

SCHEDULE 1 **E+W+S**

Regulation 9

ACCURACY CLASSIFICATION OF NON-AUTOMATIC WEIGHING MACHINES

PART I **E+W+S**

GENERAL

1. Non-automatic weighing machines are divided into four classes of accuracy according to specifications set out in Parts II to V of this Schedule. The division depends on their characteristics as well as the provisions relating to maximum capacity, the lower limit of the minimum load, the number of scale intervals and the scale interval itself.

Commencement Information

I1 Sch. 1 para. 1 in force at 2.5.2000, see **reg. 1(1)**

2. Where self and semi-self indicating machines are provided with an indicating device on which the last figure is clearly differentiated from the other figures, the classification of the machines into accuracy classes, their number of scale intervals and their minimum load shall be determined by reference to the verification scale interval.

Commencement Information

I2 Sch. 1 para. 2 in force at 2.5.2000, see **reg. 1(1)**

3. In each weighing mode of a machine each of the tare, weight indicating and printing devices operable in that mode has an associated verification scale interval. In a different weighing mode the same devices may have different verification scale intervals. When testing a machine it is therefore necessary to determine the verification scale interval for each device in each of the weighing modes in which it is operable.

Commencement Information

I3 Sch. 1 para. 3 in force at 2.5.2000, see **reg. 1(1)**

4. A weight indicating or printing device which, in any single weighing mode, has its weighing range divided into parts, each part having a different scale interval, will also have a different verification scale interval for each part. When testing in a particular weighing mode the relevant verification scale intervals are those associated with those devices in that mode.

Commencement Information

I4 Sch. 1 para. 4 in force at 2.5.2000, see **reg. 1(1)**

5. Each verification scale interval is—
- (a) marked on the machine in accordance with the published particulars of the approved pattern or, if there are no such markings,
 - (b) specified in the relevant Table in Parts II to V.

Changes to legislation: There are currently no known outstanding effects for the The Weighing Equipment (Non-automatic Weighing Machines) Regulations 2000. (See end of Document for details)

Commencement Information

I5 Sch. 1 para. 5 in force at 2.5.2000, see **reg. 1(1)**

6. The presence of a tare device or of a verification device on the machine does not affect the classification of the machine, which depends on its own characteristics. These devices are considered as belonging to the class of accuracy of the machine to which they are attached irrespective of their own characteristics.

Commencement Information

I6 Sch. 1 para. 6 in force at 2.5.2000, see **reg. 1(1)**

7. For machines provided with several weight indicating or printing devices, each of the devices—

- (a) has its own minimum load, the value of which is determined from the appropriate Table in Parts II, III, IV or V, depending on its metrological characteristics; and
- (b) has the same digital scale interval, which must be at most equal to the smallest of any analogue scale interval.

Commencement Information

I7 Sch. 1 para. 7 in force at 2.5.2000, see **reg. 1(1)**

8. For machines provided with graduated tare devices the smallest scale interval of the devices must be equal to the smallest scale interval of the machine to which it is fitted.

The verification scale interval of these devices shall be equal to the smallest verification scale interval of the machine.

Commencement Information

I8 Sch. 1 para. 8 in force at 2.5.2000, see **reg. 1(1)**


9. For machines fitted with a graduated verification device the scale interval of such an incorporated device must be at most equal to one-fifth of the scale interval of the machine.

Commencement Information

I9 Sch. 1 para. 9 in force at 2.5.2000, see **reg. 1(1)**

PART II E+W+S

MACHINES DESIGNATED CLASS I

10. A machine made in accordance with an approved pattern and which is or could be marked  is a Class I machine.

Commencement Information

I10 Sch. 1 para. 10 in force at 2.5.2000, see **reg. 1(1)**

11. The specifications for non-graduated and graduated Class I machines are given in Table 1.

Table 1

<i>Maximum capacity "Max"</i>	<i>Lower limit of the minimum load "Min"</i>	<i>Scale interval "d"</i>	<i>Number of scale intervals "n"</i>	<i>Verification scale interval "e"</i>
Non-graduated machines				
100 mg ≤ Max ≤ 1 g	10 e			0.1 mg
1 g < Max < 10 g	50 e			Max/10000
10 g ≤ Max < 100 g	50 e			1 mg
100 g ≤ Max	50 e			Max/100000
Graduated machines				
0.5 mg ≤ Max	d	d ≤ 0.005 mg	10 ≤ n	d
1 mg ≤ Max	10 d	0.01 mg ≤ d ≤ 0.05 mg	100 ≤ n	d
10 mg ≤ Max	50 d	0.1 mg ≤ d ≤ 0.5 mg	100 ≤ n	d
100 g ≤ Max	50 d	1 mg ≤ d	100 000 ≤ n	d

