6/18/33
8 March 2010

Australian Government

National Measurement Institute

Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 6/18/33
Change No 4

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

OZTEK Model 4150 Overhead-track Weighing Instrument

submitted by OZ-TEK Scales
14 Leake Street
Eaton WA 6232.

In Certificate of Approval No 6/18/33 dated 20 January 2000:

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 **2014**, and then every 5 years thereafter."

   Note: The review date was previously amended by Notification of Change No 3 dated 8 December 2004.

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

   "Notification of Change No 1 dated 29 February 2000
   Notification of Change No 2 dated 10 September 2000
   Notification of Change No 3 dated 8 December 2004
   Notification of Change No 4 dated 8 March 2010"

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 6/18/33

Issued under Regulation 63
of the
National Measurement Regulations 1999

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

OZTEK Model 4150 Overhead-track Weighing Instrument

submitted by OZ-TEK Scales
14 Leake Street
Eaton WA 6232.

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 December 2004, and then every 5 years thereafter.

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Instruments purporting to comply with this approval shall be marked NSC No 6/18/33 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 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.

Alternative Commission-approved indicators may be used in which case instruments shall comply with General Certificate No 6B/0.

DESCRIPTIVE ADVICE

Pattern: approved 11 November 1999

- A OZTEK model 4150 overhead-track weighing instrument of 150 kg maximum capacity.

Variant: approved 11 November 1999

1. A model 4060 of 60 kg maximum capacity.

Variant: approved 13 January 2000

2. A model 4300 of 300 kg maximum capacity.

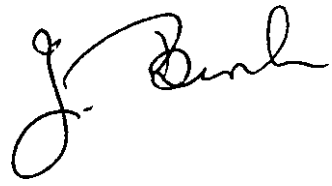
Technical Schedule No 6/18/33 describes the pattern and variants 1 & 2.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/18/33 dated 20 January 2000
Technical Schedule No 6/18/33 dated 20 January 2000 (incl. Test Procedure)
Figure 1 dated 20 January 2000

Signed and sealed by a person authorised under Regulation 63 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.



TECHNICAL SCHEDULE No 6/18/33

Pattern: OZTEK Model 4150 Overhead-track Weighing Instrument.

Submittor: OZ-TEK Scales
14 Leake Street
Eaton WA 6232

1. Description of Pattern

An OZTEK model 4150 overhead-track weighing instrument of 150 kg maximum capacity with a verification scale interval of 0.05 kg.

1.1 Trackwork

The model 4150 (Figure 1) has the weigh-rail of up to 400 mm in length suspended from a single load cell.

1.2 Load Cells

An A & D Mercury model LC-4103-K150 load cell of 150 kg capacity is used and mounted as shown in Figure 1. Note that only this make, model and capacity of load cell shall be used.

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	OZ-TEK Scales
Indication of accuracy class	(III)
Maximum capacity	*Max* ..... kg *
Minimum capacity	*Min* ..... kg *
Verification scale interval	*e =* ..... kg *
Serial number of the instrument	.....
Serial numbers of the load cells (#)	.....
Pattern approval mark for the instrument	NSC No 6/18/33
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.

\# Alternatively, these may be marked on the nameplate for the trackwork.

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1.5 Sealing Provision

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

1.6 Verification/Certification Provision

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

2. Description of Variants

2.1 Variant 1

A model 4060 overhead-track weighing instrument of 60 kg maximum capacity with a verification scale interval of 0.2 kg.

2.1.1 Trackwork

The model 4060 has the weigh-rail of up to 400 mm in length.

2.1.2 Load Cells

An A & D Mercury model LC-4103-K60 load cell of 60 kg capacity is used and mounted as shown in Figure 1.

Note that only this make, model and capacity of load cell shall be used.

2.2 Variant 2

A model 4300 overhead-track weighing instrument of 300 kg maximum capacity with a verification scale interval of 0.1 kg.

2.2.1 Trackwork

The model 4300 has the weigh-rail of up to 400 mm in length.

2.2.2 Load Cells

An A & D Mercury model LC-4204-K300 load cell of 300 kg capacity is used and mounted as shown in Figure 1.

Note that only this make, model and capacity of load cell shall be used.

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:

±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 $2\,000 < m \leq 10\,000$.

National Standards Commission

Notification of Change

Certificate of Approval No 6/18/33

Change No 1

The following change is made to the approval documentation for the

OZTEK Model 4150 Overhead-track Weighing Instrument

submitted by OZ-TEK Scales
14 Leake Street
Eaton WA 6232.

In Technical Schedule No 6/18/33 dated 20 January 2000, clause **2.1 Variant 1** should be amended (by changing the value of the verification scale interval) to read:

> "A model 4060 overhead-track weighing instrument of 60 kg maximum capacity with a verification scale interval of **0.02** kg."

Signed and sealed by a person authorised under Regulation 63 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.

6/18/33
10 September 2000

National Standards Commission

12 Lyonpark Road, North Ryde NSW

Notification of Change

Certificate of Approval No 6/18/33

Change No 2

The following change is made to the approval documentation for the

OZTEK Model 4150 Overhead-track Weighing Instrument

submitted by OZ-TEK Scales
14 Leake Street
Eaton WA 6232.

In Technical Schedule No 6/18/33 dated 20 January 2000, page 3 is replaced by the page attached herein, which includes a table of load cell data.

Signed by a person authorised under Regulation 63 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.

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TEST PROCEDURE

Instruments should be tested in accordance 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:

±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 $2\,000 < m \leq 10\,000$.

NOTE

Note: When an alternative Commission-approved indicator is to be used as mentioned in the Conditions of Approval the table below shows information which may be required to ensure compliance with General Certificate No 6B/0.

The calculations in General Certificate No 6B/0 regarding Dead Load and Loaded Capacity of the Load Cell do not need to be carried out.

Overhead-track Instrument

Model	4150	4060	4300
Maximum capacity	150	60	300
Maximum number of verification scale intervals	3000	3000	3000
Minimum value of verification scale interval	0.05	0.02	0.1
Load cell			
Model	LC-4103-K150	LC-4103-K060	LC-4204-K300
Output rating (mV/V)	1	1	1.5
at load cell capacity of	150 kg	60 kg	300 kg
Input impedance (ohms)	400	400	400
Cable length (m)	3.0	2.9	5
Number of leads (plus shield)	4	4	4

6/18/33
8 December 2004

Australian Government

National Measurement Institute

12 Lyonpark Road, North Ryde NSW 2113

Notification of Change
Certificate of Approval No 6/18/33
Change No 3

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

The following change is made to the approval documentation for the

OZTEK Model 4150 Overhead-track Weighing Instrument

submitted by OZ-TEK Scales
14 Leake Street
Eaton WA 6232.

In Certificate of Approval No 6/18/33 dated 20 January 2000, the Condition of Approval referring to the review of the approval should be amended to read:

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 2009, and then every 5 years thereafter."

2. The Condition of Approval referring to complying with General Certificate No 6B/0 should be replaced by the following:

   "The pattern as approved herein or with substitute indicator, 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."

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

FIGURE 6/18/33 - 1