NATIONAL STANDARDS COMMISSION

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/9C/88

This is to certify that an approval has been granted that the pattern of the

Mercury Model 522D LT-10K Weighing Instrument

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

is suitable for use for trade.

Conditions of Approval

This approval is subject to review on or after 1/6/90.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/88.

This approval may be withdrawn if instruments are constructed and used other than in accordance with the drawings and specifications lodged with the Commission.

The number of scale intervals applicable to the weighing instrument shall be no greater than the number of verification scale intervals approved for the basework, or the load cell, or the headwork, whichever is the smallest.

Signed

Executive Director

Descriptive Advice

Pattern: approved 22/5/85

- Mercury model 522D LT-10K self-indicating weighing instrument of up to 10000 kg capacity.

Technical Schedule No 6/9C/88 describes the pattern.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/9C/88 dated 29/7/85
Technical Schedule No 6/9C/88 dated 29/7/85
Test Procedure No 6/9C/88 dated 29/7/85
Figures 1 to 3 dated 29/7/85

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9C/88

Pattern: Mercury Model 522D LT-10K Weighing Instrument

Submittor: Mercury Weighing and Control Systems Pty Ltd
32 Dew Street
Thebarton SA 5031

1. Description of Pattern

A self-indicating platform weighing instrument of up to 10000 kg capacity and approved for use with up to 2000 verification scale intervals.

1.1 Basework

The basework (Figures 1 and 2), comprises a load receptor supported by a 3-lever system and an HBM model Z3H2 load cell, and is permanently fixed either above ground or set into a pit.

1.2 Load Cell

The HBM model Z3H2 load cell of 100 kg capacity, as described in NSC approval No S121, is mounted at the nose-end of the transfer lever as shown in one of the methods illustrated in Figure 2.

1.3 Indicator

A Mercury model AD-4316 digital indicator as described in NSC approval No S161 (Figure 3).

1.4 Markings

The instrument is marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number of the instrument	
Approval number	NSC No 6/9C/88
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*

1.5 Verification Provision

Provision is made for a verification mark to be applied.

---

* Repeated in the vicinity of each reading face.

TEST PROCEDURE No 6/9C/88

Instruments should be tested in conjunction with any test procedure in the approval documentation for the indicator.

The maximum permissible errors are:

± 0.5e for loads between 0 and 500e;
± 1.0e for loads between 501e and 2000e; and
± 1.5e for loads above 2000e.

1. Zero Range

Check that the range of the zero adjustment is not more than 4% of the maximum capacity (± 2% approximately). With zero balance indicated, apply a load of, say, 2.5% of maximum capacity to the instrument, and adjust the zero control; the instrument should not rezero.

2. Test Loads

Test loads are to be applied to the complete weighing instrument increasing in not less than 5 approximately equal steps to maximum capacity, followed by decreasing loads in not less than 5 approximately equal steps to zero load.

25/3/88

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

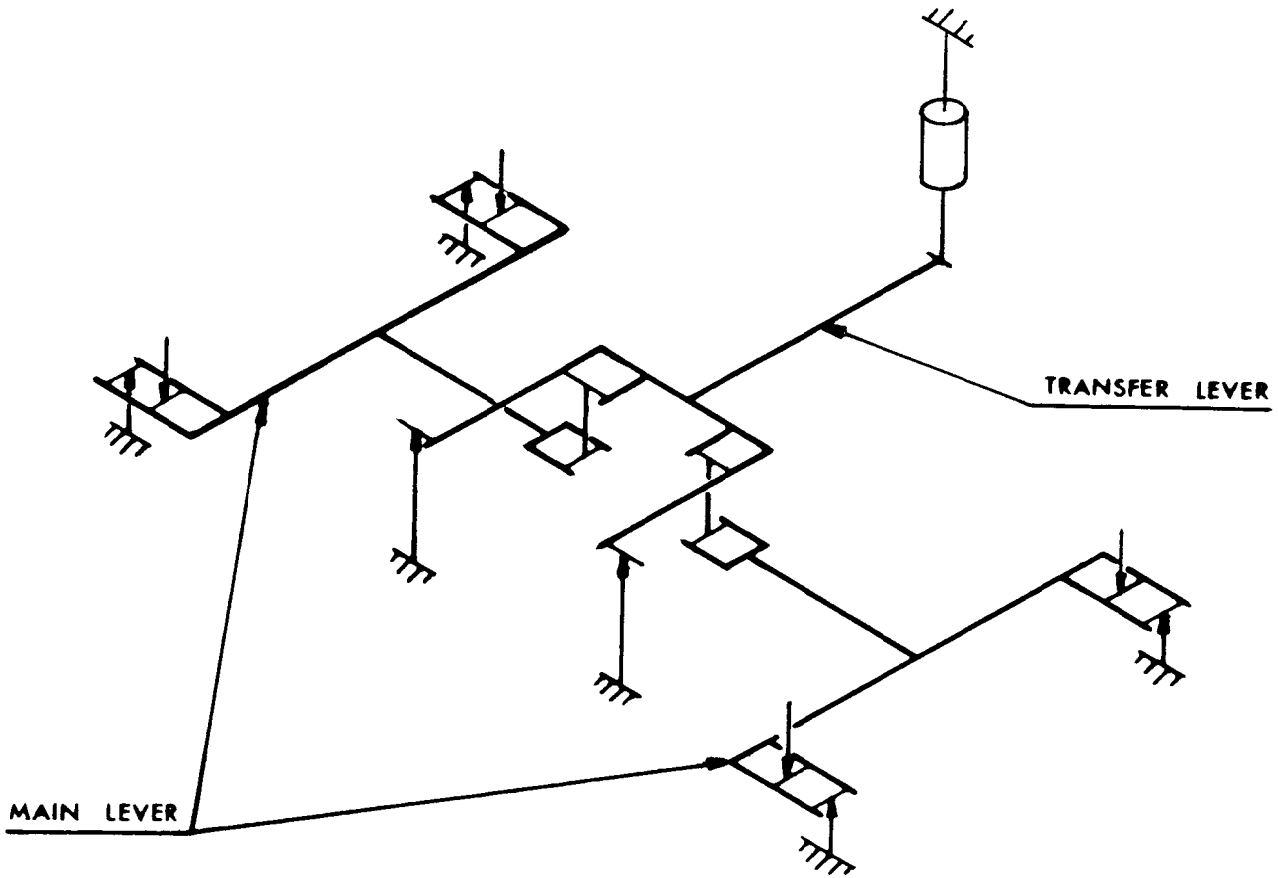
J. Birch.