Notes

- When a machine is provided with a rider its verification scale interval shall be the smaller of the following—
 - the verification scale interval of the machine not taking into account the rider, or
 - the scale interval of the rider device.
- When graduated machines of the self and semi-self indicating type are provided with a device for interpolation of reading, this shall not be taken into account when determining the verification scale interval of the machine.
- When graduated machines of the self or semi-self indicating type are provided with an indicating device on which the last figure is clearly differentiated from the other figures, the verification scale interval shall correspond to the last but one figure of the indication.
- In the case of machines where the weight indicating or printing is in carat (metric) units or ounces troy the relevant capacity and verification scale interval shall be the amounts in carat (metric) or ounces troy respectively which are equivalent to those specified in the Table in terms of mg, g and kg.
- Where the equivalent metric value for an ounce troy scale interval falls between ranges then the value shall be considered as belonging to the lower range.

Commencement Information

I11 Sch. 1 para. 11 in force at 2.5.2000, see **reg. 1(1)**

PART III **E+W+S**

MACHINES DESIGNATED CLASS II

12. A machine which is:

- (a) made in accordance with an approved pattern and which is or could be marked



, or

- (b) first stamped before 1st November 1988 and marked “Class B” in accordance with the provisions for beam scales in the Weights and Measures Regulations 1963,

is a Class II machine.

Commencement Information

I12 Sch. 1 para. 12 in force at 2.5.2000, see **reg. 1(1)**

13. The specifications for non-graduated and graduated Class II machines are given in Table 2.

Table 2

<i>Maximum capacity “Max”</i>	<i>Lower limit of the minimum load “Min”</i>	<i>Scale interval “d”</i>	<i>Number of scale intervals “n”</i>	<i>Verification scale interval “e”</i>
Non-graduated machines				
1 g ≤ Max < 5 g	10 e			Max1000
5 g ≤ Max < 100 g	10 e			5 mg
100 g ≤ Max < 200 g	10 e			Max20000
200 g ≤ Max	50 e			Max20000
Graduated machines				
<i>Non-self indicating machines</i>				
1 g ≤ Max < 50 g	10 d	1 mg ≤ d ≤ 5 mg	200 ≤ n < 50 000	d
10 g ≤ Max < 50 g	50 d	10 mg ≤ d ≤ 50 mg	1 000 ≤ n < 5 000	5 mg
50 g ≤ Max ≤ 500 g	10 d	1 mg ≤ d ≤ 5 mg	10 000 ≤ n ≤ 100 000	d
50 g ≤ Max < 5 kg	50 d	10 mg ≤ d ≤ 500 mg	1 000 ≤ n < 10 000	Max10000
100 g ≤ Max ≤ 50 kg	50 d	10 mg ≤ d ≤ 500 mg	10 000 ≤ n ≤ 100 000	d

Maximum capacity "Max"	Lower limit of the minimum load "Min"	Scale interval "d"	Number of scale intervals "n"	Verification scale interval "e"
5 kg ≤ Max	50 d	1 g ≤ d	5 000 ≤ n < 10 000	Max10000
10 kg ≤ Max	50 d	1 g ≤ d	10 000 ≤ n ≤ 100 000	d
<i>Self and semi-self indicating machines</i>				
1 g ≤ Max ≤ 500 g	10 d	1 mg ≤ d ≤ 5 mg	200 ≤ n ≤ 100 000	d
10 g ≤ Max ≤ 50 kg	50 d	10 mg ≤ d ≤ 500 mg	1 000 ≤ n ≤ 100 000	d
5 kg ≤ Max	50 d	1 g ≤ d	5 000 ≤ n ≤ 100 000	d

Notes

- When a machine is provided with a rider its verification scale interval shall be the smaller of the following—
 - the verification scale interval of the machine not taking into account the rider, or
 - the scale interval of the rider device.
- When graduated self or semi-self indicating machines are provided with a device for interpolation of reading, this shall not be taken into account when determining the verification scale interval of the machine.
- When graduated self or semi-self indicating machines are provided with an indicating device on which the last figure is clearly differentiated from the other figures, the verification scale interval shall correspond to the last but one figure of the indication.
- Machines of a maximum capacity equal to or greater than 1 kg of an actual scale interval of 100 mg and of a verification scale interval of 1 g may belong to this class of machine, provided that the last figure is clearly differentiated from the other figures.
- In the case of machines where the weight indicating or printing is in carat (metric) units or ounces troy the relevant capacity and verification scale interval shall be the amounts in carat (metric) or ounces troy respectively which are equivalent to those specified in the Table in terms of mg, g and kg.
- Where the equivalent metric value for an ounce troy scale interval falls between ranges then the value shall be considered as belonging to the lower range.

