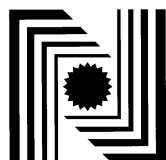
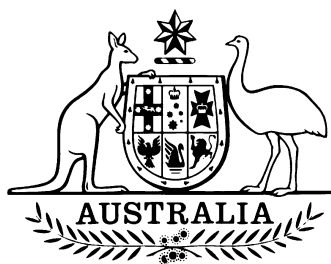


5/6A/201
22 March 2002



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Cancellation

Certificate of Approval

No 5/6A/201

Issued under Regulation 60
of the
National Measurement Regulations 1999

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

Pegrin Model ECC2 Driveway Flowmeter

submitted by Pauls Petroleum Services Pty Ltd
now of 14 Woorang Street
Milperra NSW 2214

has been cancelled in respect of new instruments as from 1 April 2002.

Signed by a person authorised under Regulation 60
of the National Measurement Regulations 1999 to
exercise the powers and functions of the Commission
under this Regulation.



National Standards Commission



Certificate of Approval

No 5/6A/201

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

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

Pegrin Model ECC2 Driveway Flowmeter

submitted by Pauls Petroleum Services Pty Ltd
16 Arkley Street
Bankstown NSW 2200.

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 July 2000, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No5/6A/201 and only by persons authorised by the submitter.

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

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.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

DESCRIPTIVE ADVICE

Pattern: approved 12 June 1995 – re-approved 21 April 1997

- A Pegrin model ECC2 driveway flowmeter approved for use over a flow rate range of 15 to 55 L/min.

Variant: approved 12 June 1995 – re-approved 21 April 1997

1. In certain other configurations.

Technical Schedule No 5/6A/201 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 5/6A/201 dated 19 May 1997
Technical Schedule No 5/6A/201 dated 19 May 1997 (incl. Test Procedure)
Figures 1 and 2 dated 19 May 1997

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

National Standards Commission

TECHNICAL SCHEDULE No 5/6A/201

Pattern: Pegrin Model ECC2 Driveway Flowmeter.

Submittor: Pauls Petroleum Services Pty Ltd
16 Arkley Street
Bankstown NSW 2200.

1. Description of Pattern

A Pegrin model ECC2 dual driveway flowmeter (Figures 1 and 2) approved for use to dispense various grades of petrol over a flow rate range of 15 to 55L/min, in attendant-operated or locally-authorised applications.

1.1 Features

The model ECC2 dual flowmeter comprises two flowmetering systems in the one housing. Each system has the following components or features:

- An Eclipse MVR series electronic price-computing driveway flowmeter indicator, as described in the documentation of NSC approval No S110A.
- A Dresser-Wayne model 2PM6 two-piston positive displacement meter.
- A Dresser-Wayne model 32-44059 combined pump and gas separator.
- A gas separator/detector test valve. Any accumulated gas is exhausted via a float chamber and a vent to atmosphere; provision is made for the valve to be sealed.
- A non-return valve located upstream of the meter.
- A ZVA or any other compatible Commission-approved nozzle.

1.2 Markings

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

Manufacturer's name or mark	
Model number	
Serial number	
NSC approval number	5/6A/201
Maximum flow rate L/min
Minimum flow rate L/min
Maximum operating pressure kPa
Approved for use with (products)

1.3 Sealing and Verification/Certification Provision

Provision is made for the application of a verification/certification mark.

Provision is made for the calibration device of the meter to be sealed by means of the sealing bracket and screw. Provision is also made for the Eclipse indicator to be sealed using the sealing lugs provided.

2. Description of Variant 1

Certain other models and configurations, identified using Tables 1 and 2, and including the following:

- With a preset facility, in which case the second character of the model number is a 'D', e.g. the pattern (model ECC2) becomes model EDC2. Slow flow is controlled by a pilot-actuated flow control diaphragm valve and control valves.
- With a Commission-approved driveway flowmeter control system in which case instruments may be used in remotely-authorized applications, identified by the third character of the model number being an 'S', e.g. the pattern (model ECC2) becomes model ECS2.
- As a single flowmeter, in which case the fourth character of the model number is a '1', e.g. the pattern (model ECC2) becomes model ECC1.
- With a gas purging system consisting of a gas detector and a combined non-return/shut-off valve located upstream of the meter, in which case instruments are approved for use to dispense distillate, identified by a 'D' suffix, e.g. the pattern (model ECC2) becomes model ECC2D.
- With a Dresser-Wayne model 33-44059 combined pump and gas separator, and a gas purging system consisting of a gas detector and a combined non-return/shut-off valve located upstream of the meter, in which case instruments are approved for use with a maximum flow rate of 80 L/min, identified by an 'H' suffix, e.g. the pattern (model ECC2) becomes model ECC2H.

