National Standards Commission

Certificate of Approval

No 6/9C/220

Issued under Regulation 9
of the
National Measurement (Patterns of Instruments) Regulations

This is to certify that an approval for use for trade has been granted in respect of the

AND Mercury Model ELP 3000 Weighing Instrument

submitted by A & D Mercury Pty Ltd
32 Dew Street
Thebarton SA 5031.

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.

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CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/10/93.
This approval expires in respect of new instruments on 1/10/94.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/220 and only by persons authorised by the submittor.

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.

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

The values of the performance criteria (maximum number of scale intervals etc.) applicable to the instrument shall be within the limits specified herein and in any approval documentation for the components where they are approved separately.

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.

DESCRIPTIVE ADVICE

Pattern: approved 21/9/88

- An A & D Mercury Model ELP 3000 self-indicating weighing instrument of 3000 kg maximum capacity.

Variant: approved 30/11/88

1. Model SB-LP of up to 1500 kg maximum capacity.

Technical Schedule No 6/9C/220 describes the pattern and variant 1.

Variant: approved 5/9/91

2. Model ELP 3000-SW of 3000 kg maximum capacity with a suspended load receptor.

Technical Schedule No 6/9C/220 Variation No 1 describes variant 2.

FILING ADVICE

Certificate of Approval No 6/9C/220 dated 20/1/89 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/9C/220 dated 13/1/92
Technical Schedule No 6/9C/220 dated 20/1/89 (incl. Test Procedure)
Technical Schedule No 6/9C/220 Variation No 1 dated 13/1/92
Figures 1 to 3 dated 20/1/89
Figures 4 and 5 dated 13/1/92

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9C/220

Pattern: AND Mercury Model ELP 3000 Weighing Instrument.

Submittor: A & D Mercury Pty Ltd
32 Dew Street
Thebarton SA 5031.

1. Description of Pattern

A self-indicating weighing instrument of 3000 kg maximum capacity and approved for use with up to 3000 verification scale intervals.

1.1 Basework

The model ELP 3000 basework has load cells which fully support the load receptor (Figures 1 and 2). The basework is positioned above ground, with or without loading ramps, or let into a pit in which case the platform is level with the ground. If the instrument is not in a pit or permanently fixed in place, it shall be fitted with a level indicator, adjacent to which is the notice INSTRUMENT MUST BE LEVEL WHEN IN USE.

1.2 Load Cell

Four Precision Transducers model LS1000 load cells of 1000 kg capacity are used as described in the documentation of NSC approval No S224.

1.3 Indicator

An AND Mercury model AD-4316 digital indicator is used as described in the documentation of NSC approval No S161.

1.4 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval numbers - instrument	NSC No 6/9C/220
- load cells	NSC No S.....
- indicator	NSC No S.....
Accuracy class	(III)
Maximum capacity	Max..... kg *
Minimum capacity	Min..... kg *
Verification scale interval	e = d =..... kg *
Maximum subtractive tare	T = -..... kg

* These are repeated adjacent to each reading face.

1.5 Verification Provision

Provision is made for a verification mark to be applied.

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2. Description of Variant 1

A model SB-LP self-indicating weighing instrument of up to 1500 kg maximum capacity and approved for use with up to 3000 verification scale intervals.

The model SB-LP low profile basework may be of the flat-top or the drop-centre type, either as shown in Figure 3 or without the loading ramps.

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.

The results shall not exceed the maximum permissible errors specified in Document 118, 2nd Edition, October 1986.

National Standards Commission

TECHNICAL SCHEDULE No 6/9C/220

VARIATION No 1

Pattern: AND Mercury Model ELP 3000 Weighing Instrument.

Submittor: A & D Mercury Pty Ltd
32 Dew Street
Thebarton SA 5031.

