6/9C/246
4 March 2011

Australian Government
National Measurement Institute

Bradfield Road, West Lindfield NSW 2070

# Cancellation
# Certificate of Approval
# No 6/9C/246

Issued by the Chief Metrologist under Regulation 60
of the
*National Measurement Regulations 1999*

This is to certify that the approval for use for trade granted in respect of the

ROBWAY Model ULTIMATE Mk II Weighing Instrument

submitted by ROBWAY Safety Systems Pty Ltd
32 West Thebarton Road
Thebarton SA 5031

has been cancelled in respect of new instruments as from 1 April 2011.

Signed by a person authorised by the Chief Metrologist to exercise his powers under Regulation 60 of the *National Measurement Regulations 1999*.

# National Standards Commission

## Certificate of Approval

## No 6/9C/246

Issued under Regulation 9
of the
National Measurement (Patterns of Measuring Instruments) Regulations

This is to certify that an approval for use for trade has been granted in respect of the

ROBWAY Model ULTIMATE Mk II Weighing Instrument

submitted by ROBWAY Safety Systems Pty Ltd
32 West Thebarton Road
Thebarton SA 5031.

**NOTE**: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/3/98.
~~This approval expires in respect of new instruments on 1/3/99~~.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/246 and only by persons authorised by the submittor.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

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It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the Commission and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with the Commission's Document 106.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0/A.

## DESCRIPTIVE ADVICE

**Pattern:** approved 25/2/93

- A ROBWAY model ULTIMATE Mk II class 4 self-indicating weighing instrument of 2000 kg maximum capacity.

**Variants:** approved 25/2/93

1. A model ULTIMATE Mk II or ULTIMATE Mk III class 3 instrument of certain capacities.

2. A model ULTIMATE Mk IV Twin System class 3 instrument of certain capacities.

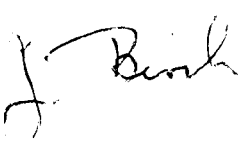
Technical Schedule No 6/9C/246 describes the pattern and variants 1 and 2.

## FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/9C/246 dated 31/5/93
Technical Schedule No 6/9C/234 dated 31/5/93 (incl. Test Procedure)
Figures 1 and 2 dated 31/5/93

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.



# National Standards Commission

TECHNICAL SCHEDULE No 6/9C/246

**Pattern:** ROBWAY Model ULTIMATE Mk II Weighing Instrument.

**Submittor:** ROBWAY Safety Systems Pty Ltd
32 West Thebarton Road
Thebarton SA 5031.

## 1. Description of Pattern

A ROBWAY model ULTIMATE Mk II self-indicating class 4 weighing instrument of 2000 kg capacity with a verification scale interval of 2 kg.

### 1.1 Weighing Mechanism

The weighing mechanism (Figure 1) consists of a single load cell fitted between a pair of metal plates which are then mounted between the mast and the lifting attachment (tines or otherwise) of a fork-lift.

The load receptor (pallet or similar) has a maximum area of 1200 x 1200 mm.

### 1.2 Load Cell

A Precision Transducers model ST 5T load cell of 5000 kg capacity is used and is mounted as shown in Figure 1.

Only this make, model and capacity of load cell shall be used.

### 1.3 Indicator

An AND Mercury model AD-4321 digital indicator is used as described in the documentation of NSC approval No S199. The instrument may be fitted with a semi-automatic subtractive taring device of up to maximum capacity.

### 1.4 Operation

Weighing is only to take place when the level indicator mounted on the fork-lift mast, indicates that the mast is correctly positioned for weighing, and only when the mast and the fork-lift are both stationary.

Adjacent to the reading face of the indicator is a notice stating that THE INSTRUMENT, INCLUDING THE MAST, MUST BE LEVEL AND STATIONARY WHEN IN USE, or similar wording. A similar notice in letters not less than 10 mm high is fixed adjacent to the level indicator mounted on the rear of the fork-lift mast so as to be visible to the operator.

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## 1.5 Markings

Instruments are marked with the following data, together in one location:

| | |
|---|---|
| Manufacturer's name or mark | |
| Serial number | |
| NSC approval number | NSC No 6/9C/246 |
| Accuracy class | (IIII) (or (III)) # |
| Maximum capacity | Max ..... kg * |
| Minimum capacity | Min ..... kg * |
| Verification scale interval | e = ..... kg * |

# (IIII) for class 4 instruments, e.g. the pattern; (III) for class 3 instruments.

* Adjacent to each reading face.

