



NATIONAL STANDARDS COMMISSION
WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/18/4A

This is to certify that an approval has been granted by the Commission that the pattern and variants of the

Avery Model 4125 CUB Overhead-track Weighing Instrument

submitted by Avery Australia Limited
3-5 Birmingham Avenue
Villawood, New South Wales, 2163

are suitable for use for trade.

In this Certificate the pattern and variants originally approved in Certificate No 6/18/3 have been reviewed. Certificate No 6/18/4 will expire on 1/12/83 with the effect that no new instruments purporting to comply with that Certificate will be accepted for verification after that date.

This approval is subject to review on or after 1/11/88.

Instruments purporting to comply with this approval shall be marked NSC No 6/18/4A.

The approval may be withdrawn if instruments are used other than as described in the drawings and specifications lodged with the Commission.

Signed

J. P. Selin
Executive Director

Descriptive Advice

Pattern: approved 18/10/83

- Avery model 4125 self-indicating overhead-track weighing instrument of 250 kg maximum capacity with a model CUB dial indicator and approved for use with up to 500 scale intervals.

Variants: approved 18/10/83

- With the indicating mechanism of the pattern replaced by an Avery model 8653 digital indicator and an HBM model Z6H2 50 kg load cell, with a maximum capacity of 250 kg and approved for use with up to 2500 scale intervals.
- With the indicating mechanism of the pattern replaced by a Commission-approved load cell and digital indicator.

Technical Schedule No 6/18/4A dated 9/11/83 describes the pattern and variants.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/18/4A dated 9/11/83
Technical Schedule No 6/18/4A dated 9/11/83
Test Procedure No 6/18/4A dated 9/11/83
Figures 1 to 3 dated 9/11/83.

9/11/83



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/18/4A

Pattern: Avery Model 4125 CUB Overhead-track Weighing Instrument

Submitter: Avery Australia Limited
3-5 Birmingham Avenue
Villawood, New South Wales, 2163.

1. Description of Pattern

An Avery self-indicating overhead-track weighing instrument of 250 kg maximum capacity mounted in a permanently fixed position.

The pattern comprises:

- (a) An Avery model 4125 overhead-track lever system (Figure 1) with a weigh rail of 500 mm nominal length, and approved for use with up to 2500 scale intervals.
- (b) An Avery model CUB indicating mechanism (Figure 2) with either a single or dual dial indicator and approved for use with up to 500 scale intervals.

1.1 Markings

The instrument is marked with the following data, together in a clearly visible location:

Manufacturer's name or mark	
Model number	
Serial number of instrument	
NSC approval number	NSC No 6/18/4A
Accuracy class	III
Maximum capacity	Max kg
Minimum capacity	Min kg
Verification scale interval	e = d = .. kg

1.2 Verification Mark

Provision is made for a verification mark to be applied.

2. Description of Variants

2.1 Variant 1

With the transfer lever and CUB indicating mechanism replaced by an HBM Z6H2 50 kg load cell (NSC approval No S135) and an Avery 8653 digital indicator (NSC approval No S113) modified to incorporate a separate tare indicator. This instrument (Figure 3) has a maximum capacity of 250 kg and may be used with up to 2500 scale intervals.

2.2 Variant 2

With the indicating mechanism of the pattern replaced by a Commission-approved load cell and digital indicator.

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TEST PROCEDURE No 6/18/4A

All load applications should be in accordance with the Commission's recommended testing procedure for the elimination of rounding error, as set out in Document 104.

Where applicable, this Test Procedure should be carried out in conjunction with any tests in the approval documents for the load cell and for the digital indicator.

The maximum permissible errors are:

- $\pm 0.5e$ for loads between 0 and 500e;
- $\pm 1.0e$ for loads between 501e and 2000;
- $\pm 1.5e$ for loads above 2000e.

1. Zero Range

The maximum range of operation of the zero device should not exceed 4% of the capacity of the instrument ($\pm 2\%$ approximately).

2. Test Loads

Test loads are to be applied to the instrument at the centre of the weigh rail in not less than 5 approximately equal steps increasing to maximum capacity, followed by decreasing loads in not less than 5 approximately equal steps to zero load.

This test should be repeated at each end of the weigh rail.

The instrument should display these loads within the applicable tolerance as listed above.

