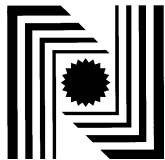
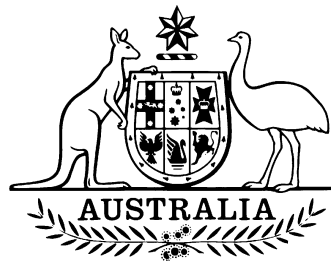


6/10B/56  
28 November 2002



## National Standards Commission

12 Lyonpark Road, North Ryde NSW

### Cancellation

### Certificate of Approval

**No 6/10B/56**

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

KSS Model BWS9000 Weighing Instrument

submitted by Kanawha Scales & Systems Inc.  
Rock Branch Industrial Park  
Poca WV 25159  
USA

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



### Instrument Certificate of Approval

**No 6/10B/56**

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

KSS Model BWS9000 Weighing Instrument

submitted by Kanawha Scales & Systems Inc.  
Rock Branch Industrial Park  
Poca WV 25159  
USA.

**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 October 2001, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No6/10B/56 and only by persons authorised by the submittor.

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

It is the submitter'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.

**Special:**

This approval is limited to one (1) instrument located at the BHP Mount Owen Mine, Hebden Road, Ravensworth NSW.

DESCRIPTIVE ADVICE

**Pattern:** provisionally approved 17 September 1996  
approved 25 November 1996

- A KSS model BWS9000 hopper weighing instrument of 108 000 kg maximum capacity.

Technical Schedule No 6/10B/56 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Instrument Certificate of Approval No 6/10B/56 dated 10 March 1997  
Technical Schedule No 6/10B/56 dated 10 March 1997 (incl. Test Procedure)  
Figures 1 to 3 dated 10 March 1997

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

## National Standards Commission

TECHNICAL SCHEDULE No 6/10B/56

**Pattern:** KSS Model BWS9000 Weighing Instrument.

**Submittor:** Kanawha Scales & Systems Inc.  
Rock Branch Industrial Park  
Poca WV 25159  
USA.

### 1. Description of Pattern

A KSS model BWS9000 weighing instrument of 108000kg maximum capacity and approved for use with a verification scale interval of 50kg (Figure 1).

#### 1.1 Basework

The model BWS9000 weighing instrument has the weigh bin fully supported by 4 load cells.

#### 1.2 Load Cells

Four Artech model 80210-125K load cells of 58700kg maximum capacity are used and are mounted as shown in Figure 2.

#### 1.3 Indicator

A Mettler Toledo model LYNX indicator is used (Figure 3).

Zero is automatically corrected to within  $\pm 0.25e$  whenever power is applied and whenever the instrument comes to rest within  $0.5e$  of zero.

The initial zero-setting device has a nominal range of not more than 20% of the maximum capacity of the instrument.

The instrument has a semi-automatic zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

#### 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 to be sealed by means of the sealing screws provided on the rear of the indicator.

### 1.6 Markings

Instruments shall 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 *  |
| Minimum capacity                             | Min ..... kg *  |
| Verification scale interval                  | e = ..... kg *  |
| Serial number of the instrument              |                 |
| Serial number of the indicator #             |                 |
| Serial number of the load cells #            |                 |
| Pattern approval mark for the instrument     | NSC No 6/10B/56 |

