
STATUTORY RULES OF NORTHERN IRELAND

1999 No. 444

ELECTRICITY

Meters (Certification) Regulations (Northern Ireland) 1998

Made - - - - 15th December 1999

Coming into operation 1st February 1999

The Director General of Electricity Supply for Northern Ireland, in exercise of the powers conferred on him by Articles 34 and 64 of, and paragraph 6 of Schedule 7 to, the Electricity (Northern Ireland) Order 1992⁽¹⁾, and of every other power enabling him in that behalf, and with the consent of the Department of Economic Development in accordance with Article 2(2) of that Order, hereby makes the following Regulations:—

Citation and commencement

1. These Regulations may be cited as the Meters (Certification) Regulations (Northern Ireland) 1998 and shall come into operation on 1st February 1999.

Interpretation

2. In these Regulations—

“approved” means approved by or under Regulations made under paragraph 3 of Schedule 7 to the Order;

“authorised examiner” means a person who is authorised in accordance with regulation 5;

“authorised manufacturer” means a person who is authorised in accordance with regulation 3;

“authorised repairer” means a person who is authorised in accordance with regulation 4;

“certification period” means, in the case of a meter of a type specified in columns 1 to 6 (inclusive) of Schedule 4, the period stated in relation thereto in column 7 of that Schedule and, in the case of any other meter, the period of 10 years, the period beginning in each case on the date on which the meter is certified for the purpose of the Order;

“directions” means any directions issued by the Director under paragraph 7(1) of Schedule 7 to the Order;

“EEA Agreement” means the Agreement on the European Economic Area signed at Oporto on 2nd May 1992⁽²⁾ as adjusted by the Protocol signed at Brussels on 17th March 1993⁽³⁾.

⁽¹⁾ S.I. 1992/231 (N.I. 1)

⁽²⁾ O.J. No. L1, 3.1.94, p. 3

⁽³⁾ O.J. No. L1, 3.1.94, p. 572

“EEA State” means a state which, at the date of the entry into force of these Regulations, is a Contracting Party to the EEA Agreement;

“equivalent European provisions” has the meaning given by regulation 8;

“meter examiner” means a person appointed under paragraph 5 of Schedule 7 to the Order;

“the Order” means the Electricity (Northern Ireland) Order 1992; and

“permitted margins of error” means the margins of error referred to in regulation 7.

Authorised manufacturer

3.—(1) Subject to paragraph (3) any person who manufactures meters and satisfies the Director that—

- (a) he owns or has available to him apparatus for the examination, testing and regulation of meters which complies with directions;
- (b) he operates at a manufacturing unit a quality assurance system in respect of every meter manufactured by him at that unit which conforms to the standard contained in European Standard EN ISO 9001(4), or to any standard, technical regulation, manufacturing method or code of practice accepted in other EEA States conformity with which will achieve an equivalent assurance of quality; and
- (c) he would be capable of complying with the conditions set out in paragraph (2),

may be authorised by the Director for the purpose of these Regulations in respect of meters manufactured by him at that manufacturing unit for a period not exceeding three years but so that any authorisation may be renewed from time to time.

(2) An authorisation granted by the Director to a person who satisfies the provisions of paragraph (1) shall be subject to the following conditions—

- (a) that the authorisation will only apply in respect of meters which have been examined, tested and regulated using the apparatus referred to in sub-paragraph (a) of paragraph (1);
- (b) that the authorised person will operate at all times at each manufacturing unit a quality assurance system which conforms to the standard referred to in sub-paragraph (b) of paragraph (1) and will maintain a record in permanent form of the system which he operates and of the actions taken to comply with that system in respect of the meter or meters which he intends to submit for certification in accordance with regulation 6;
- (c) that the authorised person shall secure that each meter referred to in sub-paragraph (b) shall be examined and tested in accordance with the provisions of Schedule 1 or one of the equivalent European provisions;
- (d) that the authorised person shall cause every meter in respect of which a certificate has been issued under regulation 7 or 9 to be so stored while it remains under his control and so packaged for delivery when it is to be dispatched from his control as to prevent, so far as reasonably practicable, damage which would cause it to operate in a manner which would not conform with the permitted margins of error;
- (e) that the authorised person will permit the Director or any persons duly authorised by him to have access to any manufacturing unit and to examine and test all apparatus and to inspect all records referred to in this paragraph at all reasonable times for the purpose of ensuring that the authorised person is complying with the conditions of his authorisation; and
- (f) that the authorised person will comply with directions.

