



# NATIONAL STANDARDS COMMISSION

6/18/23  
2/1/89

## NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

### REGULATION 9

#### CERTIFICATE OF APPROVAL No 6/18/23

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

Scales and Systems Model SASTR1 Overhead-track Weighing Instrument

submitted by Scales and Systems Pty Ltd  
5 Hercules Street  
Hamilton QLD 4007.

#### 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 6/18/23.

This approval may be withdrawn if Instruments are constructed other than in accordance with the drawings and specifications lodged with the Commission.

The values of the performance criteria (maximum number of scale Intervals etc.) applicable to the Instrument shall be within the limits specified in this approval or in any approval documentation for the components, where they are approved separately.

Signed

Executive Director

#### Descriptive Advice

Pattern: approved 28/9/88

- Scales and Systems model SASTR1 self-indicating overhead-track weighing instrument of 600 kg maximum capacity.

Variant: approved 28/9/88

1. Of up to 500 kg maximum capacity.

Technical Schedule No 6/18/23 describes the pattern and variant 1.

#### Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/18/23 dated 2/1/89  
Technical Schedule No 6/18/23 dated 2/1/89  
Test Procedure No 6/18/23 dated 2/1/89  
Figures 1 and 2 dated 2/1/89



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## TECHNICAL SCHEDULE No 6/18/23

Pattern: Scales and Systems Model SASTR1 Overhead-track Weighing Instrument.

Submittor: Scales and Systems Pty Ltd  
5 Hercules Street  
Hamilton QLD 4007.

### 1. Description of Pattern

A model SASTR1 overhead-track weighing instrument of 600 kg maximum capacity with a verification scale interval of 0.5 kg.

#### 1.1 Trackwork

The model SASTR1 trackwork (Figures 1 and 2) has the weigh-rail up to 1220 mm long suspended from two load cells.

#### 1.2 Load Cells

Two 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

A Gedge model GS1650 digital indicator is used as described in the documentation of NSC approval No S193.

#### 1.4 Markings

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

Manufacturers name or mark	
NSC approval numbers - Instrument	NSC No 6/18/23
- Indicator	NSC No.....
- load cell	NSC No.....
Serial number	
Accuracy class	(III)
Load cell serial number (#)	
Maximum capacity	Max..... kg *
Minimum capacity	Min..... kg *
Verification scale interval	e = d =..... kg *
Maximum subtractive tare	T = -..... kg

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

\* Repeated adjacent to each reading face.

#### 1.5 Verification Mark

Provision is made for a verification mark to be applied.

### 2. Description of Variant 1

Of up to 500 kg maximum capacity with up to 1500 verification scale intervals, using Precision Transducers model LS500 load cells of 500 kg capacity.



TEST PROCEDURE No 6/18/23

This Test Procedure should be carried out in conjunction with any tests in the approval documents for the digital indicator, and in accordance with any relevant tests in the Inspector's Handbook.