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NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/18/4A

CHANGE No 1

The following change is made to the approval documentation for the

Avery Model 4125 CUB Overhead-track Weighing Instrument

submitted by Avery Australia Limited
3-5 Birmingham Avenue
Villawood, New South Wales, 2163.

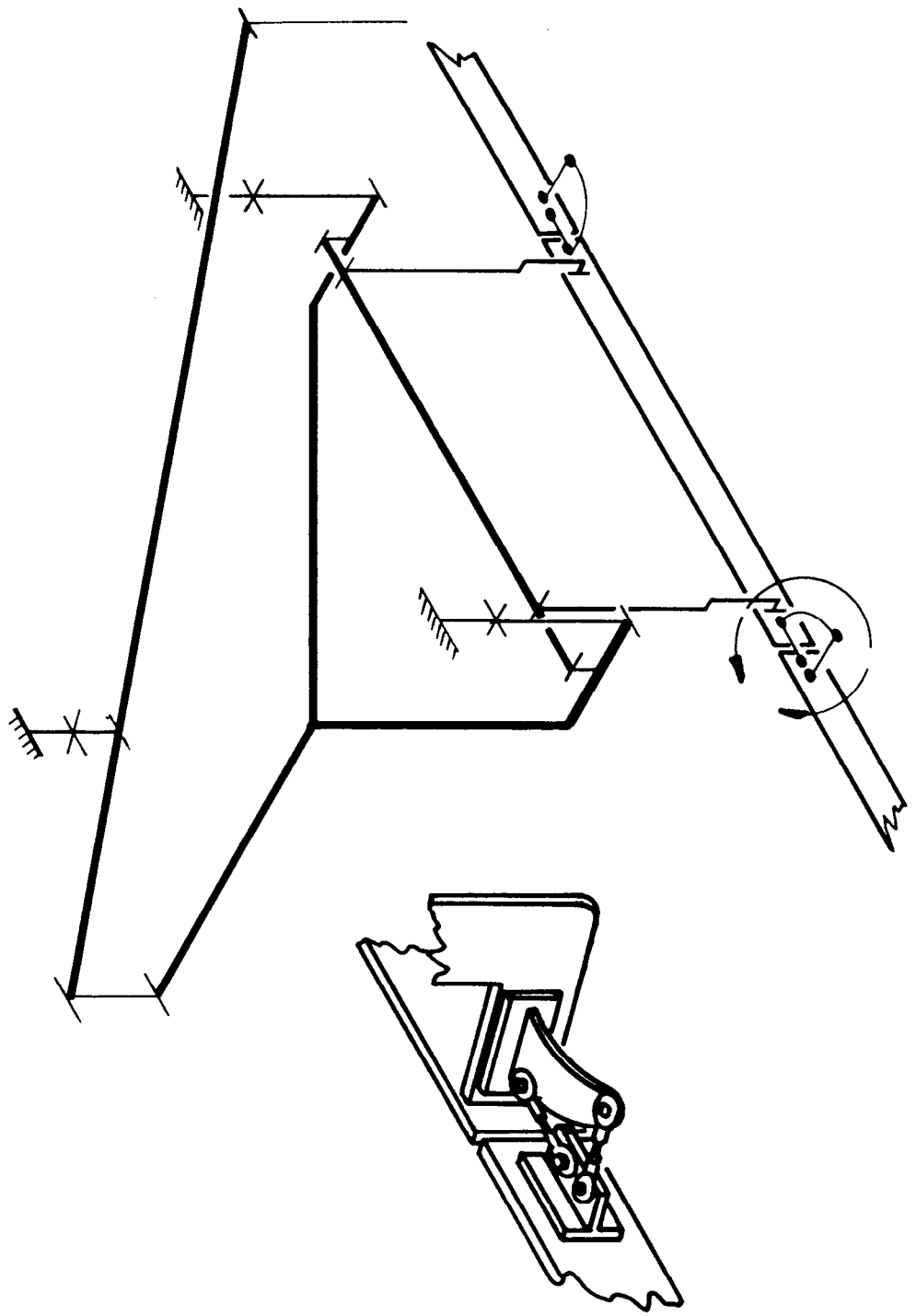
In Technical Schedule No 6/18/4A dated 9/11/83, paragraph 1(b) should be amended to read:

- (b) An Avery model CUB spring-resistant indicating mechanism (Figure 2) as described in the documentation of NSC Approval No 6/9C/41A having either oil-filled or air dashpots and connected to a single or double-sided dial indicator and approved for use with up to 500 scale intervals.