(4) EN ISO 9001 is a European Standard entitled “Quality systems. Model for quality assurance in design, development, production, installation and servicing” which has been adopted in the United Kingdom as BS EN ISO 9001 and is published by the British Standards Institution (ISBN 0 580 23439 8) and was effective from 15th July 1994

(3) An authorisation under this regulation may be terminated at any time by the Director upon giving not less than 28 days' notice to the authorised person if he is in breach of any condition of his authorisation and (in the case of a breach which is capable of being remedied) has failed to remedy that breach as soon as reasonably practicable after notice has been given to him by the Director specifying the breach.

(4) For the purpose of this regulation and Schedule 2—

- (a) a person shall be treated as manufacturing a meter if he has caused the meter to be assembled so as to comply with the conditions of his authorisation but has not himself manufactured every component part of the meter;
- (b) “assembled” includes the carrying out of repairs or modifications to a meter within a period of twelve months after the date upon which a certificate in respect of that meter was first issued under regulation 7 or 9; and
- (c) “manufacturing unit” means premises specified to the Director in writing (which may identify the premises by reference to a plan) at which meters are manufactured but excludes any premises or that part of any premises which are used, otherwise than as provided in sub-paragraph (b), for the cleaning and repair of meters which have previously been used for measuring the quantity of electricity supplied.

Authorised repairer

4.—(1) Subject to paragraph (3) any person who repairs meters and satisfies the Director that—

- (a) he owns or has available to him apparatus for the examination, testing and regulation of meters which complies with directions;
- (b) he operates at a repair unit a quality assurance system in respect of every meter repaired by him at that unit which conforms to the standard contained in European Standard EN ISO 9002(5), or to any standard, technical regulation, manufacturing method or code of practice accepted in any EEA State conformity with which will achieve an equivalent assurance of quality; and
- (c) he would be capable of complying with the conditions set out in paragraph (2), may be authorised by the Director for the purpose of these Regulations in respect of meters repaired by him at that repair unit for a period not exceeding three years but so that any authorisation may be renewed from time to time.

(2) Any authorisation granted by the Director to a person who satisfies the provisions of paragraph (1) shall be subject to the following conditions—

- (a) that the authorisation will only apply in respect of meters which have been examined, tested and regulated using the apparatus referred to in sub-paragraph (a) of paragraph (1);
- (b) that the authorised person will operate at all times at each repair unit a quality assurance system which conforms to the standard referred to in sub-paragraph (b) of paragraph (1) and will maintain a record in permanent form of the system which he operates and of the actions taken to comply with that system in respect of the meter or meters which he intends to submit for certification in accordance with regulation 6;
- (c) that the authorised person will cause each meter which is repaired at a repair unit to be repaired to a standard and using such materials as would reasonably be expected to enable it to operate within the permitted margins of error for not less than the certification period;

(5) EN ISO 9002 is a European Standard entitled “Quality systems. Model for quality assurance in production, installation and servicing” which has been adopted in the United Kingdom as BS EN ISO 9002 and is published by the British Standards Institution (ISBN 0 580 23440 1) and was effective from 1st July 1994

- (d) that the authorised person shall secure that each meter referred to in sub-paragraph (b) shall be examined and tested in accordance with the provisions of Schedule 1 or one of the equivalent European provisions
- (e) that the authorised person shall cause every meter in respect of which a certificate has been issued under regulation 7 or 9 to be so stored while it remains under his control and so packaged for delivery when it is to be dispatched from his control as to prevent, so far as reasonably practicable, damage which would cause it to operate in a manner which would not conform with the permitted margins of error;
- (f) that the authorised person will permit the Director or any person duly authorised by him to have access to any repair unit and to examine and test all apparatus and to inspect all records referred to in this paragraph at all reasonable times for the purpose of ensuring that the authorised person is complying with the conditions of his authorisation; and
- (g) that the authorised person will comply with directions.

(3) An authorisation under this regulation may be terminated at any time by the Director upon giving not less than 28 days' notice to the authorised person if he is in breach of any condition of his authorisation and (in the case of a breach which is capable of being remedied) has failed to remedy that breach as soon as reasonably practicable after notice has been given to him by the Director specifying the breach.

(4) For the purpose of this regulation and Schedule 2 “repair unit” means premises specified to the Director in writing (which may identify the premises by reference to a plan) at which meters which have previously been used for measuring the quantity of electricity supplied are cleaned, repaired, tested or regulated but excluding any premises or that part of any premises which are used for the manufacture or assembly of meters.

Authorised examiner

5.—(1) A public electricity supplier, an authorised manufacturer or an authorised repairer may nominate a competent person for the purpose of this regulation.