Commencement Information

I13 Sch. 1 para. 13 in force at 2.5.2000, see [reg. 1\(1\)](#)

PART IV E+W+S

MACHINES DESIGNATED CLASS III

14. A machine which is—

- (a) made in accordance with an approved pattern and which is or could be marked

(III)

, or

- (b) first stamped before 1st November 1988 and marked "Class C" in accordance with the provisions for beam scales in the Weights and Measures Regulations 1963, or

(c) of a type referred to as “common form” and which was first stamped before 4th April 1989 is a Class III machine.

Commencement Information

I14 Sch. 1 para. 14 in force at 2.5.2000, see reg. 1(1)

15. The specifications for non-graduated and graduated Class III machines are given in Table 3.

Table 3

<i>Maximum capacity “Max”</i>	<i>Lower limit of the minimum load “Min”</i>	<i>Scale interval “d”</i>	<i>Number of scale intervals “n”</i>	<i>Verification scale interval “e”</i>
Non-graduated machines				
20 g ≤ Max < 100 g	20 e			0.1 g
100 g ≤ Max < 1 kg	20 e			Max1000
1 kg ≤ Max < 2 kg	20 e			1 g
2 kg ≤ Max	20 e			Max2000
Graduated machines <i>Non-self indicating machines</i>				
20 g ≤ Max < 100 g	10 d	0.1 g ≤ d ≤ 0.2 g	200 ≤ n < 1 000	0.1 g
100 g ≤ Max < 1 kg	20 d	0.2 g ≤ d ≤ 1 g	200 ≤ n < 1 000	Max1000
100 g ≤ Max ≤ 10 kg	20 d	0.1 g ≤ d ≤ 1 g	1 000 ≤ n ≤ 10 000	d
400 g ≤ Max < 5 kg	20 d	2 g ≤ d ≤ 5 g	200 ≤ n < 1 000	Max1000
2 kg ≤ Max ≤ 50 kg	20 d	2 g ≤ d ≤ 5 g	1 000 ≤ n ≤ 10 000	d
5 kg ≤ Max < 10 t	20 d	10 g ≤ d ≤ 10 kg	500 ≤ n < 1 000	Max1000
10 kg ≤ Max ≤ 100 t	20 d	10 g ≤ d ≤ 10 kg	1 000 ≤ n ≤ 10 000	d
15 t ≤ Max < 100 t	20 d	20 kg ≤ d ≤ 50 kg	750 ≤ n < 1 000	Max1000
15 t ≤ Max < 100 t	10 d	100 kg	750 ≤ n < 1 000	Max1000

Changes to legislation: There are currently no known outstanding effects for the The Weighing Equipment (Non-automatic Weighing Machines) Regulations 2000. (See end of Document for details)

<i>Maximum capacity "Max"</i>	<i>Lower limit of the minimum load "Min"</i>	<i>Scale interval "d"</i>	<i>Number of scale intervals "n"</i>	<i>Verification scale interval "e"</i>
20 t ≤ Max ≤ 1 000 t	20 d	20 kg ≤ d ≤ 50 kg	1 000 ≤ n ≤ 10 000	d
20 t ≤ Max ≤ 1 000 t	10 d	100 kg	1 000 ≤ n ≤ 10 000	d
150 t ≤ Max	10 d	200 kg ≤ d	750 ≤ n < 1 000	Max1000
200 t ≤ Max	10 d	200 kg ≤ d	1 000 ≤ n ≤ 10 000	d
<i>Self and semi-self indicating machines</i>				
20 g ≤ Max ≤ 10 kg	10 d	0.1 g ≤ d ≤ 1 g	50 ≤ n ≤ 10 000	d
400 g ≤ Max ≤ 50 kg	20 d	2 g ≤ d ≤ 5 g	200 ≤ n ≤ 10 000	d
5 kg ≤ Max ≤ 200 kg	20 d	10 g ≤ d ≤ 20 g	500 ≤ n ≤ 10 000	d
25 kg ≤ Max ≤ 100 t	20 d	50 g ≤ d ≤ 10 kg	500 ≤ n ≤ 10 000	d
15 t ≤ Max ≤ 1 000 t	20 d	20 kg ≤ d ≤ 50 kg	750 ≤ n ≤ 10 000	d
15 t ≤ Max ≤ 1 000 t	10 d	100 kg	750 ≤ n ≤ 10 000	d
150 t < Max	10 d	200 kg ≤ d	750 ≤ n ≤ 10 000	d

