NATIONAL STANDARDS COMMISSION

WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/18/17

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

Mercury Model OHT-500 Overhead-track Weighing Instrument

submitted by Mercury Weighing And Control Systems Pty Ltd
32 Dew Street
Thebarton, South Australia, 5031

are suitable for use for trade.

The approval is subject to review on or after 1/12/88.

Instruments purporting to comply with this approval shall be marked NSC No 6/18/17.

The approval may be withdrawn if instruments are used other than in accordance with the drawings and specifications lodged with the Commission.

Condition of Approval

The load cells to be used shall be subject to regular certification by the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 11/11/83

. Mercury model OHT-500 self-indicating overhead-track weighing instrument of 500 kg maximum capacity with digital indication.

Variant: approved 11/11/83

1. With the indicator of the pattern replaced by other Commission-approved digital indicators.

Technical Schedule No 6/18/17 dated 30/11/83 describes the pattern and variant.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/18/17 dated 30/11/83
Technical Schedule No 6/18/17 dated 30/11/83
Test Procedure No 6/18/17 dated 30/11/83
Figures 1 and 2 dated 30/11/83.

30/11/83

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/18/17

Pattern: Mercury Model OHT-500 Overhead-track Weighing Instrument

Submittor: Mercury Weighing And Control Systems Pty Ltd
32 Dew Street
Thebarton, South Australia, 5031.

1. Description of Pattern

A Mercury self-indicating overhead-track weighing instrument (Figure 1) of 500 kg maximum capacity with 0.5 kg scale intervals, mounted in a permanently fixed position, and approved for use with up to 1000 scale intervals.

The instrument comprises:

a) A weigh rail of 450 mm nominal length,

b) Two Transducer model B 5112 1K load cells of 450 kg capacity (Supplementary Certificate No S163) mounted as shown in Figure 2, and

c) A Mercury model 579 digital indicator (Supplementary Certificate No S114).

1.1 Marking

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

Manufacturer's name or mark		
Serial number of instrument		
NSC approval number	NSC No 6/18/17	
Accuracy class	(III)	
Maximum capacity in the form:	Max	kg*
Minimum capacity in the form:	Min	kg*
Verification scale interval in the form:	e = d = ...	kg*

2. Description of Variant 1

With the indicator of the pattern replaced by other Commission-approved digital indicators.

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* Repeated in the vicinity of every reading face.

TEST PROCEDURE No 6/18/17

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.

The maximum permissible errors are:

$\pm$0.5e for loads between 0 and 500e;

$\pm$1.0e for loads between 501e and 1000e.

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. Zero Test

Check using Document 104, that when the zero light is illuminated, zero is set within 0.25e.

3. Range of Indication

(a) The maximum mass indicated should not exceed the maximum capacity (Max) by more than 10 scale intervals; above this, the indicator should blank or show non-numerical symbols.

(b) The minimum mass indicated should be zero; below this the indicator should blank or display the mass prefixed by a minus sign.

4. 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 of not less than 5 approximately equal steps.

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.

NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

VARIOUS CERTIFICATES OF APPROVAL

The following changes are made to the approval documentation for the approvals listed overleaf

submitted by Mercury Weighing and Control Systems Pty Ltd
32 Dew Street
Thebarton SA 5031.

In the Certificates and Technical Schedules listed, the following changes should be made:

1) The submittor should be changed to read;

A & D Mercury Pty Ltd

(the address remains unchanged)

2) Any Mercury instrument or component of an instrument approved in the documentation, may now also be known as "AND Mercury" or similar.

