Australian Government
National Measurement Institute
Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 6/10B/52B
Change No 1

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

Rite-Weigh Model RW-1 Weighing Instrument

submitted by Rite-Weigh Scales Pty Ltd
now of 50 Mandarin Street
Fairfield East NSW 2165.

A. In Certificate of Approval No 6/10B/52B dated 26 May 2003;

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 June **2015**, and then every 5 years thereafter."

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

   "Notification of Change No 1 dated 11 February 2011"

B. In Certificate of Approval No 6/10B/52B and its Technical Schedule both dated 26 May 2003, the references to the address of the submittor should be amended to read:

   "50 Mandarin Street
   Fairfield East NSW 2165"

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

6/10B/52B
26 May 2003

National Standards Commission

12 Lyonpark Road, North Ryde NSW

Certificate of Approval

No 6/10B/52B

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

Rite-Weigh Model RW-1 Weighing Instrument

submitted by Rite-Weigh Scales Pty Ltd
22 Wetherill Street South
Lidcombe NSW 2141.

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/52A.

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CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 April 2008, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/10B/52B 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 load cells and/or indicator and in other capacities and configurations, shall comply with General Certificate No 6B/0.

DESCRIPTIVE ADVICE

Pattern: approved 12 March 2003

- A Rite-Weigh model RW-1 weighing instrument of 60 000 kg maximum capacity.

Variants: approved 12 March 2003

1. With a hopper or tank-type load receptor.
2. With a model RWH1 hopper load receptor.
3. With a model RWH2 hopper load receptor.
4. Other RW-1 series platform instruments in capacities from 100 to 149 999 kg.

Technical Schedule No 6/10B/52A describes the pattern and variants 1 to 4.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/10B/52B dated 26 May 2003
Technical Schedule No 6/10B/52B dated 26 May 2003 (incl. Test Procedure)
Figures 1 and 2 dated 26 May 2003

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/52B

Pattern: Rite-Weigh Model RW-1 Weighing Instrument

Submittor: Rite-Weigh Scales Pty Ltd
22 Wetherill Street South
Lidcombe NSW 2141

1. Description of Pattern

A Rite-Weigh model RW-1 self-indicating weighing instrument of 60 000 kg maximum capacity and approved for use with up to 3000 verification scale intervals.

1.1 Basework

The model RW-1 basework has the platform fully supported by four load cells.

Longitudinal and transverse movement is limited by up to 8 Philips model PR6152/02 horizontal constrainers.

1.2 Load Cells

Four GWT Global Weighing model PR6201/24C3 load cells of 20 000 kg maximum capacity are used. The load cells are also described in the documentation of NSC approval No S333A.

1.3 Indicator

A Gedge Systems model GS1650Mk3 digital indicator is used. The indicator is also described in the documentation of NSC approval No S193B.

1.4 Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full	.....
Indication of accuracy class	(III)
Maximum capacity	*Max* ..... kg *
Minimum capacity	*Min* ..... kg *
Verification scale interval	*e* = ... kg *
Serial number of the instrument	.....
Pattern approval mark for the instrument	NSC No 6/10B/52B
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.

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.

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1.6 Verification/Certification Provision

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

For hoppers (variants 1 to 3) 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.

2. Description of Variants

2.1 Variant 1

Other models with a single or multiple-bin hopper or tank-type load receptor of 30 000 kg maximum capacity and approved for use with up to 3000 verification scale intervals.

Four GWT Global Weighing model PR6201/34C3 load cells of 30 000 kg maximum capacity are used. Horizontal stays are fitted at each load cell mounting. The load cells are also described in the documentation of NSC approval No S333A.

2.2 Variant 2

A model RWH1 single bin hopper load receptor of 100 kg maximum capacity with a verification scale interval of 0.1 kg. The receptor is suspended from or mounted on two load cells (Figure 1).

Two Precision Transducers model LS250 load cells of 250 kg maximum capacity are used and are mounted in accordance with the manufacturer's instructions and as described in the documentation of NSC approval No S342.

The vertical location of the load cells on the hopper or supporting legs may be varied within limits which provide stability of the hopper.

The hopper is restrained from excessive lateral movement.

2.3 Variant 3

A model RWH2 single bin hopper load receptor in capacities up to 1499 kg and approved for use with up to 3000 verification scale intervals. The receptor is suspended from or mounted on two, three or four load cells (Figure 2).