Commencement Information

I15 Sch. 1 para. 15 in force at 2.5.2000, see [reg. 1\(1\)](#)

PART V E+W+S

MACHINES DESIGNATED CLASS III

16. A machine which is—

- (a) made in accordance with an approved pattern and which is or could be marked



, or

- (b) first stamped before 1st November 1988 in accordance with the provisions for crane weighing machines constructed upon the hydraulic principle in the Weights and Measures Regulations 1963, or
- (c) of the type referred to as “approximate weighers” and first stamped before 1st November 1988, or

Changes to legislation: There are currently no known outstanding effects for the The Weighing Equipment (Non-automatic Weighing Machines) Regulations 2000. (See end of Document for details)

(d) of a type referred to as “common form” and which was first stamped before 1st November 1988,
is a Class III machine.

Commencement Information
I16 Sch. 1 para. 16 in force at 2.5.2000, see **reg. 1(1)**

17. The specifications for non-graduated and graduated Class III machines are given in Table 4.

Table 4

<i>Maximum capacity “Max”</i>	<i>Lower limit of the minimum load “Min”</i>	<i>Scale interval “d”</i>	<i>Number of scale intervals “n”</i>	<i>Verification scale interval, “e”</i>
<i>Non-graduated machines</i>				
400 g ≤ Max < 2 kg	10 e			5 g
2 kg ≤ Max	10 e			Max400
<i>Graduated machines</i>				
<i>Non-self indicating machines</i>				
400 g ≤ Max < 2 kg	10 d	5 g ≤ d ≤ 10 g	80 ≤ n < 400	5 g
2 kg ≤ Max < 4 t	10 d	10 g ≤ d ≤ 10 kg	100 ≤ n < 400	Max400
2 kg ≤ Max ≤ 10 t	10 d	5 g ≤ d ≤ 10 kg	400 ≤ n ≤ 1 000	d
4 t ≤ Max	10 d	20 kg ≤ d	200 ≤ n < 400	Max400
8 t ≤ Max	10 d	20 kg ≤ d	400 ≤ n ≤ 1 000	d
<i>Self and semi-self indicating machines</i>				
400 g ≤ Max ≤ 10 t	10 d	2 g ≤ d ≤ 10 kg	60 ≤ n ≤ 1 000	d
4 t ≤ Max	10 d	20 kg ≤ d	200 ≤ n ≤ 1 000	d

Commencement Information
I17 Sch. 1 para. 17 in force at 2.5.2000, see **reg. 1(1)**

SCHEDULE 2 **E+W+S**

Regulation 37

TESTING

PART I **E+W+S**

GENERAL

1. Subject to the provisions of paragraph 17 of this Schedule on eccentric load testing and any special arrangements required to comply with regulation 7, test loads shall be distributed over the central areas of load and weight receptors.

Commencement Information

I18 Sch. 2 para. 1 in force at 2.5.2000, see **reg. 1(1)**

2.—(1) Subject to the provisions of paragraph 16 of this Schedule on tilt testing, machines fitted with level indicating devices shall only be tested when the devices indicate that the machines have been set to their reference positions.

(2) Movable machines or machines having movable load or weight receptors—

- (a) shall, if freestanding, subject to subparagraph (1) above and the provisions of paragraph 16(d) and (e) of this Schedule on tilt testing, be supported during testing on a level plane and, if practicable, have their load and/or weight bearing surfaces set level; and
- (b) shall, if designed to be suspended in use, be suspended during testing.

Commencement Information

I19 Sch. 2 para. 2 in force at 2.5.2000, see **reg. 1(1)**

3. When taking test readings from digital weight indicators or printers, other than the readings required for comparison testing by paragraph 10 and the readings required for discrimination testing by paragraph 14 of this Schedule, the inspector shall eliminate any rounding error either by using the change points between consecutive indicated or printed digits or by using test facilities on the device under test which increase the resolution of the weight indication or printout.

Commencement Information

I20 Sch. 2 para. 3 in force at 2.5.2000, see **reg. 1(1)**

4. In the case of a machine having an automatic zero tracking device or devices, these devices shall be effectively disabled during testing, by adopting a non-zero indication or printout as zero-for-the purposes of testing, so that the test results are not materially affected by the action of any of the automatic zero tracking devices.

Commencement Information

I21 Sch. 2 para. 4 in force at 2.5.2000, see **reg. 1(1)**

Changes to legislation: There are currently no known outstanding effects for the The Weighing Equipment (Non-automatic Weighing Machines) Regulations 2000. (See end of Document for details)

5. In the case of a machine of an approved pattern which, in the published particulars thereof, is described as having a weighing mode in which, with the load receptor empty—

- (a) the machine cannot be balanced, or
- (b) an indicating, printing or tare device cannot be set to zero,

then nothing in the provisions of Parts II and III of this Schedule shall require such balancing or setting, or prevent the machine from being fully tested.

