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GUERNSEY STATUTORY INSTRUMENT
1991 No. 43

The Weights and Measures (Bailiwick Standard and Working
Standard Weights and Testing Equipment) Regulations, 1991

Made 16th December, 1991

Laid before the States ... 29th January, 1992

Coming into operation ... 17th December, 1991

THE STATES BOARD OF EMPLOYMENT, INDUSTRY AND COMMERCE, in exercise of the powers conferred by sections 2(4), 3(6) and 61(1) of the Weights and Measures (Guernsey and Alderney) Law, 1991(a) and in exercise of all other powers enabling it in that behalf, hereby makes the following Regulations -

1.(1) Working standard weights and egg grading machine test poises provided pursuant to section 3(1) of the Law shall not be used unless they have been tested within 15 months before use.

(2) Test weights provided pursuant to section 3(1) of the Law shall not be used unless they have been tested within 27 months before use.

(3) Where an inspector has reasonable cause to believe that any such weight or poise is not accurate within the prescribed limit of error (within the meaning of Regulation 6) he shall test it before use.

(4) Where a test reveals an error exceeding the prescribed limit of error the weight or poise shall not be

(a) Ordre en Conseil No. XVII of 1991.

further used until it has been so adjusted that any error is within that limit.

2. Working standard weights shall be tested against Bailiwick standard weights by the method of substitution.

3. Test weights and egg grading machine test poises shall be tested by either:

(a) the method of substitution, or

(b) the method of comparison against either:

(i) Bailiwick standard weights; or

(ii) working standard weights or test weights,

provided that, in each case, in the opinion of the inspector the necessary accuracy can be achieved.

4.(1) Testing equipment consisting of weighing equipment shall not be used unless it has been tested for repeatability and for discrimination threshold within 6 months before use and shall not be used for testing working standard weights, test weights or egg grading machine test poises unless it complies with the requirements of Regulation 5 below.

(2) Where an inspector has reasonable cause to believe that any testing equipment referred to in this Regulation is not accurate within the prescribed limit of error, he shall test it before use.

Testing Equipment

5. Testing equipment consisting of weighing equipment used for testing working standard weights, test weights and egg grading machine test poises shall comply with the following

requirements:

- (a) the discrimination threshold of the testing equipment used shall not exceed one-fifth of the amount specified in Tables 1 to 6 in Schedule 1 to these Regulations as the limit of error for the weight being tested, or, in the case of an egg grading machine test poise, 7 mg, and
- (b) the repeatability of the testing equipment shall be such that the 95 per cent confidence interval of a single reading does not exceed one-fifth of the amount specified in Tables 1 to 6 in Schedule 1 to these Regulations as the limit of error for the weight being tested, or, in the case of an egg grading machine test poise, 7 mg.

Prescribed limits of error

6.(1) The prescribed limits of error relating to Bailiwick standard and working standard weights and test weights shall be those set out in Tables 1 to 6 in Schedule 1 to these Regulations.

(2) The prescribed limit of error relating to egg grading machine test poises shall be 35 mg.

Period of validity of certificates of fitness of local standards

7. A certificate of fitness for a Bailiwick standard

weight shall be valid for a period of 5 years running from the date of issue of the certificate.

Interpretation

8.(1) In these Regulations -

"analogue" means capable of assigning any value or position within a continuous range;

"digital" means capable of assigning only certain discrete values or positions within a continuous range by a series of discontinuous steps;

"discrimination threshold" means, in the case of testing equipment with a digital indicator, the weight which produces a change of reading of one digit from one change point to the next change point, and in the case of testing equipment with an analogue indicator, the weight which produces a 1 millimetre apparent movement of the pointer;

"the Law" means the Weights and Measures (Guernsey and Alderney) Law, 1991;

"non-automatic weighing machine" means a machine which requires the intervention of an operator during the weighing process, especially to deposit loads on, or remove loads from, the part of the machine on which loads are placed for the purpose of their being weighed and to determine the result of the weighing process;

"repeatability" means the ability of weighing

equipment to indicate, under defined conditions of use, closely similar quantities on repeated weighings; and

"95 per cent. confidence interval" means the range of values within which the true value may be expected to lie with a 0.95 level of probability.

(2) The symbols for, and abbreviations of, units of weight used in these Regulations refer to the appropriate units set out in Schedule 2 to these regulations.

(3) The Interpretation (Guernsey) Law, 1948(b) applies to the interpretation of these Regulations as if they were an enactment.

Citation

10. These Regulations may be cited as the Weights and Measures (Bailiwick Standard and Working Standard Weights and Testing Equipment) Regulations, 1991.

