



This Interim Certificate is issued to Applicant:
Site 20/20,
24 Akerley Blvd #1,
Dartmouth,
NS B3B 1J3,
Canada

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Applicant's Original Objectives for the Product

The Guardian Smartflagger is a fit-for-purpose, remotely operated Traffic Control Device (TCD) which was primarily designed and developed to be used at locations / in situations where a traditional STOP/SLOW bat would be adopted as the default solution. The device is intended mainly for use on low volume, local road sites where traffic is controlled to 40 km/h.

The product has the primary safety objective of locating the Traffic Controller (TC) away from live traffic, thus significantly reducing the risk of being struck by any offpath or errant vehicle.

The original version of the device was used in Canada and US in 2016/7 and has been used successfully since, such that at the time of the Application it was reported that over 1,000 units were in operation. A slightly modified version of the device has been developed for Australian usage – basically to cater for road users driving on the left-hand side of the centreline - and it is this version that has been the subject of the TIPES evaluation.

Operational Guidance Documents

The Applicant has prepared a suite of guidance documents relating to the Australian version of the device and its usage. These were reviewed as part of the TIPES assessment, and this Interim Certificate is issued with the condition that the latest version of the guidance documents be obtained and followed by all users of the device, except where local controls and conditions apply.

The suite of documents includes:

- An umbrella decision tree, which establishes a riskbased hierarchy for the selection of the most appropriate device from a range of TCDs, based on the characteristics of the site and the roadworks to be undertaken. The decision tree reaffirms the use of the Guardian SmartFlagger where a STOP/SLOW bat would have historically been the default selection.
- An Operator's Guide (User Manual).
- Proposed standard traffic management layouts.

Road Agency Approval and Local Controls and Conditions

This Interim Certificate is issued on the condition that all pertinent state and local road agency controls and conditions are satisfied with respect to the selection, prior approval, deployment, and usage of TCDs (generally) and the Australian version of the Guardian SmartFlagger (specifically, e.g. incorporation of a 'STOP' sign on the gate arm as opposed to the flag, and/or three-phase traffic signals).



Scope of Interim Certificate

This Interim Certificate is issued in respect of the Australian version of the Guardian SmartFlagger (the Product) only, that is used as a TCD. The devices are most typically operated in pairs. The photograph immediately below demonstrates the Australian version of the Guardian SmartFlagger in a 'closed' (traffic stopped) configurations, but without signals deployed.



Photograph acknowledgement: Site 20/20

Issued: 14 December 2023

Review: 3 months from date of issue -

14 March 2024

Nigel Powers,

Governance Manager,

TIPES

Paul Hillier, Principal Professional Leader, NTRO Certification

This Interim Certificate under the Transport Infrastructure Product Evaluation Scheme (TIPES) is issued by NTRO Certification, a dedicated business unit of NTRO, on the condition that compliance is ultimately achieved with the conditions stated. The Product was assessed by an expert Product Evaluation Panel (PEP) as being fit for its intended usage provided that it is used and maintained as set out in the original application and in accordance with latest user guidance and applicable state and/or local road agency traffic management protocols and requirements.



THIS INTERIM CERTIFICATE INCLUDES A SUMMARY RELATING TO THE ORIGINAL:

- Key factors relating to compliance with TIPES requirements
- Evaluation of Applicant's claims
- Assessment of typical applications and operational guidance, as set out in the documentation provided by the Applicant at that time.

KEY FACTORS ASSESSED:

Factor 1 – The foreseeable effectiveness of Guardian SmartFlagger as a TCD in Australia with consideration of the Applicant's objectives for the device.

Factor 2 – The Applicant's claimed benefits of the device's operation.

Factor 3 – The validity of testimonials and details / case studies of past usage of the original and Australian version of the device at roadworks sites and environments identified within Canada, USA and Australia respectively.

Compliance with operational guidance for users and state and/or local road agency controls and requirements is required, by all users of the device as introduced on Page 2 of this Certificate.

PRODUCT QA

The proponent's document 'T1 Compliance Matrix', submitted with the original application details the Quality Assurance requirements for the product's manufacture and subsequent performance.

AUSTRALIAN TECHNICAL DOCUMENTS

- Australian Standard AS 1742 (various parts) Manual of Uniform Traffic Control Devices.
- Austroads Guide to Traffic Management series.

Original Technical **Evaluation and Opinion**

The original technical evaluation of the original (Canada/US) and Australian versions of the device was conducted between March 2021 and December 2023 by ARRB Group Ltd / NTRO in accordance with the TIPES Guide for Applicants and Terms and Conditions (2020 edition).

The technical opinion of the TIPES Product Evaluation Panel (PEP) is that the Australian version of the Guardian Smartflagger is an effective, remotely operated TCD, which is totally consistent with the Applicant's highly specific stated objective for the device (as set out on Page 2 of this Certificate).