Commencement Information

I22 Sch. 2 para. 5 in force at 2.5.2000, see **reg. 1(1)**

6. When testing any machine, the inspector shall first ascertain:—

- (a) its accuracy classification, the verification scale intervals and weighing ranges of all the indicating, printing and tare devices, in accordance with the provisions of Schedule 1 to these Regulations;
- (b) the number of its weighing modes;
- (c) for each of the indicating, printing and tare devices, the value of test load at which the prescribed limits of error change in value, in accordance with the provisions of Schedule 3 to these Regulations; and
- (d) the maximum loads of all the weight and load receptors and combinations of load receptors.

Commencement Information

I23 Sch. 2 para. 6 in force at 2.5.2000, see **reg. 1(1)**

7. Where feasible, the inspector may combine tests or carry out several tests concurrently.

Commencement Information

I24 Sch. 2 para. 7 in force at 2.5.2000, see **reg. 1(1)**

PART II **E+W+S**

ACCURACY TESTING

8. Weight indicating and weight printing devices

- (a) Subject to paragraph 5 of this Schedule, the inspector shall first balance the machine with the load and weight receptors empty and all the tare, weight indicating and printing devices set to zero.
- (b) For each weighing mode of the machine, each of the weight indicating and printing devices which are operable in that mode shall be tested for accuracy unless, in the inspector's opinion, a lesser number of tests on any device is sufficient to establish or re-establish its fitness for use. During accuracy testing each device shall be tested at least once with increasing and decreasing loads unless it is described in the published particulars of the approved pattern as not to be so tested.
- (c) For each weight reading the error must not exceed the appropriate prescribed limit of error.

Commencement Information

I25 Sch. 2 para. 8 in force at 2.5.2000, see **reg. 1(1)**

PART III **E+W+S**

OTHER TESTING

Interpretation **E+W+S**

9. In this Part of this Schedule, “absolute value” means the range of the limit of error from the maximum plus to the maximum minus allowed.

Commencement Information

I26 Sch. 2 para. 9 in force at 2.5.2000, see **reg. 1(1)**

10. Comparison testing

- (a) Machines having a weighing mode in which it is possible to obtain more than one determination of any test load by means of more than one tare, weight indicating or printing devices shall, for each such weighing mode, be tested as described in subparagraphs (b) and (c) below.
- (b) Testing shall be carried out for at least three different values of test load.
- (c) The inspector shall compare each reading with all the other readings of the same test load, the other readings being obtained from different weight indicating, printing and tare devices. The difference between any two of these readings must not exceed—
 - (i) zero, where the two readings are obtained from two digital devices having the same scale interval;
 - (ii) the larger of the scale intervals, where the two readings are obtained from digital devices having different scale intervals;
 - (iii) the smaller of the absolute values of the appropriate prescribed limits of error where the two readings are obtained from two analogue devices; or
 - (iv) either the absolute value of the appropriate prescribed limits of error of the analogue device or the scale interval of the digital device whichever is the greater, where one of the two readings is obtained from an analogue device and the other is obtained from a digital device.

Commencement Information

I27 Sch. 2 para. 10 in force at 2.5.2000, see **reg. 1(1)**

11. Alternative load balancing arrangement testing

- (a) Machines having a weighing mode in which it is possible to obtain more than one determination of a single load by means of alternative load balancing arrangements shall, for each such weighing mode, be tested as described in subparagraphs (b) and (c) below.
- (b) If feasible, testing of each alternative load balancing arrangement shall be carried out for at least three different values of test load.

- (c) For each test load the inspector shall compare the two readings obtained from the alternative load balancing arrangements. The difference between these readings must not exceed the absolute value (or the smaller of the absolute values) of the appropriate prescribed limits of error for the load applied.

Commencement Information

I28 Sch. 2 para. 11 in force at 2.5.2000, see **reg. 1(1)**

12. Repeatability testing

- (a) Repeatability testing shall be carried out as appropriate to the machine under test, with the test load being removed and then re-deposited as nearly as practicable in the same position.
- (b) The readings for each test load shall be compared. The difference between the highest and the lowest of them must not exceed half the absolute value of the appropriate prescribed limits of error for the load applied. All readings must also fall within the prescribed limits of error.
- (c) Additional repeatability testing may be carried out on machines having other weight indicating or printing devices associated with the load receptor under test.