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

1. Test Loads

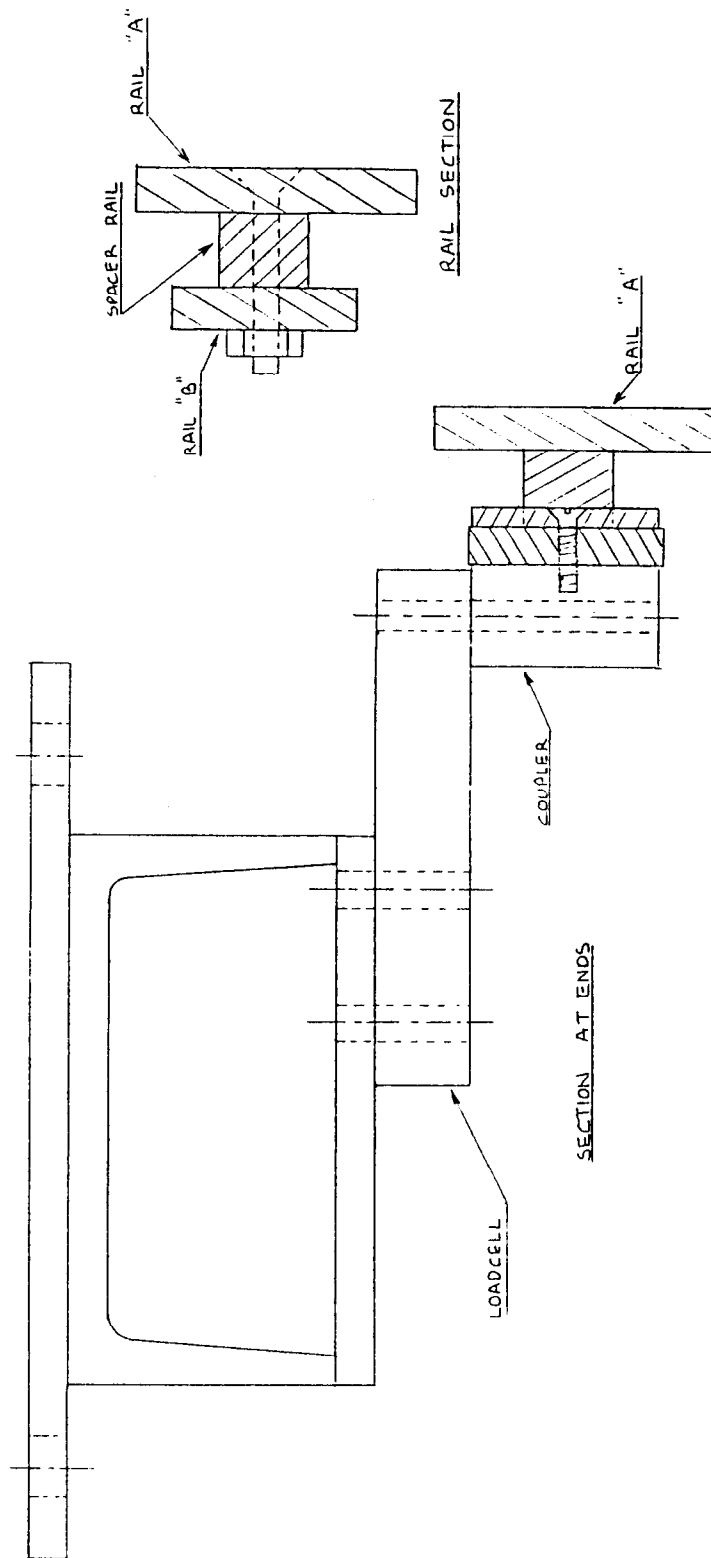
1.1 Initial Verification

- 1.1.1 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.
- 1.1.2 The above test should be repeated at each end of the weigh-rail.

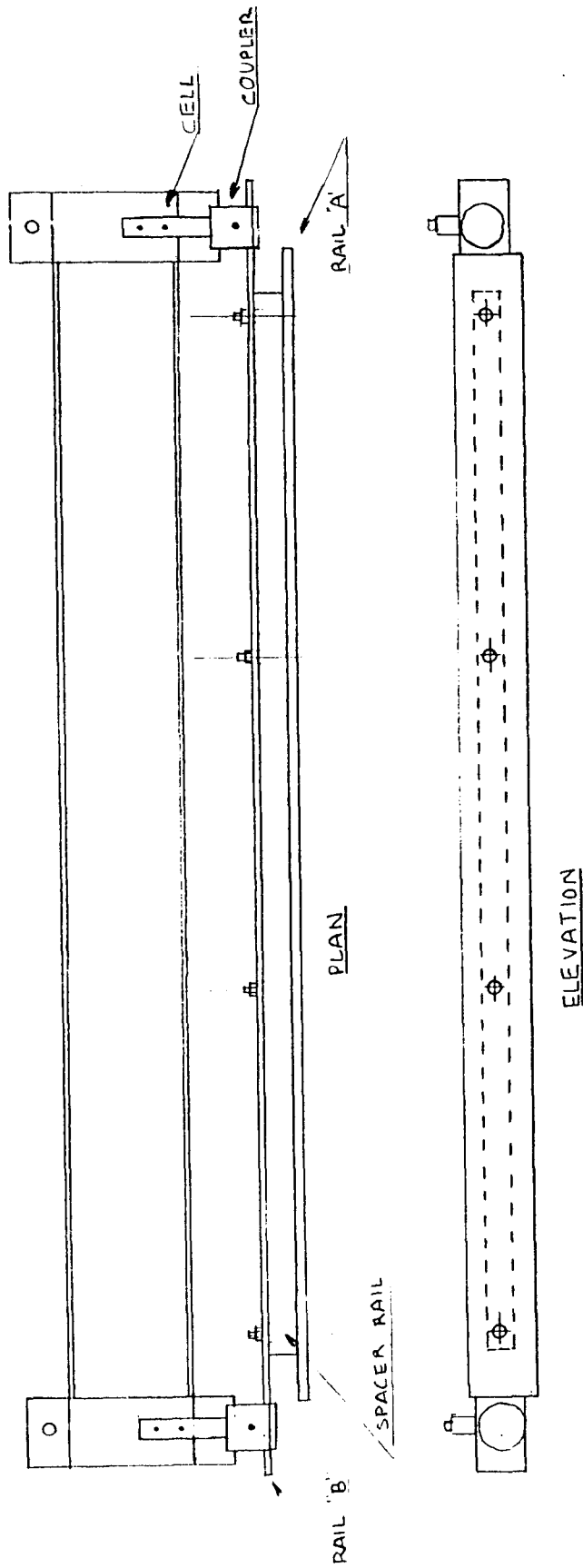
1.2 Subsequent Verifications

- 1.2.1 Perform 1.1.1.
- 1.2.2 Sufficient testing should be undertaken to ensure that the instrument performs within the maximum permissible errors at each end of the weigh-rail.

FIGURE 6/18/23 - 1



Model SASTR1 Trackwork



Showing Load Cell Mounting