco Traffic Equipment Pty Ltd	RTA NSW 0807 - PTS3AR1 - 0 - 1	4 - Jul – 08 19 Mar 2014 Approval validity extended by five years 6 Feb 2015 Endorsement as per Schedule C – BTLC100 Controller	

NZTA Reg No.	Signal System Name	Manufacturer or supplier	Approving Laboratory or Authority	Date of Approval	Comment
3	**A1 Roadlines Portable Traffic Light Signal System Model No. PTC - 1000**	A1 Roadlines Pty Ltd	RTA NSW 0005 - PTS3AR1 - 0 - 1	18 May 00 Endorsements 17 - Jan - 05 1 - Feb - 05 9 - Mar - 05	Extended to include a solar Model and a CS200 Controller.
4	**Temporary Traffic Signals MPB4000**	International Safety Products	Opus International Consultants, Central Laboratories, Lower Hutt report 528024.00	27 - Apr - 07	Extended to include use of remote controller.
5	**Harding Traffic Systems modified LZA 500 Traffic Signals**	Harding Traffic Signals	Opus International Consultants, Central Laboratories, Lower Hutt report 528024.05	Interim Acceptance July 2011 expiring 31 Dec 11 Approval from 1/1/2012	The signal system is composed of a Adolf Nissen Elektrobau CmbH, model LZA 500, as modified by Harding Traffic Systems, the Nissen signal lanterns have been replaced with Aldridge Traffic Signal Lanterns (Aldridge Traffic Signals Pty ltd, model 2000, part No. RA553. Note: This system does not include remote manual control.

NZTA Reg No.	Signal System Name	Manufacturer or supplier	Approving Laboratory or Authority	Date of Approval	Comment
7	**Peter Berghaus MPB 3200 and 3400 traffic signals**	International Safety Products NZ Ltd (trading as Peter Berghaus NZ)	Opus International Consultants, Central Laboratories, Lower Hutt Report Ref No. 528024.08 Dated September 2013	Acceptance September 2013	
8	**Traffic Signs NZ Ltd, Model: Smart Switch Vehicle Activated (SSVA)**	Traffic Signs NZ Ltd P:07 575 0505	Opus International Consultants, Central Laboratories, Lower Hutt Report Ref No. 528024.13 Dated July 2016	1 July 2016	The system is capable of manual, fixed-time and vehicle-actuated modes of operation. At this time, the SSVA is only a two signal system, with the signals communicating with a radio (wireless) link (Maximum Site Length 2 km). Note: In this system, the fixed-time mode uses the radio link to keep the signal sequence synchronised (unlike many other systems, where fixed-time mode is intended for use when there is no link between the signals).

NZTA Reg No.	Signal System Name	Manufacturer or supplier	Approving Laboratory or Authority	Date of Approval	Comment
9	**Horizon Multi-Signal Type 26420**	Highway 1 Ltd 0800 175 571 frontdesk@highway1.co.nz	Opus International Consultants, Central Laboratories, Lower Hutt Report 528024.14	Final Approval: March 2017	Section 3.2 requires the maximum site length to be taken as that as measured by the Assessment Agency (Opus). This was measured as 700m with a clear line of sight between the signals – at greater separations radio communication was intermittent. **This system must not be applied over 700 metres.**
10	**eStop**	Fulton Hogan Signs & Graphics 0800 274 463 signs@fultonhogan.com	Opus International Consultants, Central Laboratories, Lower Hutt Report 528024.15	Final Approval: November 2019	eStop Operator guide
11	**Traffic Signs NZ Ltd, Model: Quick Set Light Weight Portable Traffic Lights**	Traffic Signs NZ Ltd P:07 575 0505	WSP New Zealand Limited – Research and Innovation Centre - Petone Project ref No. 5-28024.16	9 October 2020	Quick Set Operator manual
12	**Highway1 Ltd: Portable Traffic Signals TPTL-PTSS-01_NZ**	Highway 1 Ltd 0800 175 571 frontdesk@highway1.co.nz	WSP New Zealand Limited – Research and Innovation Centre - Petone Project ref No. 5-28024.24 Dated February 2021	2 March 2021	

NZTA Reg No.	Signal System Name	Manufacturer or supplier	Approving Laboratory or Authority	Date of Approval	Comment
13	**Harvest Electronics: StopGo Portable Traffic Lights**	Harvest Electronics +64 6 370 1991 Harvest.com	WSP New Zealand Limited – Research and Innovation Centre -Petone Project ref No. 5-28024.19 Dated July 2021	29 July 2021	Harvest STOP/GO Traffic System Manual and Troubleshooting Guide
14	**Traffic Systems Ltd Model ST-PS5 portable traffic signal**	Traffic Systems Limited	WSP 33 The Esplanade Petone Reference no: 5-28024.21 Dated April 2022	May 2022	
15	**Data Signs PTL-300**	Fulton Hogan Signs & Graphics 0800 274 463 signs@fultonhogan.com	Steve Jenkins & Associates Factory Two, 21-29 Railway Ave, Huntingdale, Vic, 3166, Australia	August 2022	

Vehicle Arrest Systems

Product	Supplier	Contact details	Operator guide
xNet	QinetiQ	**QinetiQ** Cody Technology Park, Ively Road, Farnborough, Hampshire GU14 0LX United Kingdom Tel +44(0) 01252 392000 customercontact@QinetiQ.com www.QinetiQ.com **AMA** Jim Bernhard Engineering Manager, Auckland Motorways DDI +64 9 539 9141 M +64 27 477 9508 jim.bernhard@ama.nzta.govt.nz aucklandmotorways.com	User manual - X-Net ® 3T(LH) Vehicle Lightweight Arresting Device AMA SOP 10 TTM020 X-Net Vehicle Arrest System Deployment

Miscellaneous items

Product	Supplier	Contact details	Operator guide
Wedgee	Abstract Designs	**Abstract Design** 17 Petone Ave Petone Wellington M +64 27 248 9441 chrisbaxter@xtra.co.nz	Wedgee Operation Instructions

Other categories and products to be added to the register as they are approved