Signed

J. Birch.

Executive Director

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APPROVAL	PATTERN
TYPE: weighing instruments counter scales	
6/3/007	Model 92
6/3/008	Model 131
TYPE: counter machines semi-self-indicating	
6/4A/012	Model 304A
TYPE: counter machines freely-suspended < 30 kg (spring scales)	
6/5/011	Model 211 DA
TYPE: weighing instruments non-self-indicating	
6/9A/001	Models 692 and 682
6/9A/004	Model 522D
6/9A/007	Model 211
6/9A/008	Model 600
TYPE: weighing instruments self-indicating	
6/9C/005	Model 211D
6/9C/013	Up to 2500 lb or 1200 kg
6/9C/066	Model 522 AL
6/9C/067	Model SM100/479/522D
6/9C/081	Model SB-LP 1200
6/9C/088	Model 522D LT-10K
TYPE: weighbridges self-indicating	
6/10B/040	Model WB-LT
6/10B/045A	Model RVB-H20
TYPE: automatic weighing instruments (except belt conveyors)	
6/14B/012	Model HSD automatic hopper
TYPE: overhead weighing instrument (suspended load or receptor)	
6/18/005	With 211DA headwork
6/18/017	Model OHT 500
TYPE: digital indicators	
S114	Model 579
S128	Model 1300
S132	Model 900
S161	Model AD4316
S199	Model AD-4321
TYPE: load cells	
S117	Interface model SM25-12 kg
S163	Transducers model B5112.1K
S221	HBM model TRT-50 (Mercury model TRT3K-50)

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NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/18/17

CHANGE No 1

The following change is made to the approval documentation for the

Mercury Model OHT-500 Overhead-track Weighing Instrument

submitted by Mercury Weighing And Control Systems Pty Ltd
32 Dew Street
THEBARTON SA 5031.

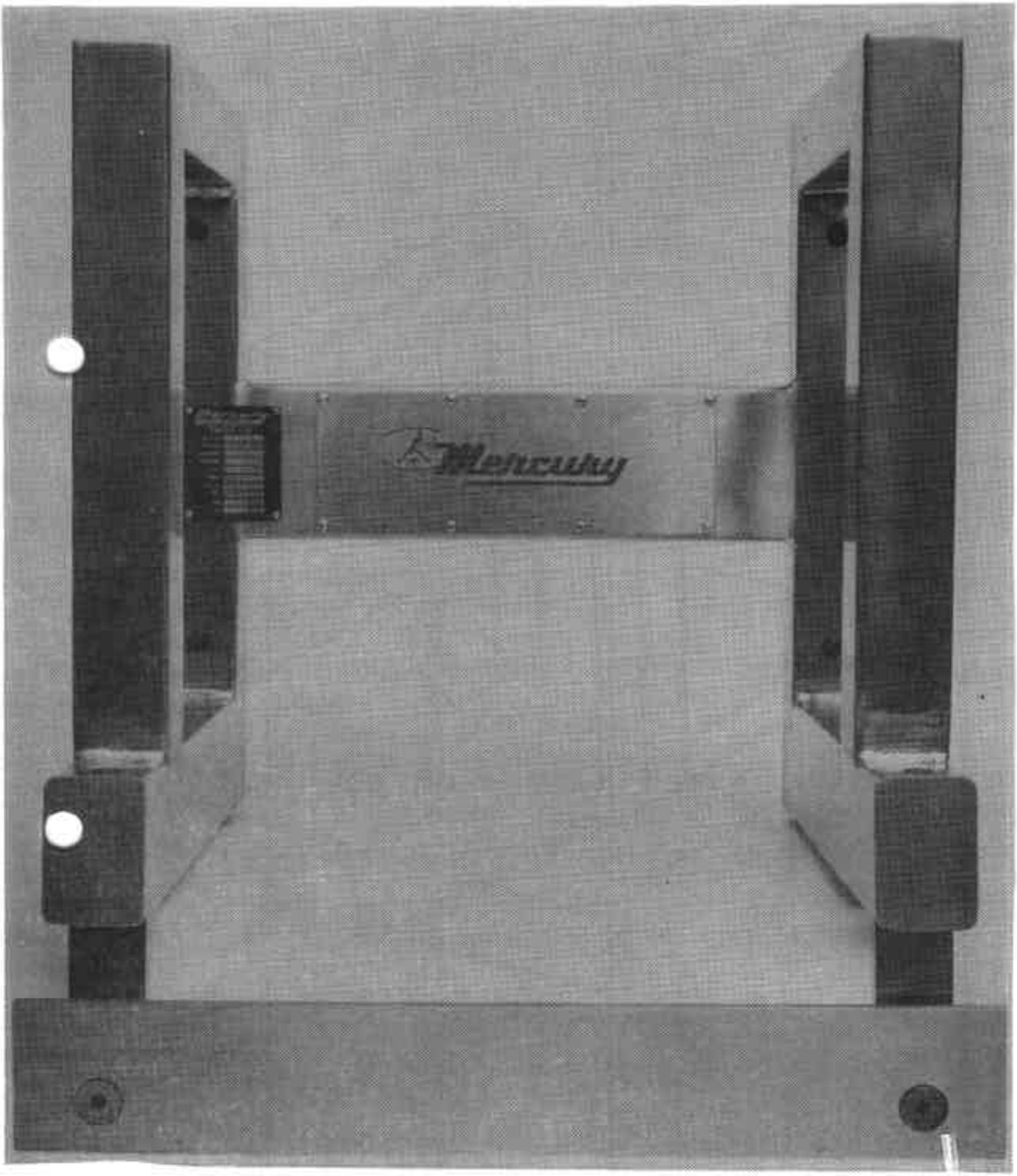
In Technical Schedule No 6/18/17 dated 30/11/83, the description given in paragraph 1(a) should be changed to read;