## 1.6 Verification/Certification Provision

Provision is made for a verification/certification mark to be provided.

## 1.7 Sealing

Provision is made for the calibration adjustments in the indicator to be sealed.

## 2. Description of Variants

### 2.1 Variant 1

A model ULTIMATE Mk II or ULTIMATE Mk III class 3 instrument of capacities as listed in Table 1.

### 2.2 Variant 2

A model ULTIMATE Mk IV Twin System class 3 weighing instrument of capacities as listed in Table 1.

The weighing mechanism (Figure 2) comprises two units; each unit consists of a load cell fitted between a pair of metal plates. The units are then mounted as described for the pattern.

The load receptor (pallet or similar) has a maximum area of 1200 x 1200 mm.

Only the make, model and capacity of load cell as described for the pattern shall be used.

TABLE 1

| | Mk II | Mk II | Mk II | Mk III | Mk III | Mk IV | Mk IV |
|---|---|---|---|---|---|---|---|
| Maximum Capacity (kg) | 1500 | 2000 | 2000 | 3000 | 4000 | 4000 | 6000 |
| Verification Scale Interval (kg) | 1 | 1 | 2 | 2 | 5 | 2 | 5 |

## TEST PROCEDURE

Instruments should be tested in conjunction with any tests specified in the approval documentation for the indicator used, and in accordance with any relevant tests specified in the Inspector's Handbook.

**Maximum Permissible Errors at Verification/Certification**

The maximum permissible errors for increasing and decreasing loads, expressed in terms of verification scale interval (e), with the instrument adjusted to zero within ±0.25e at no load, are:

**For class 4 instruments:**

±0.5e for loads from 0 to 50e;
±1.0e for loads over 50e up to 200e; and
±1.5e for loads over 200e.

**For class 3 instruments:**

±0.5e for loads from 0 to 500e;
±1.0e for loads over 500e up to 2000e; and
±1.5e for loads over 2000e.

# National Standards Commission

## Notification of Change

## Certificate of Approval No 6/9C/246

## Change No 1

The following changes are made to the approval documentation for the

ROBWAY Model ULTIMATE Mk II Weighing Instrument

submitted by ROBWAY Safety Systems Pty Ltd
32 West Thebarton Road
Thebarton SA 5031.

(a) In Certificate of Approval No 6/9C/246 dated 31 May 1993;

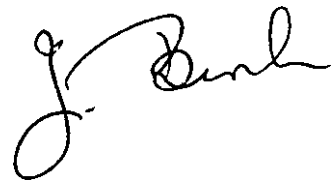
(i) The Condition of Approval referring to the review of the approval should be amended to read:

"This approval becomes subject to review on or after 1 March 2003."

(ii) The Condition of Approval referring to the expiry of the approval should be deleted.

(b) In Technical Schedule No 6/9C/246 dated 31 May 1993, clause **1.3 Indicator** should be amended by changing the reference to the indicator model to read "AD-4327A or AD-4327B" and by changing the reference to the NSC approval number to read "S314".

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.



6/9C/246
28 July 2004

Australian Government

National Measurement Institute

12 Lyonpark Road, North Ryde NSW 2113

# Notification of Change
# Certificate of Approval No 6/9C/246
# Change No 2

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

The following changes are made to the approval documentation for the

ROBWAY Model ULTIMATE Mk II Weighing Instrument

submitted by ROBWAY Safety Systems Pty Ltd
32 West Thebarton Road
Thebarton SA 5031.

1. In Certificate of Approval No 6/9C/246 dated 31 May 1993;

(a) The Condition of Approval referring to the review of the approval should be amended to read:

"This approval becomes subject to review on 1 March 2009, and then every 5 years thereafter."