Signed

Executive Director

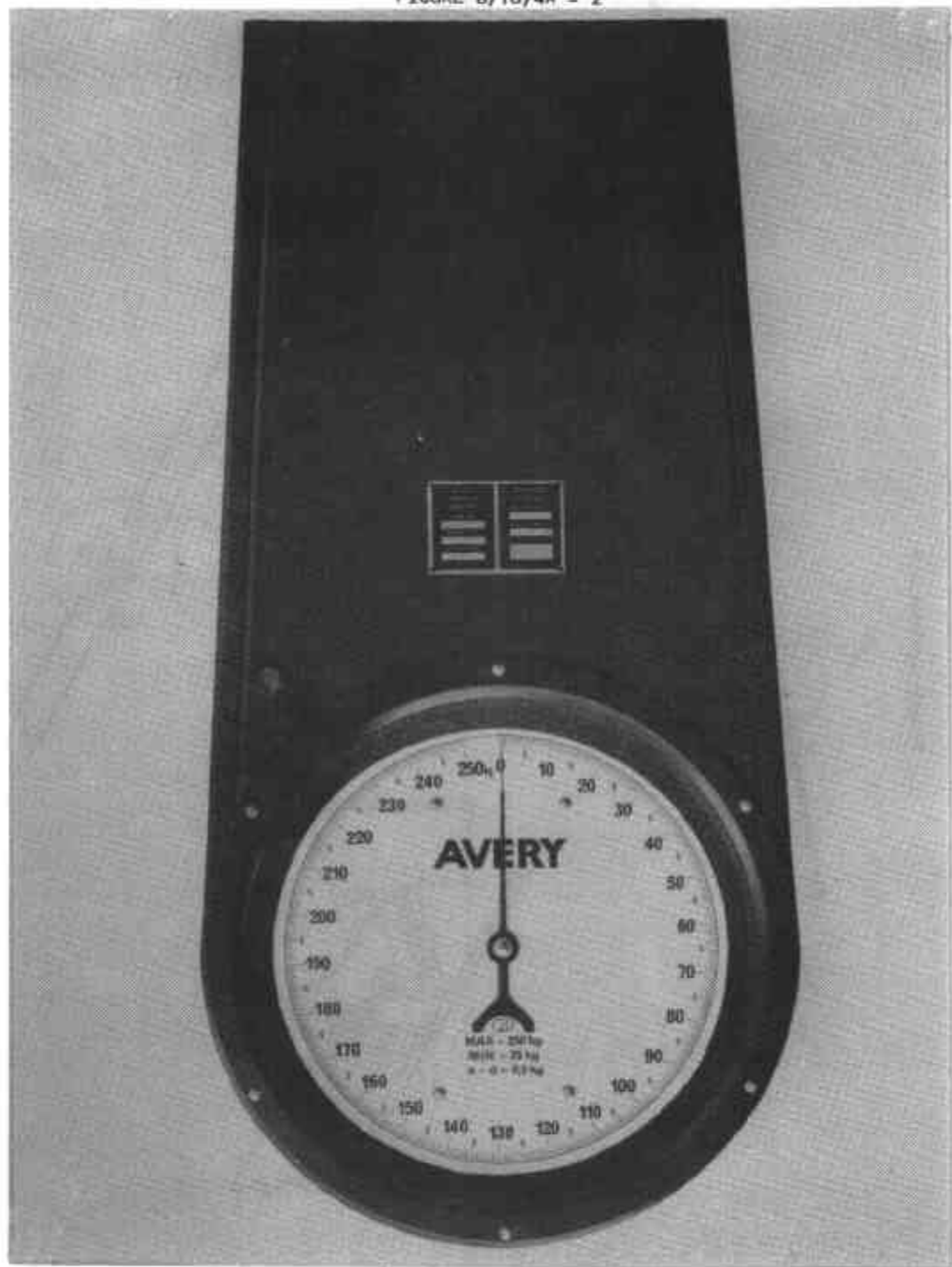
FIGURE 6/18/4A - 1



Avery 4125 CUB Overhead-track Lever System

9/11/83