TABLE 1

(Attendant-operated or locally-authorized models only)

MODEL	[WITH PRESET OR PREPAY]	TYPE	PRODUCT	MAX FLOW RATE L/MIN
ECC1	[EDC1]	single	petrol	55
ECC2	[EDC2]	dual	petrol	55
ECC1D	[EDC1D]	single	diesel	55 #
ECC1H	[EDC1H]	single	petrol	80 #
ECC1DH	[EDC1DH]	single	diesel	80 #

TABLE 2

(Attendant-operated, or locally or remotely-authorized models)

MODEL	[WITH PRESET OR PREPAY]	TYPE	PRODUCT	MAX FLOW RATE L/MIN
ECS1	[EDS1]	single	petrol	55
ECS2	[EDS2]	dual	petrol	55
ECS1D	[EDS1D]	single	diesel	55 #
ECS1H	[EDS1H]	single	petrol	80 #
ECS1DH	[EDS1DH]	single	diesel	80 #

NOTE: # A gas detection system is mandatory for products other than petrol, and is required for petrol when the flow rate exceeds 55 L/min.

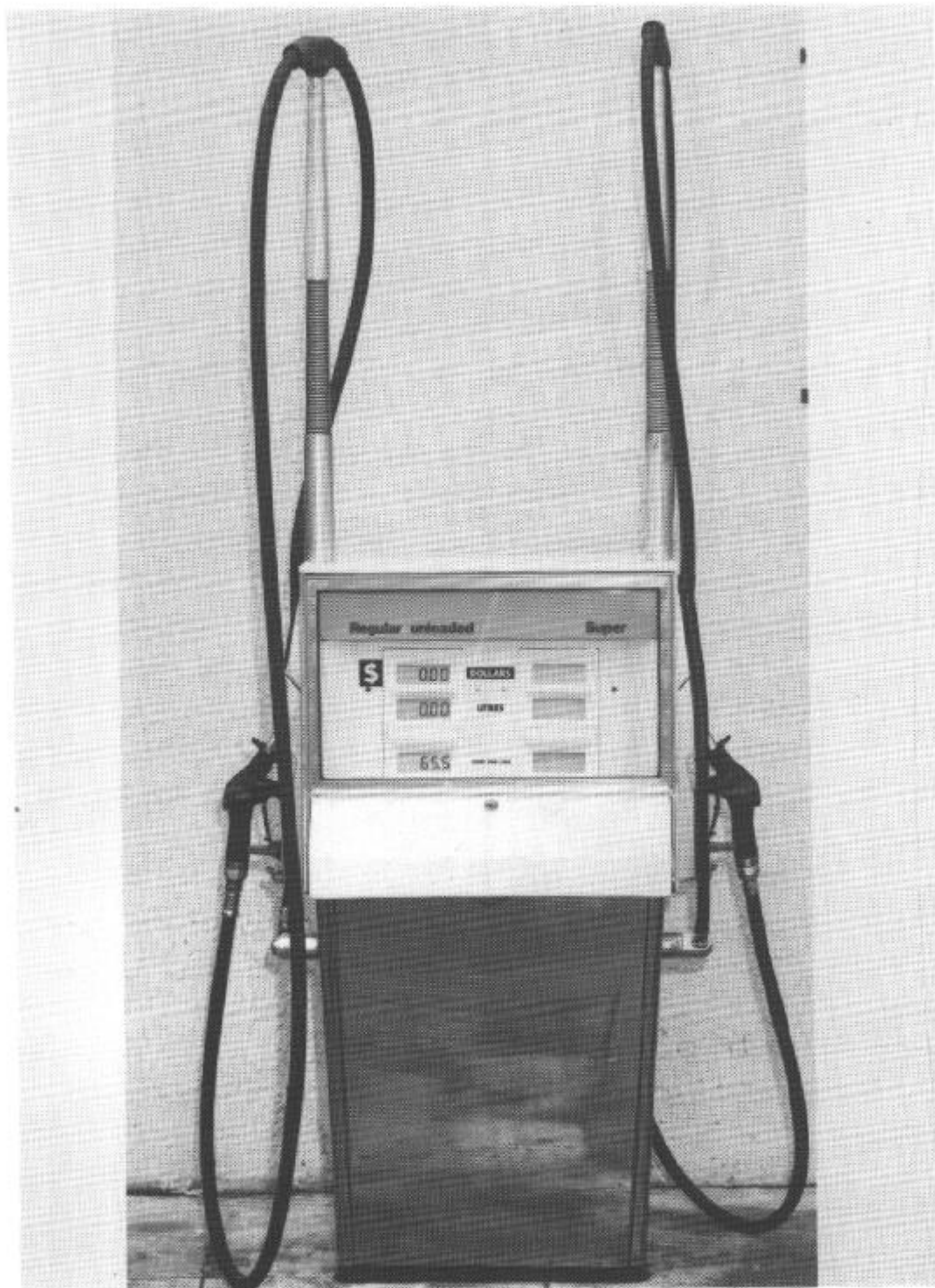
TEST PROCEDURE

Instruments should be tested in accordance with any tests included in the approval documentation for the control console (where used), and in accordance with any relevant tests specified in the Inspector's Handbook.