(2) If the Director is satisfied that a person nominated under paragraph (1) is competent to carry out the functions contained or referred to in regulation 7 the Director may authorise that person to be an examiner for the purpose of certifying meters for the purpose of the Order.

(3) Subject to paragraphs (6) and (7), an authorisation under paragraph (2) shall be granted for a period of 3 years but so that any such authorisation may be renewed from time to time.

(4) A person authorised to be an examiner shall not be authorised to examine any meter which he has (wholly or partly) manufactured or repaired, or one which he has examined, tested or regulated in a capacity other than that of an examiner authorised under paragraph (2).

(5) An authorisation granted by the Director to a person who satisfies the provisions of paragraph (2) shall be subject to the following conditions—

- (a) that the authorisation will only apply in respect of meters which have been manufactured or repaired (as the case may be) by the person by whom he was nominated under paragraph (1);
- (b) that, where regulation 9 applies, he will examine and test not less than the number of meters selected in accordance with a sampling procedure determined by the Director having regard to national or international sampling procedures or plans;
- (c) that he will send to the Director not more than seven days after the expiry of each month a report stating the number of meters which have been submitted to him in accordance with regulation 6 and the number of meters in respect of which a certificate has been issued under regulation 7 or 9 during the preceding month; and

- (d) that he will retain a copy of each certificate issued by him for a period of not less than one year from the date of issue and will produce the copy to the Director if requested to do so.
- (6) An authorisation under this regulation may be terminated at any time by the Director upon giving not less than 28 days' notice to the authorised person if—
 - (a) he is in breach of any condition of his authorisation and (in the case of a breach which is capable of being remedied) has failed to remedy that breach as soon as reasonably practicable after notice has been given to him by the Director specifying the breach;
 - (b) he fails to exercise proper care and attention in performing his functions under regulation 7 or 9; or
 - (c) he is unable (otherwise than temporarily) to perform his functions under regulation 7 or 9.
- (7) Where—
 - (a) a person nominated under paragraph (1) and authorised under paragraph (2) is temporarily unable for any reason to act as an authorised examiner; and
 - (b) the person by whom he was nominated has nominated another person under paragraph (1) who has been authorised under paragraph (2); and
 - (c) the person referred to in sub-paragraph (a) of this paragraph is again able to act as an authorised examiner,

the Director may give not less than 28 days in writing to the authorised person referred to in sub-paragraph (b) of this paragraph terminating his authorisation.

Application for certification

6.—(1) A person who requires a meter to be certified for the purposes of the Order may submit the meter to an authorised examiner who is authorised to certify a meter submitted by that person, or to a meter examiner.

(2) Each meter which is submitted for certification pursuant to regulation 9 shall be accompanied by a report signed by an authorised manufacturer, an authorised repairer or a public electricity supplier.

(3) A report for the purpose of paragraph (2) shall contain the statements and information specified in Schedule 2 which is appropriate to the type of meter to which it relates including, where that meter is designed to operate with a transformer, the statements and information relating to the transformer.

Procedure for certification

7.—(1) Subject to regulation 9, a meter which is submitted to a meter examiner or an authorised examiner shall not be certified by him unless, in addition to being satisfied as required by paragraph 6(2)(a) of Schedule 7 to the Order that the meter is of an approved pattern or construction, he is satisfied—

- (a) either that the meter has been tested in accordance with the provisions of Schedule 3, conforms to the standards described in that Schedule and can reasonably be expected to operate within the permitted margins of error for not less than the certification period or that it has been tested in accordance with and conforms to one of the equivalent European provisions; and
- (b) that it has been sealed in accordance with directions.

(2) The permitted margins of error shall be an error not exceeding 2.5 per centum plus or 3.5 per centum minus at any load at which the meter is designed to operate.

(3) Where the examiner is satisfied that a meter complies with paragraph (1), he shall issue a certificate of compliance specifying the serial number of the meter, and thereupon that meter shall be a meter certified for the purpose of the Order.

(4) Each certificate issued under paragraph (3) shall be numbered in the sequence in which it is issued.

Equivalent European Provisions

8.—(1) Equivalent European provisions are—

- (a) the provisions as to verification in Council Directive 76/891/EEC(6) as amended by Commission Directive No.82/621/EEC(7) and Protocol 1 and Part IX of Annex II to the EEA Agreement;
- (b) European Standard EN 61036(8); and
- (c) any standard, technical regulation, manufacturing method or code of practice accepted by other EEA States conformity with which will ensure a level of precision, security, safety, durability and fitness for purpose equivalent to that assured by conformity to Schedule 3.

