6/4C/80A
21 March 2005

Australian Government

National Measurement Institute

12 Lyonpark Road, North Ryde NSW 2113

Cancellation

Certificate of

Approval No 6/4C/80A

Issued by the Chief Metrologist 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

NCR Model 7870-2000 Weighing Instrument

submitted by NCR Corporation
2651 Satellite Blvd
Duluth Georgia 30096
USA

has been cancelled in respect of new instruments as from 1 June 2005.

Signed by a person authorised by the Chief Metrologist to exercise his powers under Regulation 60 of the National Measurement Regulations 1999.

National Standards Commission

Certificate of Approval

No 6/4C/80A

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

NCR Model 7870-2000 Weighing Instrument

submitted by NCR Corporation
2651 Satellite Blvd
Duluth Georgia 30096
USA.

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.

This Certificate is issued upon completion of a review of NSC approval No 6/4C/80.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 April 2004, and then every 5 years thereafter.

..../2

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/80A 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.

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

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

DESCRIPTIVE ADVICE

Pattern: approved 11 March 1999

- An NCR model 7870-2000 self-indicating weighing instrument of 9.995 kg maximum capacity.

Variant: approved 11 March 1999

1. Of 13.995 kg maximum capacity.

Variant: approved 7 May 1999

2. Model 7870-4500.

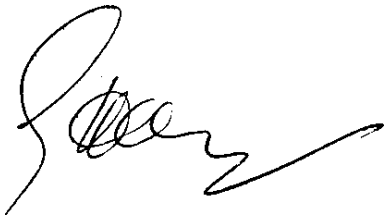
Technical Schedule No 6/4C/80A describes the pattern and variants 1 & 2.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4C/80A dated 7 June 1999
Technical Schedule No 6/4C/80A dated 7 June 1999 (incl. Test Procedure)
Figures 1 to 3 dated 7 June 1999

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.



TECHNICAL SCHEDULE No 6/4C/80A

Pattern: NCR Model 7870-2000 Weighing Instrument

Submittor: NCR Corporation
2651 Satellite Blvd
Duluth Georgia 30096
USA.

1. Description of Pattern

An NCR model 7870-2000 (*) self-indicating weighing instrument (Figure 1) of 9.995 kg maximum capacity with a verification scale interval of 0.005 kg.

Instruments may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

Instruments are fitted with one or two model 7825 displays mounted on a column (Figure 2) whether or not an integral display is also fitted. Instruments are marked 'NOT FOR TRADING DIRECT WITH THE PUBLIC' (or similar wording) unless two displays are present or unless the single display is located such that all primary indications are clearly and simultaneously displayed to both the vendor and the customer.

Instruments are approved for use over a temperature range of +10°C to +40°C.

Instruments are provided with an integral laser scanner for reading bar codes.

NOTE: (*) - The last three digits of the model number (7870-2***) may be numerals other than '0', but these represent features which are not metrologically significant.

1.1 Zero

Zero is automatically corrected to within ±0.25 e whenever power is applied and whenever the instrument comes to rest within 0.5e of zero. If the instrument comes to rest outside that range but within the zero setting range, zero may be set by pressing the zero button.

The initial zero-setting device has a nominal range of not more than 20% of the maximum capacity of the instrument.

1.2 Display Check

A display check is initiated whenever power is applied.

1.3 Scanner

Instruments are provided with an integral laser scanner for reading bar codes.

1.4 Verification/Certification Provision

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

1.5 Sealing Provision

Provision is made for the calibration adjustments to be sealed by means of a cover over the calibration adjustment switch located under the load receptor.

1.6 Markings

Instruments have the following markings, in the form shown at right:

Manufacturer's mark, or name written in full	NCR Corporation
Indication of accuracy class	(III)
Maximum capacity	*Max* ..... kg *
Minimum capacity	*Min* ..... kg *
Verification scale interval	*e =* ..... kg *
Serial number of the instrument	.....
Pattern approval mark for the instrument	NSC No 6/4C/80A
Special temperature limits	+10°C to +40°C

* These markings shall also be shown near each reading face if they are not already located there.

2. Description of Variants

2.1 Variant 1

A model 7870-2000 weighing instrument of 13.995 kg maximum capacity with a verification scale interval of 0.005 kg.

2.2 Variant 2

A model 7870-4500 weighing instrument (Figure 3) of either 9.995 kg maximum capacity or 13.995 kg maximum capacity with a verification scale interval of 0.005 kg.

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.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors for increasing and decreasing loads on initial verification/certification for loads, *m*, expressed in verification scale intervals, e, are:

$\pm 0.5\ e$ for loads $0 \leq m \leq 500$;
$\pm 1.0\ e$ for loads $500 < m \leq 2\ 000$; and
$\pm 1.5\ e$ for loads $2\ 000 < m \leq 10\ 000$.

Special Temperature Limits

Ensure that instruments are only being used within the special temperature limits stated in the Technical Schedule.

FIGURE 6/4C/80A - 1

NCR Model 7870-2000

FIGURE 6/4C/80A - 2

Showing Single and Dual Model 7825 Displays

FIGURE 6/4C/80A - 3

Model 7870-4500