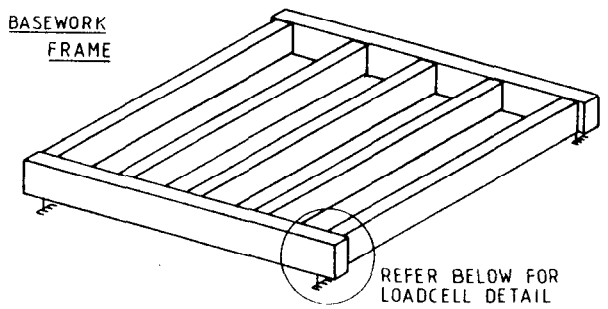
1. Description of Variant 2

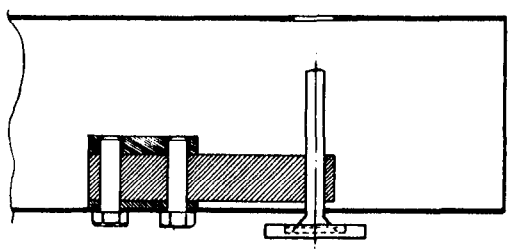
Model ELP 3000-SW weighing instrument of 3000 kg maximum capacity, with the load receptor suspended from the weighing frame by fixed links (Figures 4 and 5).