(2) A meter examiner or an authorised examiner to whom a meter has been submitted under regulation 6 shall take into account the results of checks and tests carried out by the bodies and laboratories of other EEA States if the checks and tests have been carried out in conformity with European standard EN 45001(9).

Batch certification

9. Where—

- (a) a number of meters have been submitted to an examiner at the same time by the same person;
- (b) that person is a public electricity supplier, an authorised manufacturer or an authorised repairer;
- (c) each meter is of an approved pattern or construction and is accompanied by the report referred to in regulation 6(2); and
- (d) the examiner has examined and tested a sufficient number of meters to satisfy himself that it provides a reasonable test of all of them,

he may issue a certificate in respect of all the meters so submitted to him specifying or identifying the serial number of each meter and including all the information contained in the report submitted under regulation 6(2) and thereupon each of those meters shall be a meter certified for the purpose of the Order.

Duration of certification

10. A meter certified or deemed to be certified for the purpose of the Order shall cease to be so certified or deemed to be so certified—

- (a) if the approval of the pattern or construction of that meter is revoked;
- (b) if it is or becomes installed in a manner which is not an approved manner of installation;

(6) O.J. No. L336, 4.12.76, p. 30

(7) O.J. No. L252, 27.8.82, p. 1

(8) EN 61036 is a European Standard entitled “Alternating current static watt – hour meters for active energy (Classes 1 and 2)” which has been adopted in the United Kingdom as BS EN 61036 and is published by the British Standards Institution (ISBN 0 580 19283 0) and was effective from 31st January 1991

(9) EN 45001 is a European Standard which is equivalent to BS 7501 (ISBN 0 580 17939 7), “general criteria for the operation of testing laboratories”, published by the British Standards Institution and having effect from 31st October 1989

- (c) if any alteration is made to the meter;
- (d) if the meter ceases to operate within the permitted margins of error; or
- (e) at the expiry of its certification period.

whichever occurs first. whichever occurs first.

Fees

11.—(1) Subject to paragraph (2), any person who submits under regulation 6 a meter to a meter examiner for certification shall pay to the Director in accordance with paragraph (4), a fee of 34 pence in respect of each meter so submitted.

(2) Where a fee has already been paid to the Director General of Electricity Supply in respect of the submission of a meter for certification under the Electricity Act 1989(10), no fee shall be payable under paragraph (1) in respect of that meter.

(3) Within seven days after the last day of each calendar month in which a person has submitted a meter to a meter examiner under regulation 6, he shall deliver to the Director a statement of the number of meters which he has submitted during the preceding month.

(4) Within thirty days of the delivery of the statement referred to in paragraph (3), he shall pay to the Director a fee calculated in accordance with paragraph (1) in respect of the meters referred to in that statement.

(5) Subject to paragraph (6), any person who nominates an authorised examiner under regulation 5, other than in the circumstances set out in regulation 5(7)(a) and (b), shall pay to the Director a fee of £7,600 in respect of that examiner's authorisation.

(6) Where the Director is satisfied that the number of meters which will be submitted under regulation 6 to an authorised examiner in the period of 12 months beginning on the date of his authorisation is likely to be less than 1,000, the fee in respect of the authorisation shall be £540.

(7) Paragraphs (5) and (6) shall apply to the renewal of an authorisation under regulation 5 as it applies to an original authorisation granted under that regulation.

Sealed with the Official Seal of the Department of Electricity Supply for Northern Ireland on

15th December 1998.

Douglas B. McIlldoon
Director General of Electricity Supply for
Northern Ireland

*Status: This is the original version (as it was originally made). Northern
Ireland Statutory Rules are not carried in their revised form on this site.*

The Department of Economic Development hereby consents to the foregoing Regulations.
Sealed with the Official Seal of the Department of Economic Development on

15th December 1998.

J.E. Wolstencroft
Assistant Secretary

SCHEDULE 1

Regulations 3(2)(c) and 4(2)(d)

**Authorised Manufacturers' and authorised repairers' tests
and testing methods for alternating current watt-hour meters**

Pre-heating

1.—(1) The following tests shall not be carried out until the voltage circuits of meters under test and the voltage circuit of working standard integrating meters have been energised for a period of one hour or half an hour if a current of not less than either 10% of basic current or 5% of marked current is applied to the current circuit of the meters, save that the non-registration and starting current tests may be carried out during the pre-heating period.

(2) Sub-paragraph (1) shall not apply to a meter which the examiner is satisfied is capable of full operation as soon as it is energised.

