Australian Government

National Measurement Institute
Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 6/10B/45C
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

A & D Mercury Model RVB-H20 Weighing Instrument

submitted by A & D Mercury Pty Ltd
(now A & D Australasia Pty Ltd)
32 Dew Street
Thebarton SA 5031.

A. In Certificate of Approval No 6/10B/45C dated 4 March 1999;

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 December **2013**, and then every 5 years thereafter."

Note: The review date was previously amended by Notification of Change No 1 dated 28 July 2004.

2. The DESCRIPTIVE ADVICE should be amended by adding the following to the description of the pattern:

"May also be known as A & D instruments of the same model."

3. The FILING ADVICE should be amended by adding the following:

"Notification of Change No 1 dated 28 July 2004
Notification of Change No 2 dated 27 October 2009"

B. In Certificate of Approval No 6/10B/45C and its Technical Schedule both dated 4 March 1999, the references to the name of the submittor should be amended to read:

"A & D **Australasia** Pty Ltd"

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C. In Technical Schedule No 6/10B/45C dated 4 March 1999:

1. Clause **1. Description of Pattern** should be amended by adding the following:

"May also be known as A & D instruments of the same model."

2. Clause **1.4 Markings** should be amended to read, in part:

"Manufacturer's mark, or name written in full A & D Mercury **(or A & D)**"

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 6/10B/45C

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

A & D Mercury Model RVB-H20 Weighing Instrument

submitted by A & D Mercury Pty Ltd
32 Dew Street
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.

This Certificate is issued upon completion of a review of NSC approval No 6/10B/45B.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 December 2003, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/10B/45C and only by persons authorised by the submittor.

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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.

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

The pattern as approved herein or with substitute load cells and/or indicator and in other capacities, shall comply with General Certificate No 6B/0.

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

DESCRIPTIVE ADVICE

Pattern: approved 27 November 1998

- An A & D Mercury model RVB-H20 self-indicating weighing instrument of 20 000 kg maximum capacity.

Variants: approved 27 November 1998

1. Weighing instruments in certain other capacities.
2. With hopper-type load receptors.

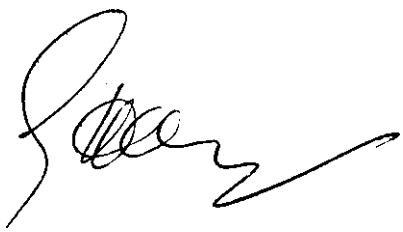
Technical Schedule No 6/10B/45C describes the pattern and variants 1 & 2.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/10B/45C dated 4 March 1999
Technical Schedule No 6/10B/45C dated 4 March 1999 (incl. Test Procedure)

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.



TECHNICAL SCHEDULE No 6/10B/45C

Pattern: A & D Mercury Model RVB-H20 Weighing Instrument.

Submittor: A & D Mercury Pty Ltd
32 Dew Street
Thebarton SA 5031.

1. Description of Pattern

An A & D Mercury model RVB-H20 self-indicating weighing instrument of 20 000 kg maximum capacity and approved for use with up to 2000 verification scale intervals.

1.1 Basework

The model RVB-H20 basework has the platform fully supported by 4 load cells.

1.2 Load Cells

Precision Transducers model PSB10000 load cells of 10 000 kg maximum capacity are used. The load cells are also described in the documentation of NSC approval No S346.

1.3 Indicator

An A & D Mercury model AD-4323 digital indicator is used. The indicator is also described in the documentation of NSC approval No S251A.

1.4 Markings

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

Manufacturer's mark, or name written in full	A & D Mercury
Indication of accuracy class	(III)
Maximum capacity	*Max* ..... kg or t *
Minimum capacity	*Min* ..... kg or t *
Verification scale interval	*e =* ..... kg or t *
Serial number of the instrument	.....
Pattern approval mark for the instrument	NSC No 6/10B/45C
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 each reading face if they are not already located there.

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1.5 Verification/Certification Provision

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

1.6 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.

2. Description of Variants

2.1 Variant 1

Weighing instruments in capacities from 15 000 to 149 999 kg, with no less than 4 and with up to 10 Commission-approved load cells.

2.2 Variant 2

Hopper weighing instruments in capacities from 15 000 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.

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 $0 \leq m \leq 500$;
$\pm 1.0\ e$ for loads $500 < m \leq 2\,000$; and
$\pm 1.5\ e$ for loads $2\,000 < m \leq 10\,000$.