Commencement

11. These Regulations shall come into operation on the 17th December, 1991.

Dated 16th December, 1991.



DAVID EVANS
President of the
States Board of Employment, Industry and Commerce

(b) Ordres en Conseil Vol. XIII, p. 355.

SCHEDULE 1

TABLE 1

IMPERIAL SYSTEM
Avoirdupois weights

Bailiwick or working standards of -	Limit of error in milligrams	
	Bailiwick standard	Working standard
56 lb	400	1250
28 lb	200	650
14 lb	100	320
7 lb	50	160
4 lb	30	90
2 lb	15	45
1 lb	7	20
8 oz	3	10
4 oz	2	6
2 oz	1	3
1 oz	0.8	2.5
½ oz	0.7	2
¼ oz	0.5	1.5
1/8 oz	0.5	1.5
1/16 oz	0.4	1.2
1/32 oz	0.3	1
50 lb	350	1100
20 lb	150	450
10 lb	70	220
5 lb	35	110

TABLE 2

Weights expressed as multiples or
fractions of 1/7000 lb

Bailiwick standard of -	Limit of error in milligrams
100	0.53
50	0.44
30	0.40
20	0.33
10	0.27
5	0.22
3	0.20
2	0.17
1	0.13
0.5	0.11
0.3	0.10
0.2	0.09
0.1	0.06
0.05	0.06
0.03	0.06
0.02	0.06
0.01	0.06

TABLE 3
Troy weights

Bailiwick standard of ounces troy -	Limit of error in milligrams
500	250
400	200
300	150
200	100
100	50
50	25
40	20
30	15
20	10
10	5
5	2.5
4	2.0
3	1.5
2	1.0
1	1.0
0.5	0.7
0.4	0.6
0.3	0.6
0.2	0.5
0.1	0.4
0.05	0.4
0.04	0.3
0.03	0.3
0.025	0.3
0.02	0.25
0.01	0.22
0.005	0.18
0.004	0.16
0.003	0.15
0.002	0.13
0.001	0.11

TABLE 4

METRIC SYSTEM
Metric weights other than carat (metric) weights

Bailiwick or working standards of -	Limit of error in milligrams	
	Bailiwick standard	Working standard
20 kg	300	1000
10 kg	150	500
5 kg	75	250
2 kg	30	100
1 kg	15	50
500 g	7.5	25
200 g	3.0	10
100 g	1.5	5
50 g	1.0	3
20 g	0.8	2.5
15 g	0.7	2.2
10 g	0.6	2.0
5 g	0.5	1.5
4 g	0.5	1.5
3 g	0.4	1.2
2 g	0.4	1.2
1 g	0.3	1.0
500 mg	0.25	0.8
400 mg	0.25	0.8
300 mg	0.25	0.8
200 mg	0.20	0.6
150 mg	0.20	0.6
100 mg	0.15	0.5
50 mg	0.12	0.4
20 mg	0.10	0.3
10 mg	0.08	0.25
5 mg	0.06	0.20
2 mg	0.06	0.20
1 mg	0.06	0.20

TABLE 5
Carat (metric) weights

Bailliwick standard of ~ CM	Limit of error in milligrams
500	1.5
200	0.93
100	0.80
50	0.60
20	0.47
10	0.40
5	0.30
2	0.23
1	0.20
0.5	0.15
0.25	0.12
0.20	0.11
0.10	0.10
0.05	0.08
0.02	0.06
0.01	0.06

TABLE 6
Test weights

Imperial weight	Limit of error	Metric weight	Limit of error
11200 lb	500 g		
4480 lb	200 g	5000 kg	500 g
2240 lb	100 g	2000 kg	200 g
1120 lb	50 g	1000 kg	100 g
1008 lb	50 g	500 kg	50 g
560 lb	20 g	250 kg	20 g
448 lb	20 g	200 kg	20 g
224 lb	10 g	100 kg	10 g
112 lb	5 g	50 kg	5 g
56 lb	1.25 g	20 kg	1 g
50 lb	1.1 g	10 kg	500 mg
28 lb	650 mg	5 kg	250 mg
20 lb	450 mg		
14 lb	320 mg		

EXPLANATORY NOTE

(This Note is not part of the Regulations)

These Regulations prescribe the methods of testing and adjusting, and the limits of error for, working standard weights and certain testing equipment used for weighing by inspectors of weights and measures. They also make provision for limits of error for Bailiwick standard weights and for the period of validity of certificates of fitness of those standards.