Non-registration test

2. Induction meters

(1) Induction meters shall be tested to ensure that when the current circuits are open and a voltage of 110% of the declared system voltage is applied to the voltage circuits, rotors cease to rotate before completing one complete revolution.

Static meters

(2) Static meters shall be tested for non-registration by one of the following methods—

Method 1

(a) (i) When subjected to the test conditions specified in paragraph 2(1), the meter shall not emit more than one output pulse over the minimum test period determined in paragraph (ii);

(ii) the minimum test period (t) shall be computed by the formula:

$$t \geq 480 \times 106 k.m.V.Im \text{ minutes}$$

where:

k = number of pulses per kWh emitted by the meter

m = number of elements

V = declared system voltage

Im = marked maximum current.

Method 2

(b) When static meters are fitted with inhibiting circuits, they may be tested for non-registration with a current, which is less than the threshold current in respect of a meter of that type, applied to the current circuits and a voltage of 100% of the declared system voltage applied to the voltage circuits of the meters under test. Meters shall not emit more than one output pulse over the minimum test period (t) determined as follows—

$$t = 126000 V \times I \times k \times pf \text{ minutes}$$

where:

V = declared system voltage

I = total current of all phases

k = number of pulses emitted per kWh by the meter
 pf = power factor.

Method 3

- (c) The period calculated for Method 1 or Method 2 may be halved if the meters under test do not emit any output pulses during the period of the test.

Accuracy tests

3.—(1) Apparatus used for determining the errors of repaired meters during these tests shall comply with the directions.

(2) The rate of advance of a meter over a test period shall be obtained by reading the electro-mechanical register or electronic display on or connected to meters or by monitoring the rotation of a disc or pulse output of a meter.

(3) For any test load, the load applied to a working standard integrating meter shall not be less than 25% or more than 125% of its full load rating.

(4) For a working standard wattmeter, the applied load shall not be less than 40% or more than 100% of its full scale or range reading.

Methods of accuracy test

4. Method A test

4.—(1) A long period dial test where the advance of a kWh display, which is part of or connected to a meter under test, is compared with the advance of a precision kilowatt-hour meter.

Method B test

(2) A short period test where the rate of advance of a meter under test is compared to the rate of advance of a precision kilowatt-hour meter.

Method C test

(3) A short period test where the actual rate of advance of a meter when tested under constant power conditions over a specified test period, is compared to the calculated rate of advance for those conditions.

Conditions for all testing

5.—(1) The tests shall be carried out in accordance with Table 1.

Meter position

(2) The meter position requirement given in Table 1 applies to induction meters only. Tolerance applies to the vertical wall on which the meter base is mounted and a horizontal reference line or edge on the meter such as the lower edge of the terminal block.

Voltage and current supplies for polyphase meters

- (a) The order of the phases shall correspond to the sequence shown on the connection diagram.
(b) The voltages shall be balanced so that the voltage between any line and neutral or between any two lines shall not differ by more than 1.5% from the mean of the corresponding voltages.

- (c) The currents shall be balanced so that the current in any conductor shall not differ by more than 2.5% from the mean of these currents.
- (d) The phase displacement between the current and corresponding phase to neutral voltage shall not differ from other current and voltage phase displacements by more than 3° at any power factor under any specified load conditions.

External magnetic induction

(4) The test given in Table 1 in respect of external magnetic induction shall be carried out during commissioning or after major modification or refurbishing of a meter testing system. The test consists of determining the errors at 0.11b unity power factor with the meters normally connected and then determining the errors —

- (a) for single phase meters, after reversing both current and voltage connections, for which half the difference between the two errors is the value of the variation;
- (b) for polyphase meters, by making two additional measurements after each of the connections to the current circuits and to the voltage circuits are changed over 120° but with the phase sequence unaltered, for which the greatest difference between each error determined and the mean of the three errors is the value of the variation.

Dial tests

(5) Where all the errors of repaired meters are determined by Method B or Method C test an additional test in accordance with Method A shall be carried out. The Method A test shall be carried out at one of the loads used for the Method B or Method C test. The error obtained by the Method A test shall not differ by more than 0.6% from the error obtained at the same load value by the Method B or Method C test.

Duration of test

(6) The tests described in paragraph 4 shall continue until the error of meters can be calculated within a tolerance not greater than $\pm 0.2\%$.

Conditions for mixing methods of tests

(7) Method A tests may be used for intermediate and high loads, at unity and at 0.5 power factor, and Method B or Method C tests for the low load, provided that an additional Method B or Method C test is carried out at one of the test load values used for the Method A tests.