(b) The following Condition of Approval referring to complying with General Certificate No 6B/0 should be added:

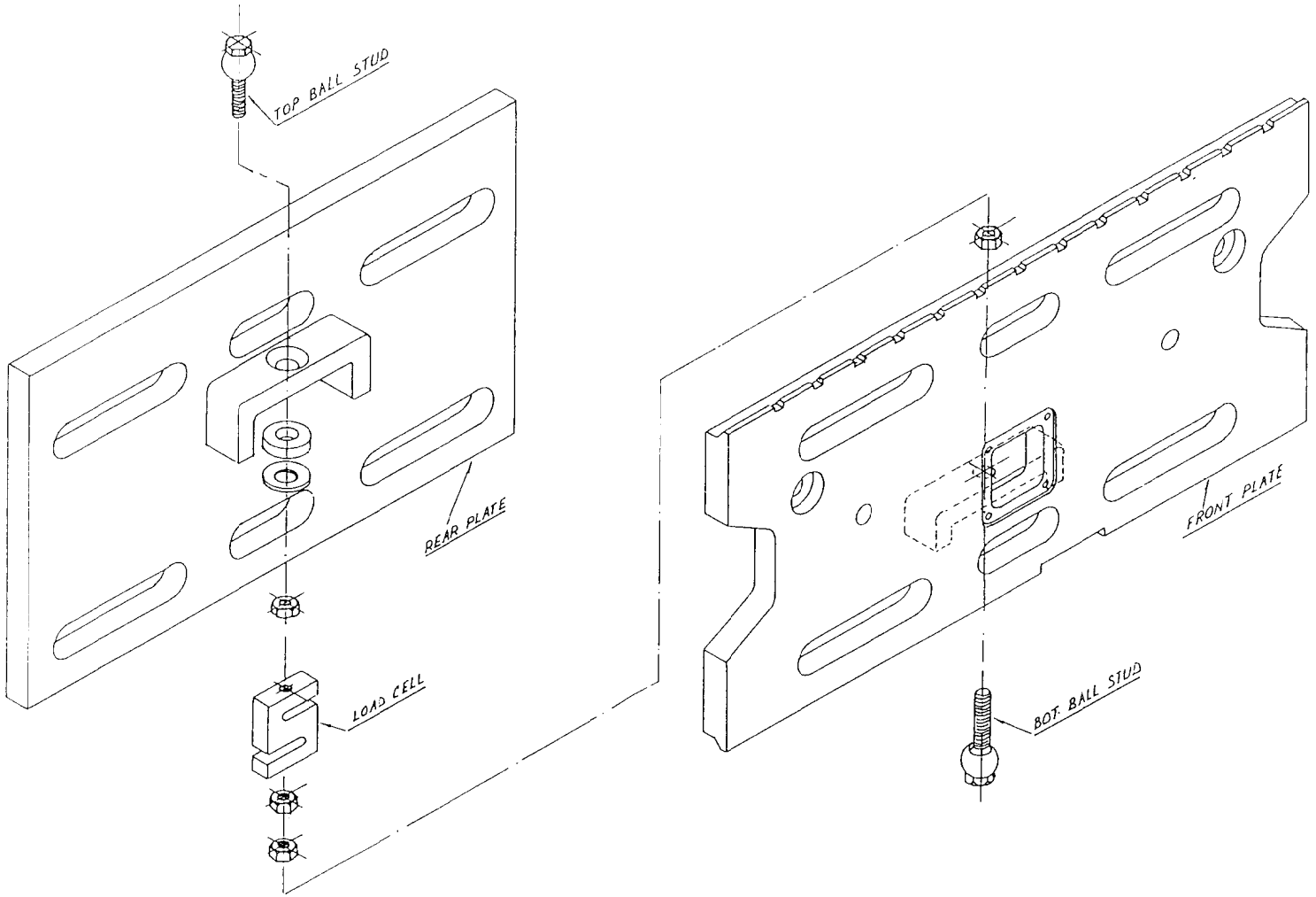
"The pattern and variants in capacities as approved herein but with substitute approved indicators shall comply with General Certificate of Approval No 6B/0.

Note: New instruments manufactured under this approval shall only use indicators with current Supplementary Certificates of Approval."

2. In Technical Schedule No 6/9C/246 dated 31 May 1993, clause **1.3 Indicator**, previously amended by Notification of Change No 1 dated 1 March 1999, should be amended by changing the reference to the approval number from "S314" to now read "S314A".