Maximum Permissible Errors at Verification/Certification

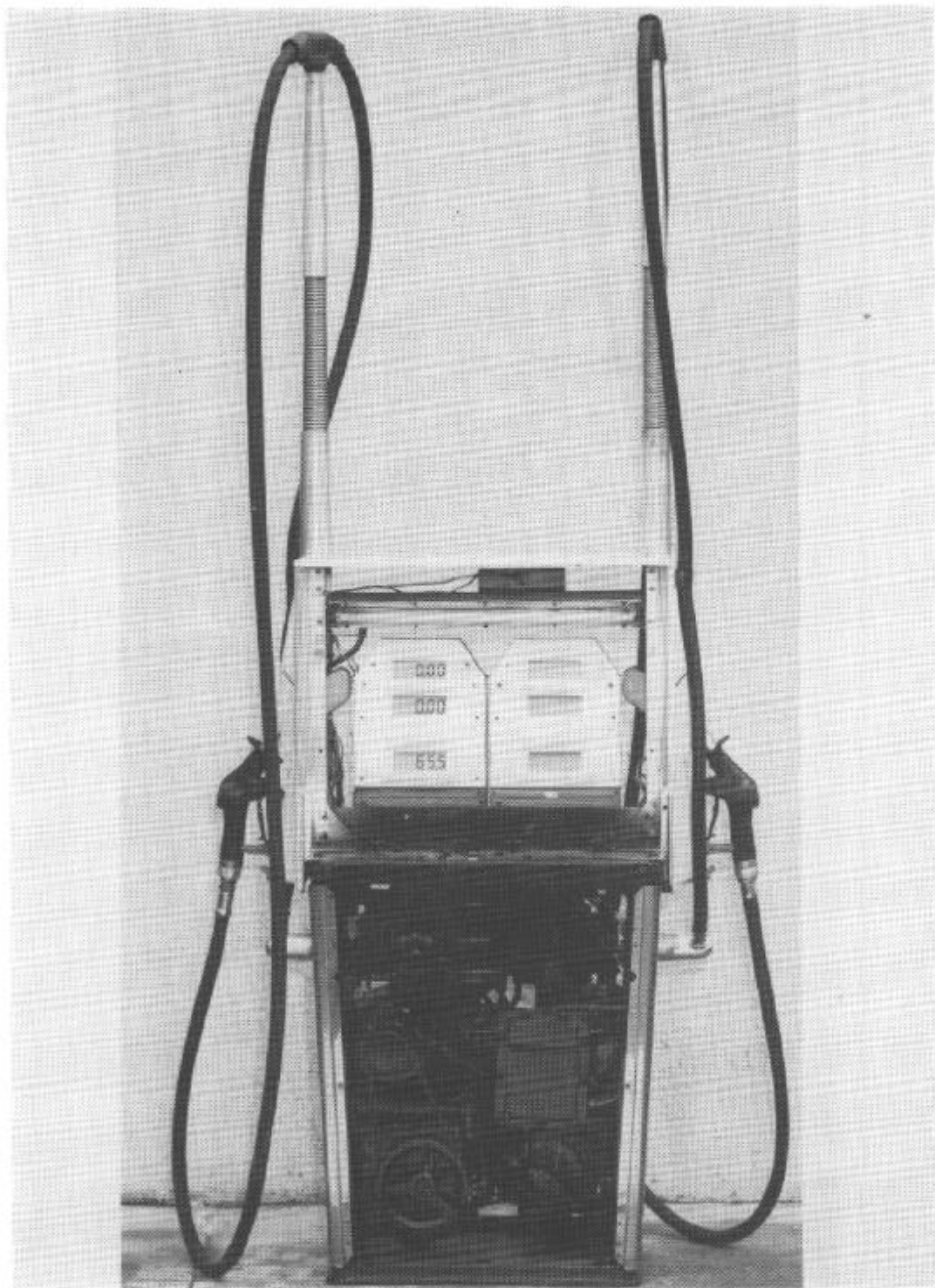
The maximum permissible error applied during a verification test from normal flow rate to the minimum flow rate specified in the Certificate of Approval or Technical Schedule is $\pm 0.3\%$.

FIGURE 5/6A/201 - 1



Pegrin Model ECC2 Driveway Flowmeter

FIGURE 5/6A/201 - 2



Model ECC2 Without Covers