Test loads

1.—(1) Every repaired meter shall be tested at each of the loads specified in Table 2, except that test number 2 in that Table may be omitted.

(2) Every new meter shall be calibrated and tested at a sufficient number of load points so as to ensure that meter errors are not greater than the limits specified in paragraph 9.

(3) A test for starting will also be carried out on new meters in accordance with test number 7 of Table 2.

(4) The ratio errors shall be determined for voltage transformers that are intended for use with meters but are not tested with a meter.

(5) Current transformers intended for use with meters but not tested with a meter shall be tested from 5% to 120% of rated current.

Multi-register meters

7. Induction meters

- (a) All induction meters with more than one register shall be tested on one register in accordance with paragraphs 5 and 6 and on each and every other register at a low load using Method A, Method B or Method C tests and at a high load using Method A test.
- (b) For the same load conditions the maximum permitted difference between the error on one register (expressed as a percentage) and the error on any other register (expressed as a percentage) is one.

Static meters

- (a) All static meters with more than one register shall be tested on one register in accordance with paragraphs 5 and 6.
- (b) For repaired meters with more than one register —
 - (i) where the total units are the sum of all the registers, a further test shall be carried out on each and every other register using Method A but
 - (ii) where the total units are recorded on one register, only that register is required to be tested in accordance with paragraphs 5 and 6.

Ployphase meters

8.—(1) very polyphase meter shall be tested on a circuit having a phase relationship for which that meter is designed. However, three phase, four wire polyphase meters may be tested without current in the neutral conductor.

- (2) Polyphase meters shall be tested by using—
 - (a) a polyphase kilowatt-hour energy standard;
 - (b) 2 or 3 singlephase kilowatt-hour energy standards; or
 - (c) 2 or 3 singlephase wattmeters.

Margins of Error

- 9.—(1) The maximum error permitted for—
 - (a) single phase and polyphase whole current meters; and
 - (b) single phase and polyphase transformer operated meters when tested with transformers connected

shall not exceed plus or minus 1.5% for tests numbers 1, 2, 3 and 4 given in Table 2.

(2) The maximum error permitted for both single phase and polyphase transformer operated meters, when tested without transformers connected, shall not exceed plus or minus 1.0% for tests numbers 1, 2, 3 and 4 given in Table 2.

(3) The maximum error permitted for polyphase whole current and transformer operated meters, when tested with transformers connected, shall not exceed plus 1.7% or minus 2.7% for tests 5 and 6 given in Table 2.

(4) The maximum error permitted for polyphase transformer operated meters, when tested without transformers connected, shall not exceed plus 1.2% or minus 2.2% for test numbers 5 and 6 given in Table 2.

(5) Where current and voltage transformers, which are intended to be used with meters, are not tested connected to a meter then the total error of the transformers at any load point throughout the rated range shall not exceed 0.5%.

Insulation property test

10. Each meter shall be tested to demonstrate that the insulation of the meter is of a sufficient standard to enable the meter to operate safely and correctly in the conditions in which it could reasonably be expected to be installed and operated.

TABLE 1

<i>Influence Quantities</i>	<i>Reference Value</i>	<i>Tolerance</i>
Ambient temperature	Reference temperature or, if not indicated, 23°C.	>15°C to <30°C ±3°
Meter Position	Vertical	±1.5%
Voltage	Reference voltage	±0.5%
Frequency	Reference frequency 50Hz	
Voltage and current waveform	Sinusoidal form	Distortion factor <5%
External magnetic induction at the reference frequency (paragraph 5(4))	Zero	Induction value that does not produce a relative error variation of more than ±0.3%

TABLE 2

<i>Test Number and Load</i>	<i>Power Factor</i>	<i>Test load in terms of marked current</i>				<i>Meter Type</i>	<i>Polyphase Meter Load</i>
		<i>Basic/ Maximum</i>	<i>Maximum continuous</i>	<i>Long Range</i>	<i>Short Range</i>		
1 (high)	1	I _{max}	100%	100%-200% (Note 1)	100%-125% (Note 1)	Single and polyphase	Balanced
2 (intermediate)	1	I _b or 125% I _b	Any load between 25%-75% of the value specified for Test Number 1			Single and polyphase	Balanced
3 (low)	1	5% I _b	1,67% (Note 2)	5%	5%	Single and polyphase	Balanced
4 (inductive)	0.5 (Note 3)	I _b or I _{max}	100%	The same value selected for Test Number 1		Single and polyphase	Balanced
5 (element)	1	I _b	100%	The same value selected for Test Number 1		Polyphase	One phase loaded in turn
Note 1	Where a range is given, any value within that inclusive range may be selected.						
Note 2	For maximum continuously rated prepayment meters, the low load test value may be twice the value shown.						
Note 3	For Test Numbers 4 and 6, the inductive power factor shall be between 0.45 and 0.55 inclusive.						