"A weigh rail up to 1220 mm long,"

Signed

Acting Executive Director

FIGURE 6/18/17 - 1



Mercury Model OHT - 500

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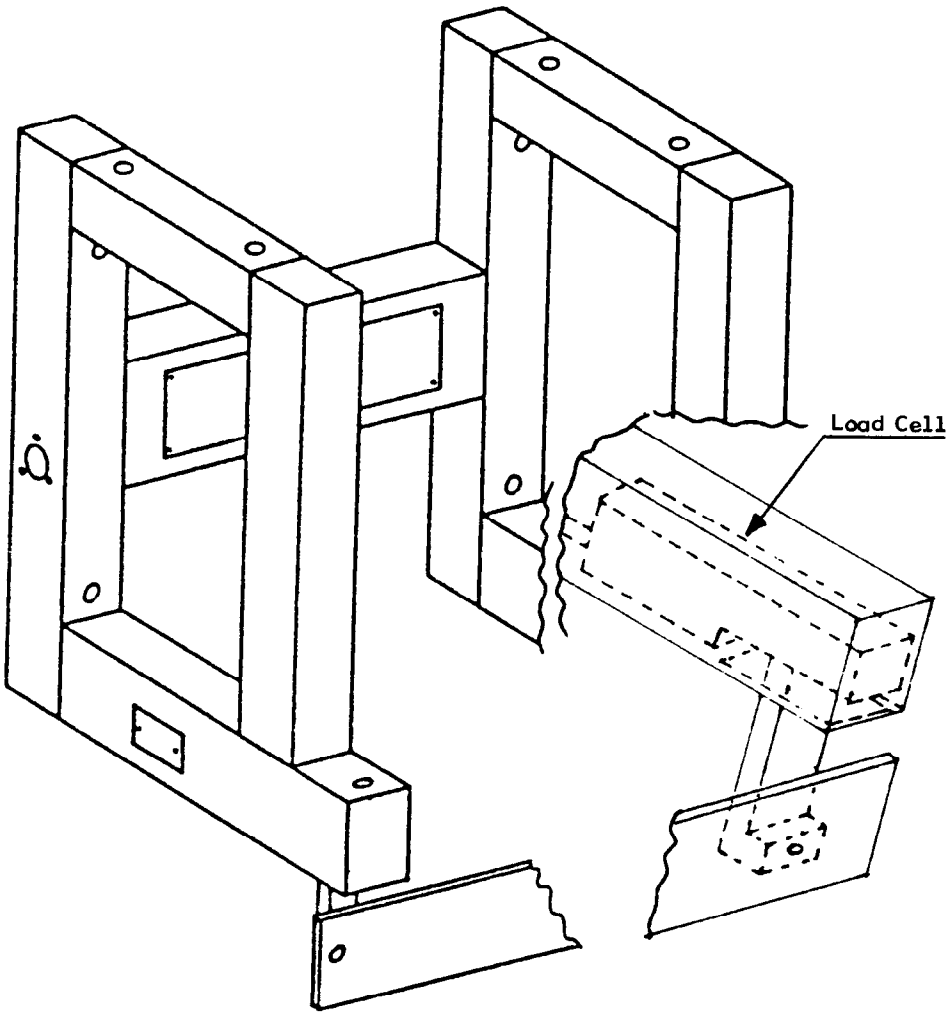
FIGURE 6/18/17 - 2



Model OHT-500

Showing Load Cell Mounting

30/11/83