The PEP's opinion was that the Applicant had successfully demonstrated that the Australian version of the device is a practical solution which would reduce the risk to a Traffic Controller of an impact with live traffic, when compared to operating a STOP/SLOW bat. This was supported by substantiated advice provided by the Applicant that the original version of the device has been utilised successfully over a period of 6-7 years in Canada and USA and has been formally approved by various state road agencies and that over 1,000 devices were in use at the date of the original Application. The PEP was satisfied that fine-tuning to the device to create the Australian version was effective, such that it was trialed successfully in Australia on low volume roads in Victoria in October 2023. The device was well received by operational staff during the trial. This does not obviate any local condition requiring the provision of a 'STOP' sign on the gate arm and/or three, as opposed to two, phase traffic signals.



Special Conditions of Interim Certification

- 1. Interim Certification is issued expressly subject to the following conditions:
 - a) The PEP through the TIPES Governance Board has exercised the right to request that a field observance be undertaken by a nominated member of the PEP within 3 months of the issue of this Interim Certificate to confirm the previous findings of the PEP and make a recommendation as to the issue of a Full Certificate.
 - b) Full TIPES certificates are subject to a review every three years.
 - c) Summary record be kept by all users of each application of the Australian version of the Guardian Smartflagger within Australia. The record shall include location descriptor (name, location etc.), type of road (motorway, state road, local road, private road etc.), involvement of subcontractors, and any incidents. In addition, records of any internal reviews of the device should also be maintained and made available to the TIPES Governance Board upon request.
 - d) The Technical Opinion of the PEP is issued in respect of the Australian version of the Guardian SmartFlagger only, being the local version of the Product originally submitted for evaluation under TIPES by Site2020 in March 2021. It is expressly restricted to the Australian version of the Product having the composition, features and characteristics when submitted for TIPES evaluation. This Technical Opinion is not applicable to, or valid in respect of, the original Canadian / USversion of the device or any subsequent modification, variation, enhancement, or redevelopment of the Product that significantly alters its objective and/ or primary usage, and any representation that this Technical Opinion is referrable to any other product is expressly forbidden.

 This Interim Certificate (and any subsequent Full Certificate awarded) and the Technical Opinion expressed have been issued solely in respect of the Product identified by the Applicant as the Australian version of Guardian Smartflagger, originally submitted for product evaluation under TIPES by the Applicant in March 2021.



General Conditions of Certification

- This Interim Certificate (and any subsequent Full Certificate issued):
 - a) Relates only to the product/device that is named and described on Page 2 and is expressly limited to the product having the composition, features and characteristics as submitted to ARRB Group Ltd (now NTRO) for TIPES evaluation.
 - Is not applicable to, or valid in respect of, any subsequent significant modification, variation, enhancement or redevelopment of the product/device.
 - Any representation that this certificate is referable to any other product is expressly forbidden.
 - b) Is valid only within Australia.
 - c) Must be read and applied in its entirety.
 - d) Is copyright to NTRO and is the sole and exclusive property of NTRO
 - e) Is licensed solely to the Applicant for the promotion or sale of the Product by the Applicant and use of it may not be sub-licensed by the Applicant who may not authorise its use to any other person or entity for any purpose whatsover.
 - f) Is governed by the laws of the State of Victoria, Australia and the jurisdiction of the courts of that State and courts of appeal therefrom.
- References to publications, documents, specifications, legislation, regulations, standards, and other documents in this Interim Certificate are where relevant, references to the current versions or issues of those documents at the date of issue, revision or renewal of this Certificate, unless otherwise stated.

- 3. Unless otherwise cancelled or modified by NTRO, this Interim Certificate remains valid for a period of 3 months from issue provided that the Product and its manufacture and/or fabrication, including all related documentation and relevant parts and processes thereof:
 - a) Are maintained at or above the levels which have been assessed and found to be satisfactory by NTRO.
 - b) Are checked as and when NTRO considers appropriate under arrangements that it will determine.
- 4. This Interim Certificate has been prepared by NTRO at the request of, and for the benefit of, the Applicant. Interested parties should obtain independent professional advice about use of the product for any specific application.
- NTRO has no liability whatsoever for any loss or damage, whether direct or indirect, suffered by any person arising from the use of the product by that person in reliance upon the content of this Interim Certificate.



General Conditions of Certification (Cont.)

- 6. NTRO provides no warranty concerning:
 - a) The existence or ownership of any patent, intellectual property or similar rights subsisting in the product.
 - b) The rights of the Applicant to manufacture, supply, install, maintain, or market the product.
 - c) Any works and constructions in which the product is installed, including their nature, design, methods, performance, workmanship, and maintenance.
 - d) Any loss or damage, including personal injury, howsoever arising in connection with the product, including its manufacture, supply, installation, use, maintenance, and removal.
- 7. Any information relating to the manufacture, supply, installation, use, maintenance, and removal of the Product which is contained or referred to in the Interim Certificate is the minimum required to be met when the product is manufactured, supplied, installed, used, maintained, and removed. Such information does not in any way restate the requirements of the Australian Work Health and Safety (WHS) Act applicable at the time of issue of this Interim Certificate, nor is it descriptive of any legislated or common law obligation or duty in operation at the date of issue, revision or renewal of this Interim Certificate. Conformity with such information shall not amount to satisfying any statutory or common law duties or obligations.
- The NTRO Certification and TIPES logo(s) & symbol(s) use are governed by NTRO and form part of this Interim Certificate.