



**Australian Government**

**National Measurement  
Institute**

Bradfield Road, West Lindfield NSW 2070

# **Notification of Change**

## **Certificate of Approval No 6/10B/61**

### **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  
AWE Model T.W.B. 2 Weighing Instrument

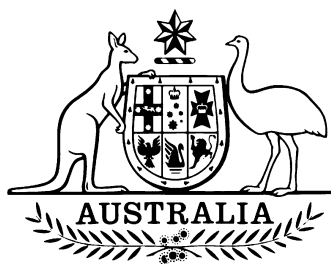
submitted by            Australian Weighing Equipment Pty Ltd  
                                 50 Mandarin Street  
                                 Fairfield East    NSW    2165.

In Certificate of Approval No 6/10B/61 dated 15 March 2002;

1.     The Condition of Approval referring to the review of the approval should be amended to read:  
                                 “This approval becomes subject to review on 1 January **2015**, and then every 5 years thereafter.”
2.     The FILING ADVICE should be amended by adding the following:  
                                 “Notification of Change No 1 dated 22 October 2003  
                                 Notification of Change No 2 dated 30 March 2011”

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

A handwritten signature in black ink, consisting of stylized cursive letters, positioned to the right of the signature text.



## National Standards Commission

12 Lyonpark Road, North Ryde NSW

### Certificate of Approval

**No 6/10B/61**

Issued under Regulation 60  
of the  
National Measurement Regulations 1999

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

AWE Model T.W.B. 2 Weighing Instrument

submitted by Australian Weighing Equipment Pty Ltd  
50 Mandarin Street  
Fairfield East NSW 2165.

**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 becomes subject to review on 1 January 2003, and then every 5 years thereafter. Instruments purporting to comply with this approval shall be marked NSC No 6/10B/61 and only by persons authorised by the submittor.

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 NSC P 106.

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

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

The pattern as approved herein or with substitute Commission-approved load cells and/or indicators, and in other capacities, or with different platform sizes, shall comply with General Certificate No 6B/0.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to the instrument shall be within the limits specified herein and in any approval documentation for the components where they are approved separately.

### DESCRIPTIVE ADVICE

**Pattern:** approved 12 December 1997

- An AWE model T.W.B. 2 self-indicating weighing instrument of 20 000 kg maximum capacity.

Technical Schedule No 6/10B/61 describes the pattern.

**Variants:** approved 22 February 2002

1. In capacities from 15 000 kg up to 149 999 kg.
2. As hopper weighing instruments in capacities from 100 kg up to 149 999 kg.

Technical Schedule No 6/10B/61 Variation No 1 describes variants 1 and 2.

### FILING ADVICE

Certificate of Approval No 6/10B/61 dated 10 March 1998 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/10B/61 dated 15 March 2002

Technical Schedule No 6/10B/61 dated 10 March 1998 (incl. Test Procedure)

Technical Schedule No 6/10B/61 Variation No 1 dated 15 March 2002

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.



## TECHNICAL SCHEDULE No 6/10B/61

**Pattern:** AWE Model T.W.B. 2 Weighing Instrument

**Submittor:** Australian Weighing Equipment Pty Ltd  
Unit 14, 7 Birmingham Avenue  
Villawood NSW 2163.

### **1. Description of Pattern**

An AWE model T.W.B. 2 self-indicating weighing instrument of 20 000 kg maximum capacity and approved for use with up to 2 000 verification scale intervals.

#### **1.1 Basework**

The model T.W.B. 2 basework has the platform fully supported by four load cells.

#### **1.2 Load Cells**

GEC Avery model 8708 load cells of 7 000 kg maximum capacity are used. The load cells are also described in the documentation of NSC approval No S176A.

#### **1.3 Indicator**

An A & D Mercury model AD-4326B digital indicator is used. The indicator is also described in the documentation of NSC approval No S314.

#### **1.4 Verification/Certification Provision**

Provision is made for the application of a verification/certification mark.

#### **1.5 Sealing Provision**

Provision is made for the calibration adjustments in the indicator to be sealed by means of the method described in the approval documentation for the indicator.

## 1.6 Markings

Instruments carry the following markings, in the form shown at right:

Manufacturer's mark, or name written in full	
Indication of accuracy class	Ⓜ
Maximum capacity	Max ..... kg or t *
Minimum capacity	Min ..... kg or t *
Verification scale interval	$e = \dots\dots\dots$ kg or t *
Serial number of the instrument	
Pattern approval mark for the instrument	NSC No 6/10B/61
Pattern approval mark for the load cells	NSC No S....
Pattern approval mark for the indicator	NSC No S....

\* These markings shall also be shown near the display of the result if they are not already located there.

## 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 on initial verification/certification for loads,  $m$ , expressed in verification scale intervals,  $e$ , are:

- $\pm 0.5 e$  for loads  $0 \leq m \leq 500$ ; and
- $\pm 1.0 e$  for loads  $500 < m \leq 2\,000$ .

TECHNICAL SCHEDULE No 6/10B/61  
VARIATION No 1

**Pattern:** AWE Model T.W.B. 2 Weighing Instrument.  
**Submittor:** Australian Weighing Equipment Pty Ltd  
50 Mandarin Street  
Fairfield East NSW 2165.

**1. Description of Variants**

**1.1 Variant 1**

Other weighing instruments of the T.W.B. series in capacities from 15 000 kg up to 149 999 kg with no less than 4 and with up to 10 Commission-approved load cells.

**1.2 Variant 2**

As hopper weighing instruments in capacity ranges as listed below:

- in capacities from 100 kg up to 1499 kg;
- in capacities from 1500 kg up to 14 999 kg; and
- in capacities from 15 000 kg up to 149 999 kg.

Instruments are either:

- (a) fitted with 3, 4 or 5 Commission-approved load cells (arranged symmetrically to ensure even loading of each cell) where the hopper is a vertical cylindrical or tank-type load receptor directly supported by the load cells; or
- (b) fitted with 4 Commission-approved load cells where the hopper is a non- vertical cylindrical, or other hopper-type load receptor.

**Note:** Instruments with more than 4 load cells may be acceptable if prior written agreement from the Commission is obtained.

In addition suitable provision must be made for the application of suitable verified masses to the instrument as required for verification and certification purposes. It may be necessary for such masses to be incorporated within the design of the instrument.

**Note:** The load receptor may be in the form of a hopper or bag suspended from the base frame.



# Australian Government

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## National Standards Commission

12 Lyonpark Road, North Ryde NSW 2113 Australia

### Notification of Change

### Certificate of Approval No 6/10B/61

### Change No 1

The following changes are made to the approval documentation for the

AWE Model T.W.B. 2 Weighing Instrument

submitted by Australian Weighing Equipment Pty Ltd  
50 Mandarin Street  
Fairfield East NSW 2165.

In Certificate of Approval No 6/10B/61 dated 15 March 2002;

1. The Condition of Approval referring to the review of the approval should be amended to read:  
"This approval becomes subject to review on 1 January 2008, and then every 5 years thereafter."
2. The Condition of Approval referring to complying with General Certificate No 6B/0 should be amended by adding the following note:  
"Note: New instruments manufactured under this approval shall only use load cells and/or indicators with current NSC supplementary certificates."

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink, appearing to be "J. G. B.", written on a light-colored background.