<i>Test Number and Load</i>	<i>Power Factor</i>	<i>Test load in terms of marked current</i>				<i>Meter Type</i>	<i>Polyphase Meter Load</i>
		<i>Basic/ Maximum</i>	<i>Maximum continuous</i>	<i>Long Range</i>	<i>Short Range</i>		
6 (inductive) (element)	0.5 (Note 3)	Ib	100%	The same value selected for Test Number 1		Polyphase	One phase loaded in turn
7 (starting-current)	1	0.5% Ib to 1.0% Ib	0.5% to 1.0%	0.5% to 1.0%	0.5% to 1.0%	Single and polyphase	Balanced
Note 1				Where a range is given, any value within that inclusive range may be selected.			
Note 2				For maximum continuously rated prepayment meters, the low load test value may be twice the value shown.			
Note 3				For Test Numbers 4 and 6, the inductive power factor shall be between 0.45 and 0.55 inclusive.			

SCHEDULE 2

Regulation 6(3)

REPORT ON METER TESTS

1. In respect of each meter to which the report refers, a statement—
 - (a) that the meter referred in the report is accurately described and whether it is a new or repaired meter;
 - (b) that the meter has been examined and tested in accordance with Schedule 1 or one of the equivalent European provisions;
 - (c) that the uncertainty of measurement was not greater than $\pm 0.4\%$ at unity power factor or greater than $\pm 0.6\%$ at 0.5 inductive power factor;
 - (d) that no meter error was greater than any error specified either in the relevant sub-paragraph of paragraph 9 of Schedule 1 or in one of the equivalent European provisions;
 - (e) that the meter did not register when energised on voltage only, whether with or without a current less than the threshold current; and
 - (f) if applicable, as to whether paragraph 1(2) of Schedule 1 did or did not apply (as the case may be).
2. In respect of each meter to which the report refers, the following particulars—
 - (a) the name of the person responsible for the manufacture or repair of the meter;
 - (b) the name and address of the manufacturing unit or repair unit where the meter was examined and tested;
 - (c) the number of the report and any identification marks impressed on the meter seals in accordance with the provisions of directions;
 - (d) the declared system voltage on which the meter is to be used;
 - (e) the make and type of the meter, stating the nominal frequency if other than 50Hz;
 - (f) the marked current and voltage rating of the meter; and
 - (g) the serial number of the meter.

3. A report may include the errors obtained at each test load and an end of test meter reading.
4. In the case of a meter intended for use with and tested with a transformer or transformers, the following additional information shall be included in the report—
 - (a) the make, output rating, serial number and classification of each transformer to be used with the meter;
 - (b) for a polyphase meter, the phase to which each transformer was connected;
 - (c) particulars and electrical burdens of any other meter, instrument or external attachments that are to be used in conjunction with a transformer operated meter.
5. Where a transformer intended for use with a meter has been tested, a statement shall be included in the report that—
 - (a) the transformer referred to in the report is accurately described and whether it is a new or used transformer;
 - (b) the transformer has been examined and tested in accordance with Schedule 1 or Harmonisation Documents 553 S2(11) and 554 S1(12) approved on 24th March 1992 by the European Committee for Electrotechnical Standardization;
 - (c) the uncertainty of measurement was not greater than plus or minus 0.1%;
 - (d) no transformer error was greater than plus or minus 0.5% at any load from 5% to 120% of full load when connected to the maximum rated burden or, if known, the working burden
6. A report for a transformer shall also include the following information:
 - (a) the name and address of the manufacturing unit or the repair unit where the transformer was examined and tested;
 - (b) the make and type of the transformer;
 - (c) the nominal frequency if other than 50Hz;
 - (d) the marked current or voltage ratio of the transformer and the working or maximum permissible burden that can be connected to the transformer; and
 - (e) the serial number of the transformer.
7. The meter or transformer errors obtained at each test load may also be included in these reports.
8. Before a meter is submitted for certification, the report on the meter and any transformer submitted with it shall be verified and signed by the person in charge of manufacture or repair (as the case may be) or by a person nominated by him.