Commencement Information

I29 Sch. 2 para. 12 in force at 2.5.2000, see **reg. 1(1)**

13. Price-to-pay testing

- (a) By checking with several different weights and unit prices, the inspector shall satisfy himself that the machine computes the price-to-pay correctly.
- (b) In the case of a machine with digital indication or printing of price-to-pay, the price computation shall be deemed to be correct if the difference between any indicated or printed price-to-pay and the product of its associated unit price and indicated or printed weight is not greater than half the value of the smallest monetary unit.

Commencement Information

I30 Sch. 2 para. 13 in force at 2.5.2000, see **reg. 1(1)**

14. Discrimination testing

- (a) Discrimination testing shall not be carried out on accelerating machines.
- (b) Subject to (a) above, discrimination testing shall be carried out with the machine loaded to the approved minimum load and maximum capacity, or as near as practicable thereto, using each load and weight receptor, or combination of receptors, separately with the associated indicating or printing device which has the smallest prescribed limit of error for the value of load used in the testing.
- (c) For non-self indicating machines, while balanced to give an indication of the load as at (b) above, an additional load equal to 0.4 times the absolute value of the prescribed limit of error added gently to the loaded receptor shall always produce:—
- (i) an appreciable movement of the beam, in the case of a simple equal-arm beam;
 - (ii) a rise or fall to the limits of the range of movement of the beam or indicating element, in the case of a machine which is not a simple equal-arm beam.

- (d) For self or semi-self indicating machines, while loaded as at (b) above, the additional load placed gently on the loaded receptor shall:—
- (i) in the case of analogue indication or printing be equivalent to the absolute value of the prescribed limit of error for the load on the receptor and shall always cause a permanent displacement of the indicating element corresponding to at least 0.7 times its value;
 - (ii) in the case of a digital indication or printing, be equivalent to 1.4 times the digital scale interval and shall always cause an increase in the reading of the initial indication.

Commencement Information

I31 Sch. 2 para. 14 in force at 2.5.2000, see **reg. 1(1)**

15. Level indicator testing

- (a) The sensitivity of the level indicating devices shall be such that, in the case of Class I and Class II machines, for a longitudinal or transverse tilt not exceeding 2 parts in 1000, the moving part of the indicator is displaced by at least 2 mm.
- (b) In the case of Class III and Class IIII machines, when a machine is tilted longitudinally or transversely until the moving part of the indicator shows a displacement of at least 2 mm, the zero load reading of the associated indicating or printing device does not change by more than two verification scale intervals.
- (c) In the case of Class II, Class III and Class IIII machines additionally, for all loads, the variation between the indicated or printed results obtained in the reference position and the tilted position shall not exceed the value of the prescribed limit of error for the test load, the machine having been adjusted to zero or balanced in the no-load condition for both the reference and tilted positions.

Commencement Information

I32 Sch. 2 para. 15 in force at 2.5.2000, see **reg. 1(1)**

16. Tilt testing

- (a) Tilt testing shall not be carried out on any machines which are permanently installed, freely suspended or Class I machines provided with adjustable levelling devices and one or more level indicating devices.
- (b) Machines subject to tilt testing which are submitted with a view to being passed for the first time as fit for use for trade shall be tested as described in subparagraphs (c) to (e) below. An inspector may, at his discretion, carry out tilt testing at other times on machines which are subject to such testing.
- (c) The machines shall be tested using each load and weight receptor, where feasible, in association with the indicating or printing device which has the smallest verification scale interval of these devices capable of registering the maximum capacity.
- (d) Subject to paragraph 5 of this Schedule, for a Class III or Class IIII machine, having first been adjusted to zero or balanced at no-load in its untilted reference position with all the tare, weight indicating and printing devices set to zero, the indication shall not vary by more than two verification scale intervals when tilted longitudinally and transversely to—
 - (i) 2 parts in 1000; or

Changes to legislation: There are currently no known outstanding effects for the The Weighing Equipment (Non-automatic Weighing Machines) Regulations 2000. (See end of Document for details)

- (ii) 50 parts in 1000, for a machine without any level indicating devices.
- (e) Subject to paragraph 5 of this Schedule, for a Class II, Class III or Class IIII machine, having first been adjusted to zero or balanced at no-load with all the tare, weight indicating and printing devices set to zero when tilted longitudinally or transversely to—
 - (i) 1 part in 1000 for a Class II machine;
 - (ii) 2 parts in 1000 for a Class III or Class IIII machine;
 - (iii) 50 parts in 1000 for a machine without any level indicating devices,
 the indication shall not vary by more than one verification scale interval when the maximum load is applied.