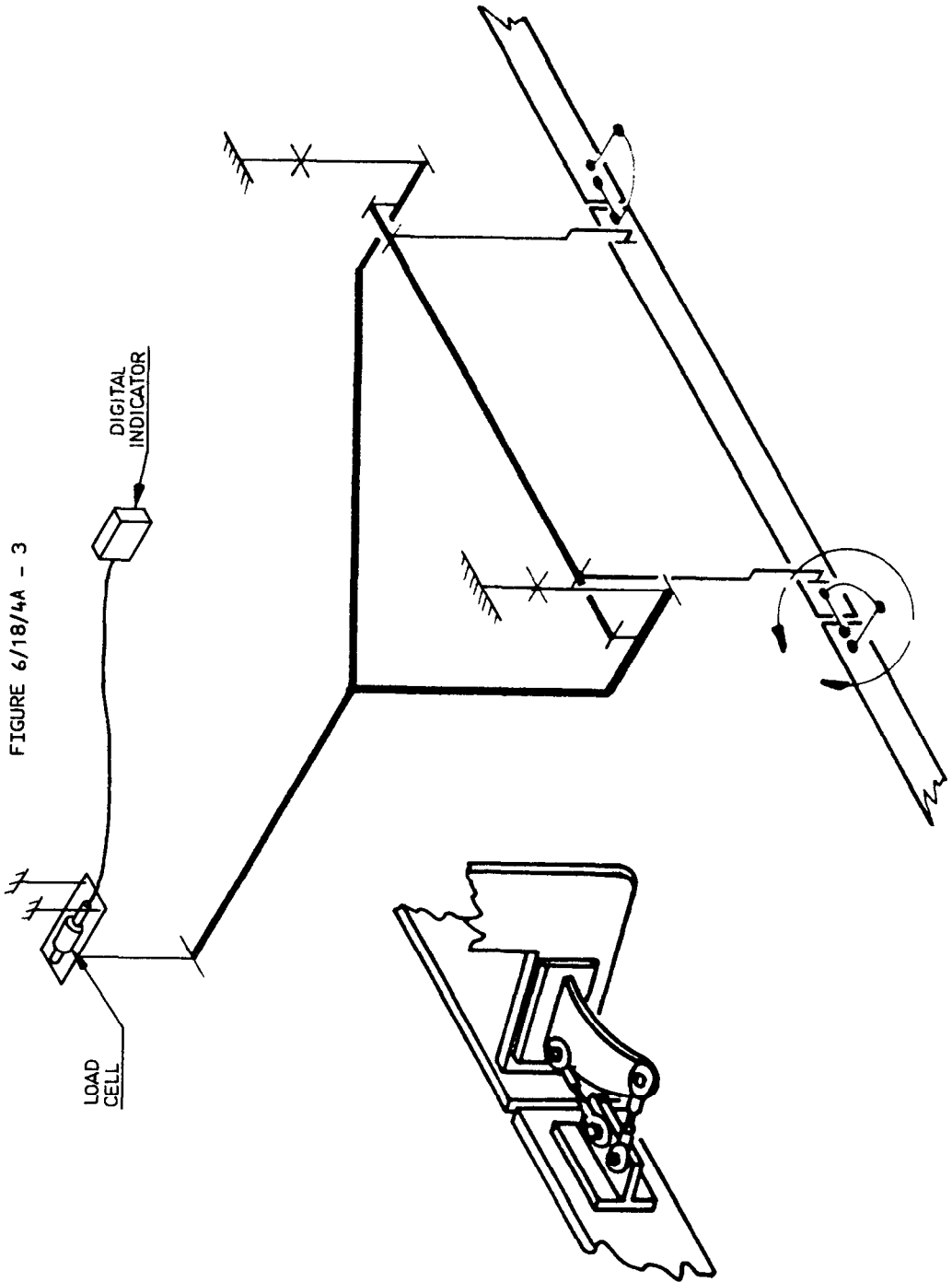
FIGURE 6/18/4A - 2



Model CUB Indicator

9/11/83

FIGURE 6/18/4A - 3



Avery 4125/Load Cell/Digital Indicator Overhead-Track Level System