Avery Berkel model T204 load cells of 750 kg maximum capacity are used and are mounted in accordance with the manufacturer's instructions and as described in the documentation of NSC approval No S364.

The load receptor may be rectangular, square or circular in horizontal cross-section.

The load cells are located symmetrically around the hopper.

The vertical location of the load cells on the hopper or supporting legs may be varied within limits which provide stability of the hopper.

The hopper is restrained from excessive lateral movement.

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2.4 Variant 4

Other RW-1 series platform weighing instruments in capacities from 100 to 149 999 kg, with no less than 4 and with up to 10 Commission-approved load cells, and approved for use with up to 4000 verification scale intervals.

Instruments used with more than 3000 verification scale intervals shall be provided with wind protection in accordance with ‘clause 4. Wind Effects’ of General Certificate of Approval No 6B/0.

TEST PROCEDURE

Instruments should be tested in accordance with any relevant tests specified in the Uniform Test Procedures.

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:

±0.5 *e* for loads $0 \leq m \leq 500$;
±1.0 *e* for loads $500 < m \leq 2\,000$; and
±1.5 *e* for loads $2\,000 < m \leq 10\,000$.

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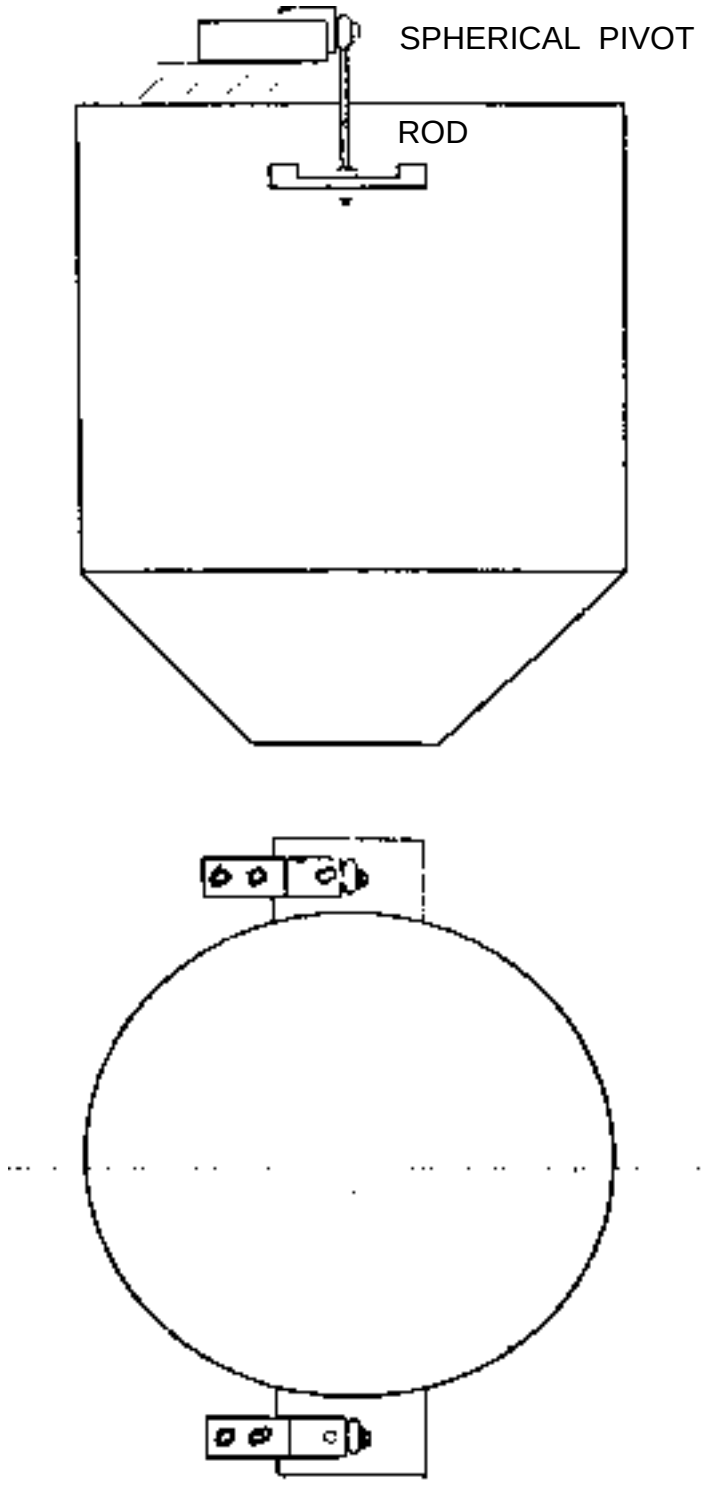
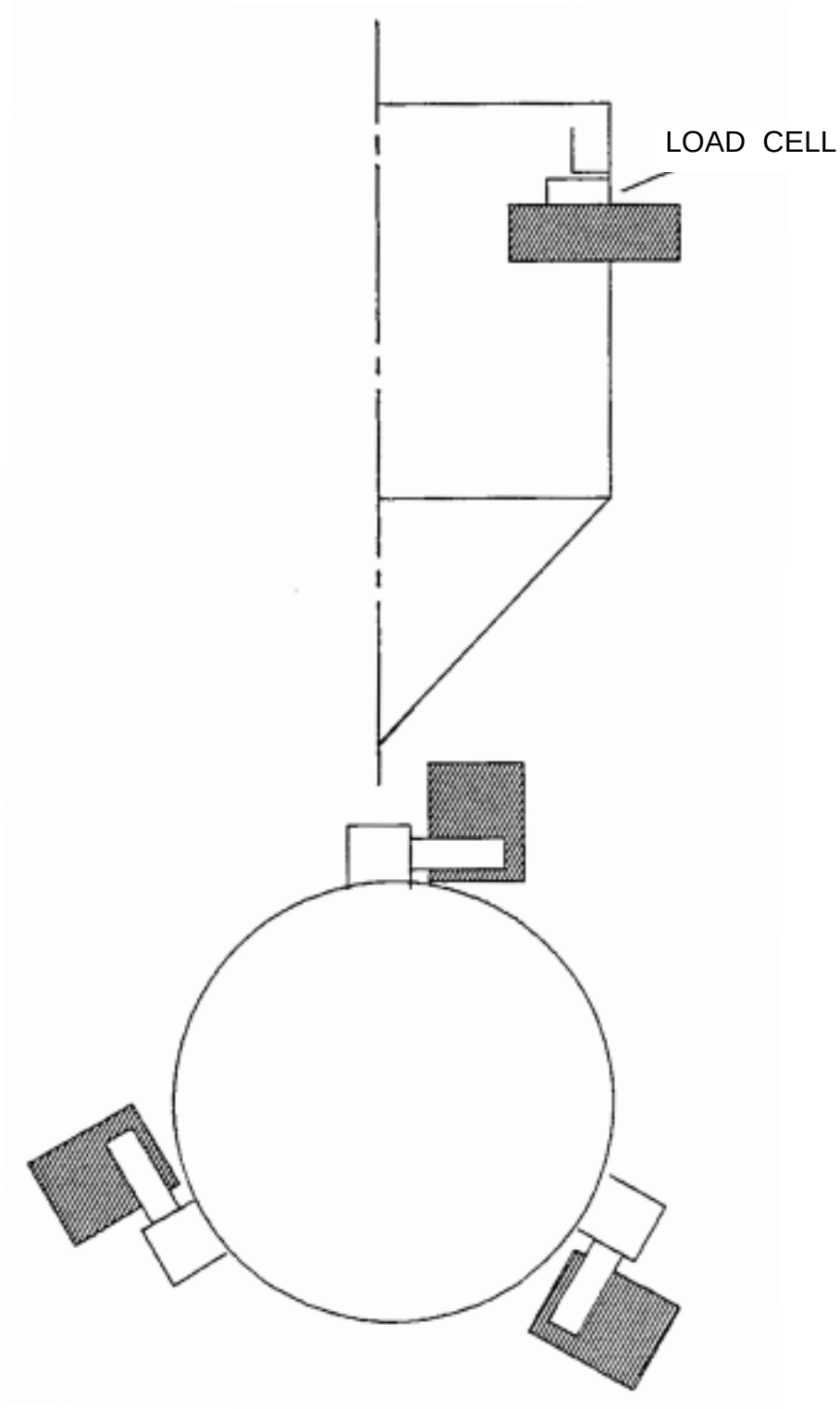
FIGURE 6/10B/52B – 1



Rite-Weigh Model RWH1 Weighing Instrument – Variant 2

FIGURE 6/10B/52B – 2



Rite-Weigh Model RWH2 Weighing Instrument – Variant 3