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

# Alternatively, these may be marked adjacent to the verification mark.

### 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

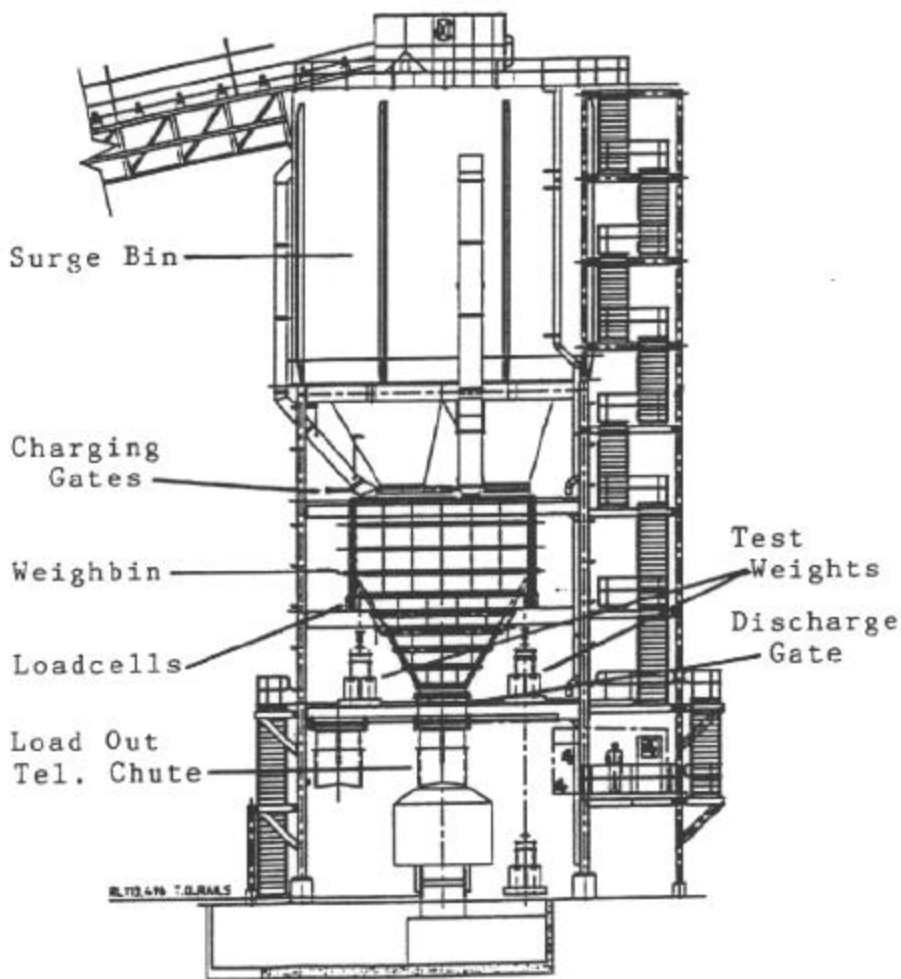
The maximum permissible errors for increasing and decreasing loads on initial verification/certification for loads,  $m$ , expressed in verification scale intervals,  $e$ , are:

$\pm 0.5 e$  for loads  $0 \leq m \leq 500$ ;

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

$\pm 1.5 e$  or loads  $2\,000 < m \leq 10\,000$ .

