6/10B/44C
28 November 2002

National Standards Commission

12 Lyonpark Road, North Ryde NSW

Cancellation

Certificate of Approval

No 6/10B/44C

Issued 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

Ultra-Hawke Model 9630 Weighing Instrument

submitted by Ultra Scales Pty Ltd
(now Ultrahawke Pty Ltd)
33-35 Judge Street
Sunshine VIC 3020

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

National Standards Commission

Certificate of Approval

No 6/10B/44C

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

Ultra-Hawke Model 9630 Weighing Instrument

submitted by Ultra Scales Pty Ltd
33 Judge Street
Sunshine VIC 3020.

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/44B.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 November 2002, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/10B/44C 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 15 October 1997

- An Ultra-Hawke model 9630 self-indicating weighing instrument of 60 000 kg maximum capacity.

Variants: approved 15 October 1997

1. In other capacities up to 200 000 kg and with up to 10 load cells.
2. With hopper or tank-type load receptors.
3. Of 200 000 kg maximum capacity and with 16 load cells.

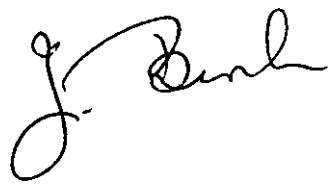
Technical Schedule No 6/10B/44C describes the pattern and variants 1 to 3.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/10B/44C dated 13 January 1998
Technical Schedule No 6/10B/44C dated 13 January 1998 (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/44C

Pattern: Ultra-Hawke Model 9630 Weighing Instrument.

Submittor: Ultra Scales Pty Ltd
33 Judge Street
Sunshine VIC 3020.

1. Description of Pattern

An Ultra-Hawke model 9630 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 9630 basework has the platform fully supported by 6 load cells.

Longitudinal and transverse movement is limited by Philips model PR6152/02 horizontal stays or other suitable method.

1.2 Load Cells

Philips model PR6201/34H load cells of 30 000 kg maximum capacity are used. The load cells are also described in the documentation of NSC approval No S298.

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, in the form shown at right:

Manufacturer's mark, or name written in full	
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/44C
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

In capacities from 15 000 kg to 200 000 kg, and with up to 10 load cells.

2.2 Variant 2

Other models with a single or multiple-bin hopper or tank-type load receptor fitted with up to 4 uniformly-loaded load cells.

2.3 Variant 3

Of 200 000 kg maximum capacity with 16 load cells.

Philips model PR6222/54H load cells of 50 000 kg maximum capacity are used. The cells are also described in the documentation of NSC approval No S326.

The 16 load cells are arranged in a ‘4 by 4’ pattern, i.e. 4 across the width and 4 along the length of the platform.

For this variant, clauses **6.1 Dead Load** and **6.2 Loaded Capacity of the Load Cell(s)** of General Certificate of Approval No 6B/0 dated 13 March 1992 do NOT apply. Instead, the following limitations apply:

(i) Load cells are installed according to the following spacing: (Distances are measured centre-to-centre.)

Distance between load cells across width of platform = 1.17 m
Maximum distance between load cells along length of platform = 8 m
Minimum distance between load cells along length of platform = 6 m

(ii) The load receptor deck has maximum nominal dimensions of 5 x 30 m, and minimum nominal dimensions of 4 x 20 m. The deadload is 7300 kg/m.

All other clauses of General Certificate of Approval No 6B/0 apply to calculations to determine the suitability of any modification, such as indicator or load cell replacement. Load cells of at least 50 000 kg maximum capacity 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:

$\pm 0.5\ e$ 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 $2\,000 < m \leq 10\,000$.