Commencement Information

I33 Sch. 2 para. 16 in force at 2.5.2000, see **reg. 1(1)**

17. Eccentric load testing

- (a) Machines shall be subjected to eccentric load testing using each load and weight receptor, or combination of receptors, separately in association with the indicating or printing device which has the smallest prescribed limits of error for the value of load used in the testing.
- (b) Subject to paragraph 5 of this Schedule, the inspector shall first balance the machine with the load and weight receptors empty and all the tare, weight indicating and printing devices set to zero.
- (c) The receptor shall then be loaded as specified in paragraph 18 below. The weight reading shall be noted for each specified position of the test load. For each weight reading the error must not exceed the appropriate prescribed limit of error.

Commencement Information

I34 Sch. 2 para. 17 in force at 2.5.2000, see **reg. 1(1)**

- (a) (a) Subject to sub-paragraph (b) below—
 - (i) in the case of a load receptor having four or fewer supports, a test load equal to one-third of the maximum load shall be applied in turn to each of the four quarter segments of the load receptor, each quarter segment being as nearly as is practicable equal to one quarter in area of the receptor; or
 - (ii) in the case of a load receptor having more than four supports, a test load which is equal to the fraction $1/(n-1)$ of the maximum load shall be applied to each support over an area of $1/n$ of the surface area of the load receptor (where 'n' is the number of supports):

Provided that, if the load receptor has a pair of supports which are so close together that it is not practicable to proceed in this manner, a test load which is equal to $2/(n-1)$ of the maximum load (where 'n' is the number of supports) shall be applied to twice that area equally spaced about the axis connecting the pair of supports; or
 - (iii) in the case of a machine which falls within head (i) or (ii) above but which has a load receptor in the form of a tank or hopper where the off-centre loading is minimal, a test load which is equal to one-tenth of the maximum load shall be applied to each point of support of the load receptor.

- (b) In the case of a machine used for weighing vehicles of any description, a test load which is as nearly as practicable equal to, but in the event does not exceed, four-fifths of the maximum load shall also be applied at both ends and in the middle of the load receptor in all directions of movement of the vehicle on the load receptor.

Commencement Information

I35 Sch. 2 para. 18 in force at 2.5.2000, see **reg. 1(1)**

Commencement Information

I26 Sch. 2 para. 9 in force at 2.5.2000, see **reg. 1(1)**

I27 Sch. 2 para. 10 in force at 2.5.2000, see **reg. 1(1)**

I28 Sch. 2 para. 11 in force at 2.5.2000, see **reg. 1(1)**

I29 Sch. 2 para. 12 in force at 2.5.2000, see **reg. 1(1)**

I30 Sch. 2 para. 13 in force at 2.5.2000, see **reg. 1(1)**

I31 Sch. 2 para. 14 in force at 2.5.2000, see **reg. 1(1)**

I32 Sch. 2 para. 15 in force at 2.5.2000, see **reg. 1(1)**

I33 Sch. 2 para. 16 in force at 2.5.2000, see **reg. 1(1)**

I34 Sch. 2 para. 17 in force at 2.5.2000, see **reg. 1(1)**

I35 Sch. 2 para. 18 in force at 2.5.2000, see **reg. 1(1)**

Locking or relieving gear testing **E+W+S**

19. Load and weight receptors which have associated locking or relieving devices shall, when supporting one-half of their maximum load, be eased into and out of lock or relief. This action must not cause the machine, in its unlocked or unrelieved position, to give any indication or printout which is in error by more than the appropriate prescribed limit of error.

Such devices must not be able to be placed in intermediate positions.

Commencement Information

I36 Sch. 2 para. 19 in force at 2.5.2000, see **reg. 1(1)**

Backbalance testing **E+W+S**

- (a) (a) Backbalance testing shall be carried out only on accelerating machines.
- (b) In backbalance testing the maximum load shall first be placed on the load receptor and the machine balanced so that the beam or indicating element only just maintains its horizontal position on its stop or carrier. The beam or indicating element shall then be moved to its position of greatest displacement from the horizontal position, after which the load on the load receptor shall be reduced by the minimum amount which is required to restore the beam or indicating element to its horizontal position.
- (c) The minimum amount which is required to be removed from the load receptor must not exceed three times the verification scale interval of the machine.

Commencement Information

I37 Sch. 2 para. 20 in force at 2.5.2000, see **reg. 1(1)**

SCHEDULE 3 **E+W+S**

Regulations 37, 38

PRESCRIBED LIMITS OF ERROR

1. Subject to paragraphs 2 and 3 below, the prescribed limits of error expressed in terms of “e”, the relevant verification scale interval of the device under test, shall be those set out in the Table below.