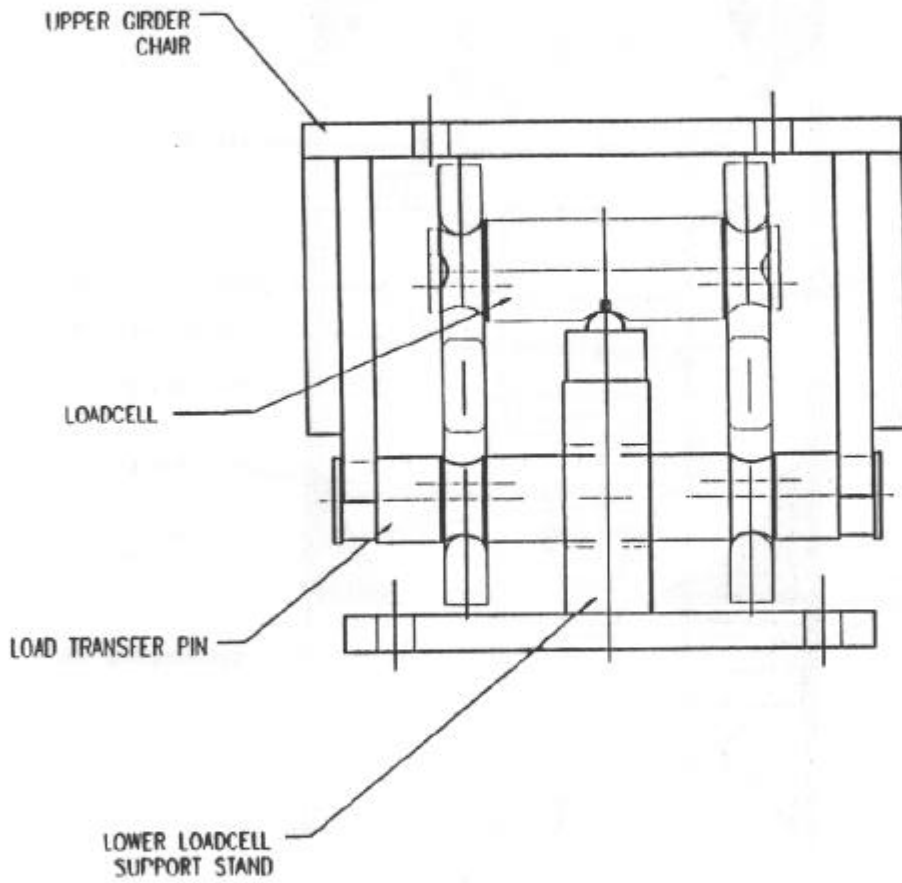
FIGURE 6/10B/56 - 1



VIEW LOOKING EAST  
SHEETING AND SOME STEELWORK NOT SHOWN

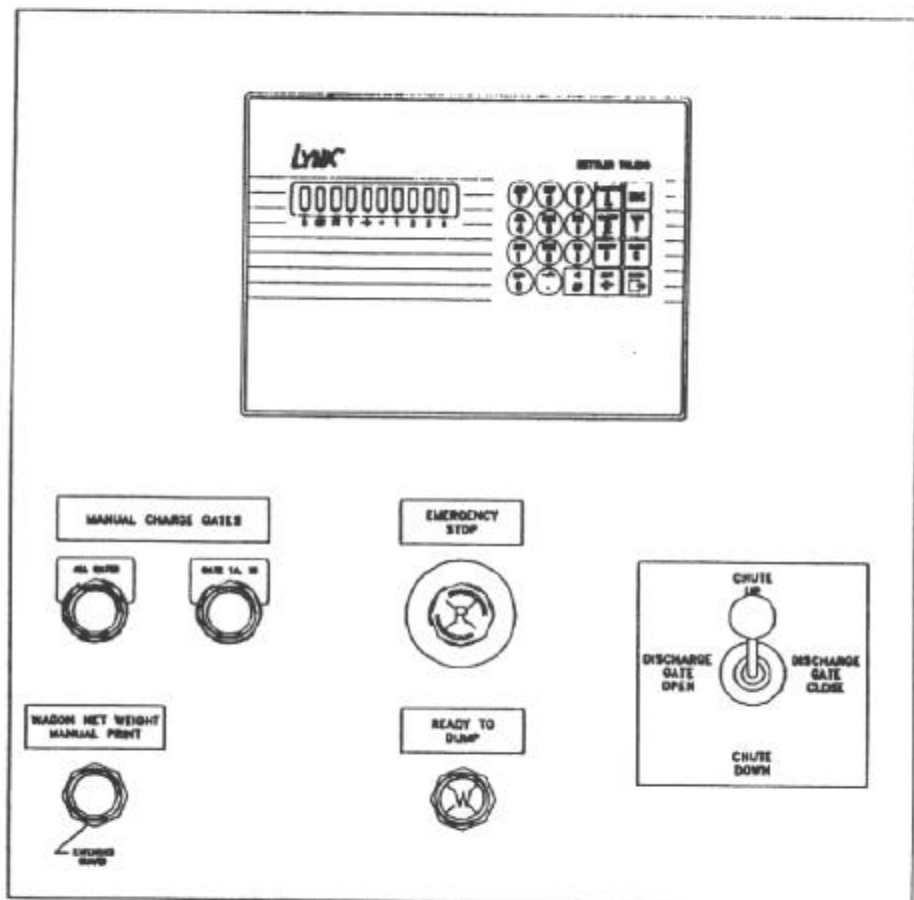
KSS Model BWS9000 Weighing Instrument

FIGURE 6/10B/56 - 2



Showing Load Cell Mounting

FIGURE 6/10B/56 - 3



Mettler Toledo Model LYNX Digital Indicator