



AUSTRALIAN RAIL TRACK CORPORATION

Certificate No.: **S 05-2814-144**

NEW EQUIPMENT & SYSTEM APPROVAL CERTIFICATE

Approval date: 7 April 2014

Approved by: Operations Safety & Environment
Review Group

Report no.: TAR-05-2814-SA144

Report date: 18th January 2014

This certificate is issued to:

Supplier: **SAFT**

In respect of:

Manufacturer: **SAFT**
18/167 Prospect Highway
Seven Hills
NSW, 2147
Australia

Product description: **SBLE NI-CAD BATTERY RANGE 7.5AH – 1660AH**

Item identification: **SEE APPROVED ITEM LIST**

Application: For use in level crossings and other signalling locations

Relevant Standards: SPS 02 – ‘Environmental Conditions’
ESD-03-01 – ‘Level Crossing Design’

- Conditions of Approval:**
1. Only to be used with a battery charger suitable for Ni-Cads and for the size of battery and standing load.
 2. Batteries only as per the approved list.
 3. Batteries capacity to be calculated as per the level crossing design standard or power supply design standard
 4. To be used to replace SBL batteries when they are life expired.
 5. Not to be used in installations where solar is the only means of charging batteries.
 6. Maintenance in accordance with TMP and maintenance service schedules.
 7. Personnel Protective Equipment (PPE) must be worn whenever handling the batteries (gloves, glasses etc).
 8. Batteries must be installed away from direct sunlight, in clean locations with ventilation.
 9. Mechanical aids to be used when moving heavier battery cell packs.
 10. Protective covers must be installed on all battery terminals and connector strips.
 11. Only deionised or distilled water to be used for “top up” of battery electrolyte.
 12. Only water to be used to clean the battery surfaces.
 13. Wire brushes must not be used to clean terminals only soft non-metal brushes are allowed.

A general condition of approval is that the supplier remains accredited to ISO 9001 specifically for these products and ARTC is advised on a 2 yearly 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.

Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer shall notify ARTC of any modification or changes in order to obtain a valid certificate.

Page: 2 of 4

Note/Comments: None

Issue date: 11 April 2014

Expiry date: N/A

Page: 2 of 4

Issued by:

A handwritten signature in blue ink, appearing to read 'John Furness', is written over a horizontal line.

John Furness
ARTC Manager Standards

NEW EQUIPMENT & SYSTEM APPROVAL - APPROVED ITEM LIST

Product description: **SBLE NI-CAD BATTERY RANGE 7.5AH – 1660AH**

Certificate No: **S 05-2814-144**

The following lists the individual types (by catalogue number) of SBLE 7.5-1660 Ni-Cad batteries manufactured by SAFT which are type approved for use in signalling circuits on ARTC infrastructure under Type Approval Certificate **S-05-2814-144** subject only to any conditions shown on that Certificate and the Conditions of Use shown against individual types.

SBLE battery Ni-Cad range

Cell Type	Amp-hour (ah)	Comment
SBLE 7.5	7.5	Not to be used with solar charging
SBLE 15	15	Not to be used with solar charging
SBLE 22	22	Not to be used with solar charging
SBLE 30	30	Not to be used with solar charging
SBLE 40	40	Not to be used with solar charging
SBLE 47	47	Not to be used with solar charging
SBLE 62	62	Not to be used with solar charging
SBLE 75	75	Not to be used with solar charging
SBLE 95	95	Not to be used with solar charging
SBLE 110	110	Not to be used with solar charging
SBLE 140	140	Not to be used with solar charging
SBLE 185	185	Not to be used with solar charging
SBLE 230	230	Not to be used with solar charging
SBLE 275	275	Preferred battery size for level crossing installations. Not to be used with solar charging
SBLE 325	325	Not to be used with solar charging
SBLE 375	375	Not to be used with solar charging
SBLE 415	415	Not to be used with solar charging
SBLE 460	460	Not to be used with solar charging
SBLE 510	510	Not to be used with solar charging
SBLE 550	550	Not to be used with solar charging
SBLE 600	600	Not to be used with solar charging
SBLE 650	650	Not to be used with solar charging
SBLE 700	700	Not to be used with solar charging
SBLE 750	750	Not to be used with solar charging
SBLE 830	830	Not to be used with solar charging
SBLE 925	925	Not to be used with solar charging
SBLE 1020	1020	Not to be used with solar charging

Cell Type	Amp-hour (ah)	Comment
SBLE 1100	1100	Not to be used with solar charging
SBLE 1200	1200	Not to be used with solar charging
SBLE 1300	1300	Not to be used with solar charging
SBLE 1400	1400	Not to be used with solar charging
SBLE 1500	1500	Not to be used with solar charging
SBLE 1600	1600	Not to be used with solar charging
SBLE 1660	1660	Not to be used with solar charging