Table

<i>Classification of Machine</i>	<i>Limits of Error in Excess or Deficiency upon passing as fit for use for trade</i>		<i>Number of verification scale intervals for loads—see Note below</i>
Column 1	Column 2	Column 3	Column 4
Class I			
(first part)	0.5 e	1 e	not more than 50 000 e
(second part)	1 e	2 e	more than 50 000 e and not more than 200 000 e
(third part)	1.5 e	3 e	more than 200 000 e
Class II			
(first part)	0.5 e	1 e	not more than 5 000 e
(second part)	1 e	2 e	more than 5 000 e and not more than 20 000 e
(third part)	1.5 e	3 e	more than 20 000 e
Class III			
(first part)	0.5 e	1 e	not more than 500 e
(second part)	1 e	2 e	more than 500 e and not more than 2 000 e
(third part)	1.5 e	3 e	more than 2 000 e
Class IIII			
(first part)	0.5 e	1 e	not more than 50 e
(second part)	1 e	2 e	more than 50 e and not more than 200 e
(third part)	1.5 e	3 e	more than 200 e

Note

When testing a weight indicating or printing device, in a weighing mode in which tare devices other than those within paragraph (b) of the definition of “tare device” in regulation 2 above are operable, the ranges listed in column 4 of the Table shall be increased by the corresponding tare value.

Commencement Information

I38 Sch. 3 para. 1 in force at 2.5.2000, see **reg. 1(1)**

2. An indicating or printing device which, in any single weighing mode, has more than one verification scale interval, each of which relates exclusively to a particular part of the weighing range, shall have, for each particular part, those error allowances which would apply if the complete weighing range had the verification scale interval which relates to that particular part.

Commencement Information

I39 Sch. 3 para. 2 in force at 2.5.2000, see **reg. 1(1)**

3. In the case where—

- (a) a machine has had its stamp obliterated under regulation 43(2) of these Regulations because of an alteration or adjustment involving only the replacement or addition of a dial, chart or pointer, and
- (b) the purpose of the alteration or adjustment was to modify an imperial machine to indicate weight in metric units, and
- (c) (i) within the period of fifteen days following the making of the alteration or adjustment the requirements of paragraph 4 below were complied with, or
(ii) the period for complying with those requirements has not yet expired,

the appropriate prescribed limits of error upon the first retesting of such a machine with a view to its being passed as fit for use for trade shall be those set out in the Table in paragraph 1 above as being applicable in relation to the obliteration of stamps.

Commencement Information

I40 Sch. 3 para. 3 in force at 2.5.2000, see **reg. 1(1)**

4. The requirements referred to in paragraph 3(c)(i) above are that the chief inspector of weights and measures for the area in which the machine will first be used for trade after it has been altered or adjusted, or if the address at which it will be so used is not known, for the area in which the alteration or adjustment is carried out, is furnished by the person carrying out the alteration or adjustment with the following particulars, namely—

- (a) his name and address;
- (b) particulars by which the machine may be identified;
- (c) the name and address of the person who will first use the machine for trade after its alteration or adjustment and the address at which it will be so used or, if those particulars are not known, an address at which the machine will be available for inspection;
- (d) confirmation that the modification consisted only of the replacement or addition of a chart, dial or pointer.

Commencement Information

I41 Sch. 3 para. 4 in force at 2.5.2000, see **reg. 1(1)**

Changes to legislation: There are currently no known outstanding effects for the The Weighing Equipment (Non-automatic Weighing Machines) Regulations 2000. (See end of Document for details)

SCHEDULE 4 **E+W+S**

Regulation 1(2)

REGULATIONS REVOKED

Commencement Information

I42 Sch. 4 in force at 2.5.2000, see **reg. 1(1)**

- The Weighing Equipment (Non-automatic Weighing Machines) Regulations 1988**(1)**
The Weighing Equipment (Non-automatic Weighing Machines) (Amendment) Regulations 1988**(2)**
The Weighing Equipment (Non-automatic Weighing Machines) (Amendment) Regulations 1991**(3)**
The Weighing Equipment (Non-automatic Weighing Machines) (Amendment) Regulations 1992**(4)**
The Non-automatic Weighing Machines and Non-automatic Weighing Instruments (Amendment) Regulations 1995**(5)**
In Parts I and III of the Schedule to the Weights and Measures (Metrication Amendments) Regulations 1994**(6)**, the amendments of the Weighing Equipment (Non-automatic Weighing Machines) Regulations 1988.

(1) S.I.1988/876.
(2) S.I. 1988/2120.
(3) S.I. 1991/2019.
(4) S.I. 1992/3037.
(5) S.I. 1995/428.
(6) S.I. 1994/1851.

Changes to legislation:

There are currently no known outstanding effects for the The Weighing Equipment (Non-automatic Weighing Machines) Regulations 2000.