FIGURE 6/9C/220 - 1

AND Mercury Model ELP 3000

FIGURE 6/9C/220 - 2

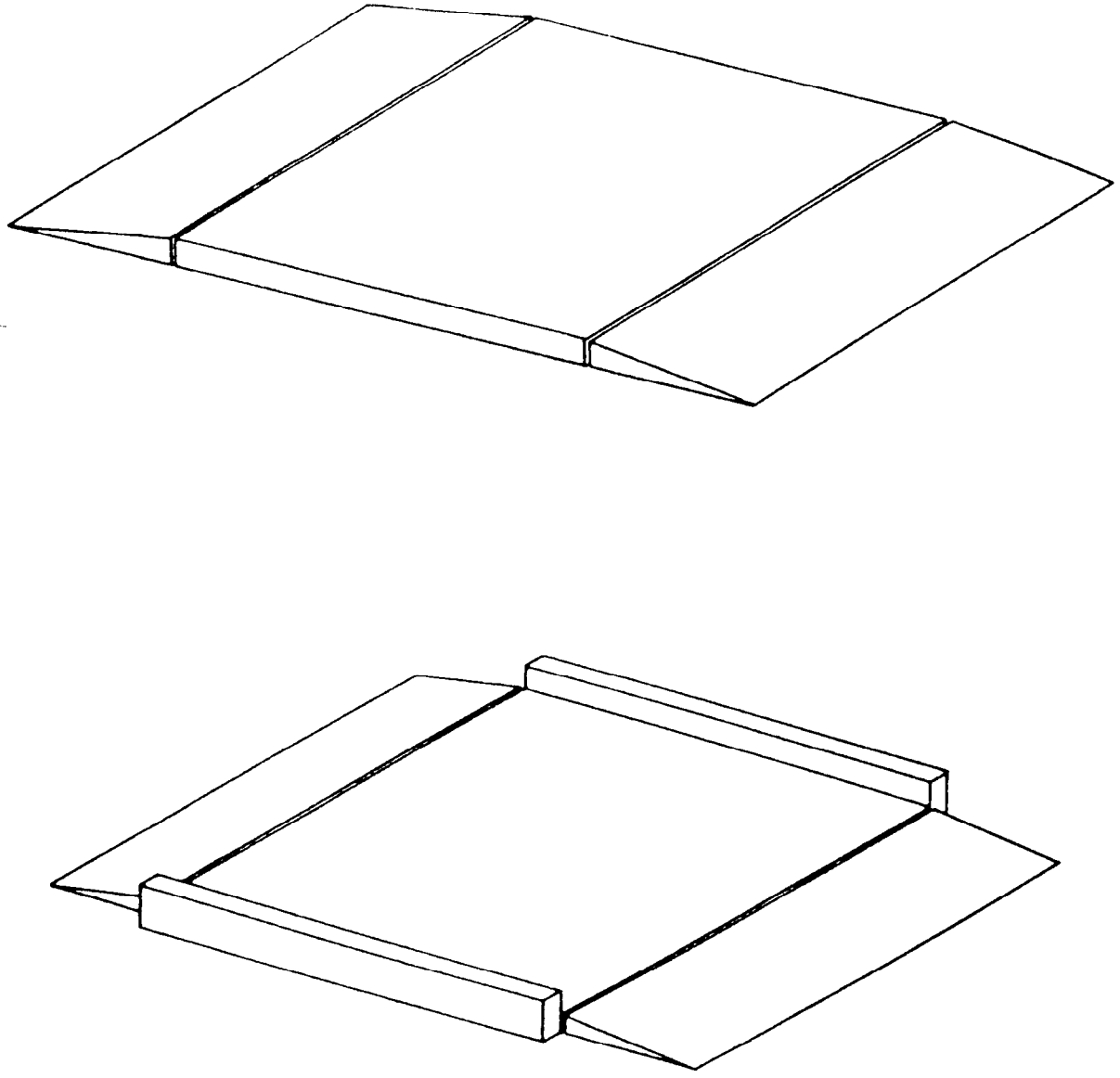




LOADCELL DETAIL

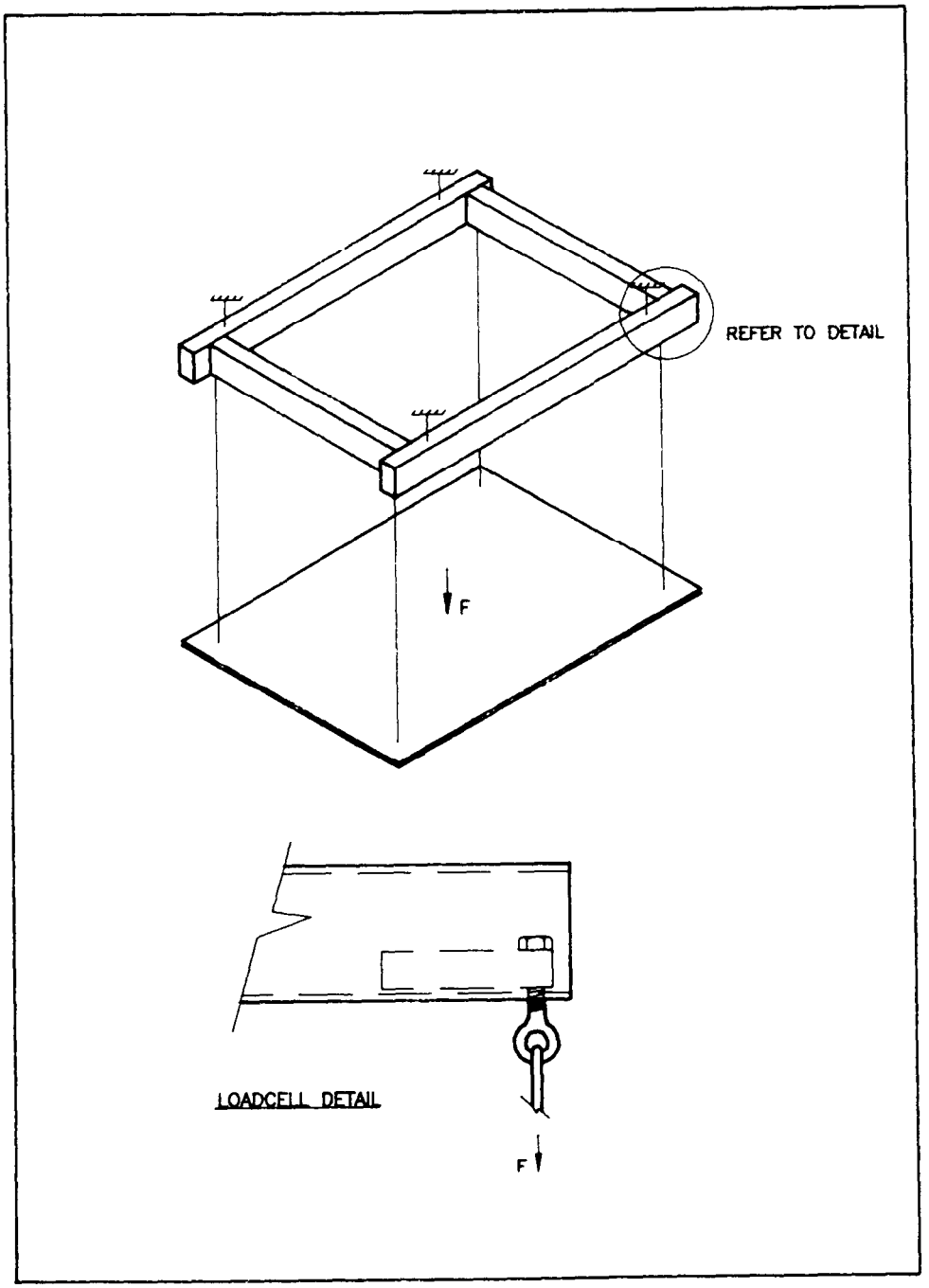
Showing Load Cell Mountings