Executive Director

..../2

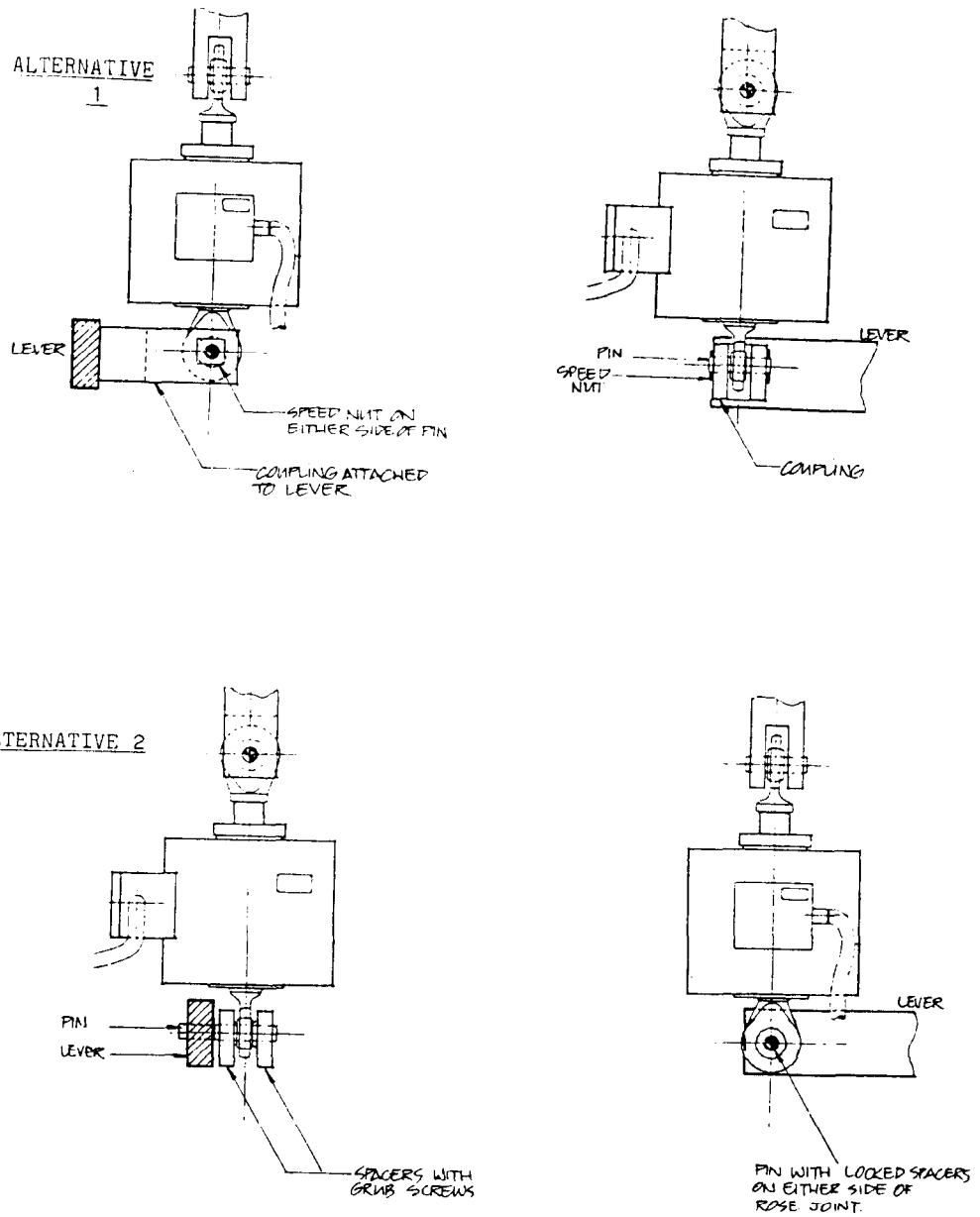
APPROVAL	PATTERN
TYPE: weighing instruments counter scales	
6/3/007	Model 92
6/3/008	Model 131
TYPE: counter machines semi-self-indicating	
6/4A/012	Model 304A
TYPE: counter machines freely-suspended < 30 kg (spring scales)	
6/5/011	Model 211 DA
TYPE: weighing instruments non-self-indicating	
6/9A/001	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)

FIGURE 6/9C/88 - 1



Three-lever Basework - Schematic Diagram

FIGURE 6/9C/88 - 2



Load Cell Mounting Methods

FIGURE 6/9C/88 - 3

Mercury AD-4316 Indicator