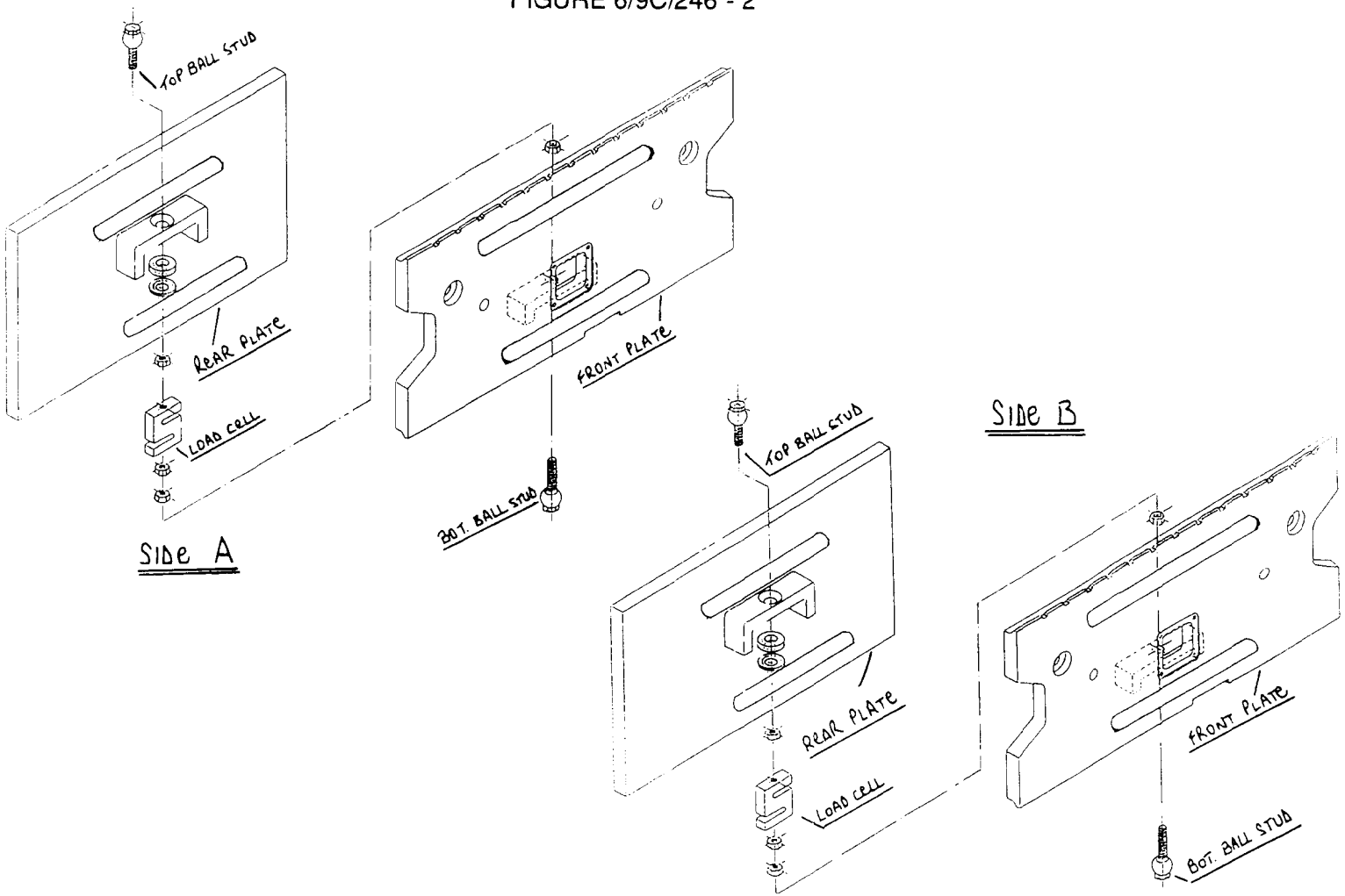
Signed by a person authorised by the Chief Metrologist to exercise his powers under Regulation 60 of the National Measurement Regulations 1999.

FIGURE 6/9C/246 - 1




ROBWAY Model ULTIMATE MkII Weighing Instrument

FIGURE 6/9C/246 - 2




Typical 1" TIMATE Twin System Weighing Mechanism