FIGURE 6/9C/220 - 3



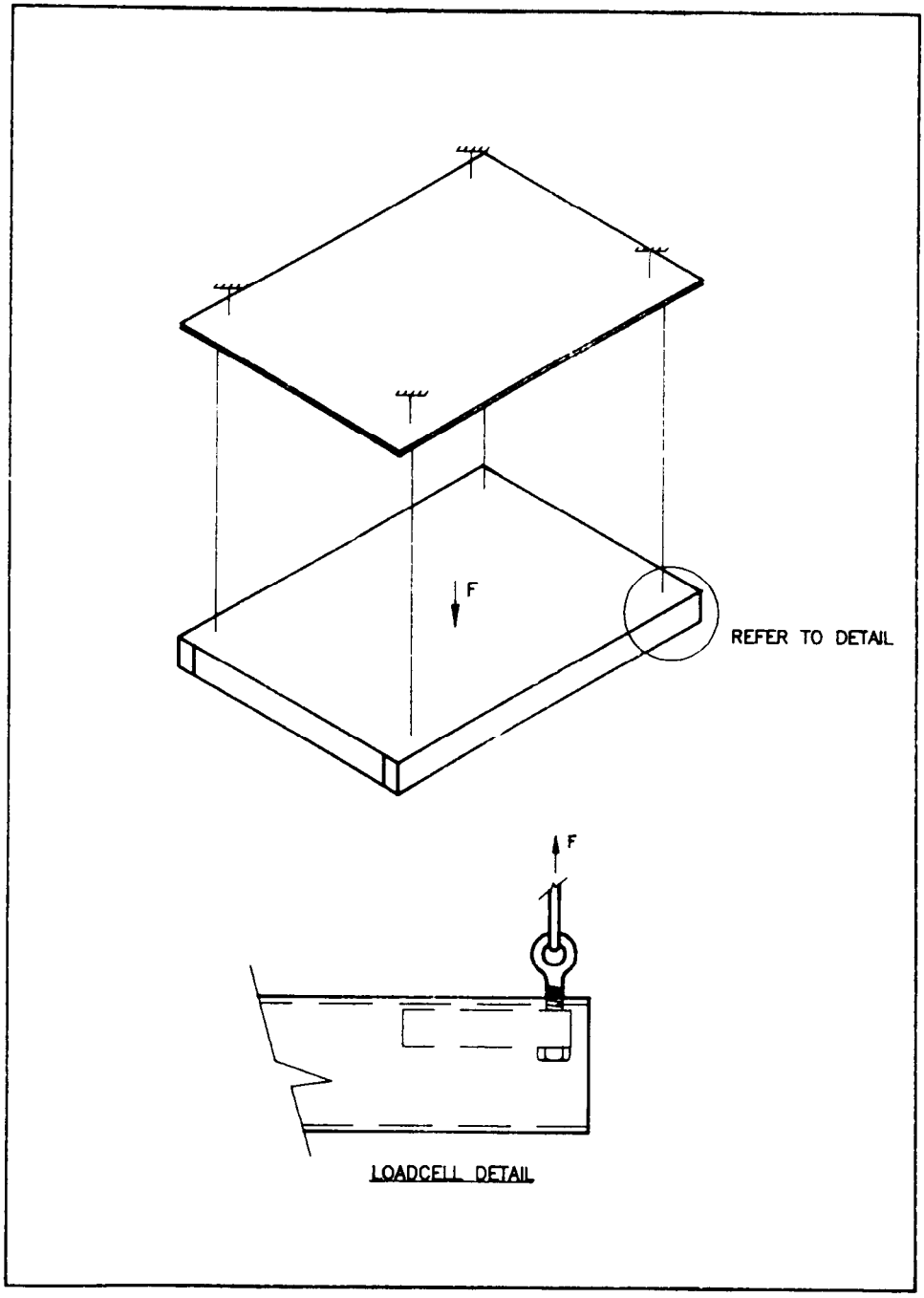
Alternative Model SB-LP Baseworks

FIGURE 6/9C/220 - 4



Typical Model ELP 3000-SW Basework

FIGURE 6/9C/220 - 5



Alternative Model ELP 3000-SW Instrument