(11) Harmonisation Document 553 S2 entitled “Current transformers” has been adopted in the United Kingdom as BS 7626 entitled “Specifications for current transformers” published by the British Standards Institution (ISBN 0 580 21575 X) and was effective from 15th November 1993

(12) Harmonisation Document 554 S1 entitled “Voltage transformers” has been adopted in the United Kingdom as BS 7625 entitled “Specification of voltage transformers” published by the British Standards Institution (ISBN 0 580 21573 3) and was effective from 15th February 1993

SCHEDULE 3

Regulation 7(1)(a)

CERTIFICATION TESTS AND TESTING METHODS
FOR ALTERNATING CURRENT WATTHOUR METERS

Pre-heating

1.—(1) The following tests shall not be carried out until the voltage circuits of meters under test and the voltage circuit of the working standard integrating meters have been energised for a period of one hour or half an hour if a current of not less than either 10% of basic current or 5% of marked current is applied to the current circuit of the meters, save that the non-registration test may be carried out during the pre-heating period.

(2) Sub-paragraph (1) shall not apply to a meter which the examiner is satisfied is capable of full operation as soon as it is energised.

Non-registration test*Induction meters*

2.—(1) Induction meters shall be tested to ensure that when the current circuits are open and a voltage of 110% of the marked voltage is applied to the voltage circuits, rotors cease to rotate before completing one revolution.

Static meters

(2) Static meters shall be tested for non-registration by one of the following methods—

Method 1

(a) (i) When subjected to the test conditions specified in paragraph 2(1), the meter shall not emit more than one output pulse over the minimum test period determined in paragraph (ii);

(ii) the minimum test period (t) shall be computed by the formula:

$$t \geq 480 \times 106 k.m.V. \text{Iminutes}$$

where:

k = number of pulses per kWh emitted by the meter

m = number of elements

V = declared system voltage

I_m = marked maximum current.

Method 2

(b) When static meters are fitted with inhibiting circuits, they may be tested for non-registration with a current, which is less than the threshold current in respect of a meter of that type, applied to the current circuits and a voltage of 100% of the marked voltage applied to the voltage circuits of the meters under test. Meters shall not emit more than one output pulse over a minimum test period (t) determined as follows—

$$t = 126000V \times I \times k \times pf \text{minutes}$$

where:

V = declared system voltage

I = total current of all phases

k = number of pulses per kWh emitted by the meter
 pf = power factor.

Accuracy tests

3.—(1) Apparatus used for determining the errors of meters during these tests shall comply with directions.

(2) The rate of advance of a meter over a test period shall be obtained by reading the electro-mechanical register or electronic display on or connected to the meter or by monitoring the rotation of the disc or pulse output of meters.

(3) For any test load applied to the meters under test, the load applied to a working standard integrating meter shall not be less than 25% or more than 125% of its full load rating.

(4) For a working standard wattmeter, the applied load shall not be less than 40% or more than 100% of its full scale or range reading.

Methods of accuracy test

4. Method A test

4.—(1) A long period dial test where the advance of a kWh display, which is part of or connected to a meter under test, is compared with the advance of a precision kilowatt-hour meter.

Method B test

(2) A short period test where the rate of advance of a meter under test is compared to the rate of advance of a precision kilowatt-hour meter.

Method C

(3) A short period test where the actual rate of advance of a meter, when tested under constant power conditions over a specified test period is compared to the calculated rate of advance for those conditions.

Conditions for testing

5.—(1) The tests shall be carried out in accordance with Table 1.

Ambient temperature

(2) Tests may be carried out at a temperature outside the temperature range given in Table 1, but within the range 15°C to 30°C, providing a correction is made in relation to the reference temperature by using the mean temperature co-efficient of the meters under test and of the working standard meter(s) used for determining meter errors.

Meter position

(3) The meter position requirement given in Table 1 applies to induction meters only. Tolerance applies to the vertical wall on which the meter base is mounted and a horizontal reference line or edge on the meter such as lower edge of the terminal block.

Voltage and current supplies for polyphase meters

(a) The order of the phases shall correspond to the sequence shown on the connection diagram.

- (b) The voltages shall be balanced so that the voltage between any line and neutral or between any two lines shall not differ by more than 1.5% from the mean of the corresponding voltages.
- (c) The currents shall be balanced so that the current in any conductor shall not differ by more than 2.5% from the mean of these currents.
- (d) The phase displacement between the current and corresponding phase to neutral voltage shall not differ from other current and voltage phase displacements by more than 3° at any power factor under any specified load conditions.

External magnetic induction

(5) The test given in Table 1 in respect of external magnetic induction shall be carried out during commissioning or after major modification or refurbishing of a meter testing system. The test consists of determining the errors at 0.1 Ib unity power factor with the meters normally connected and then determining the errors—

- (a) for single phase meters, after reversing both current and voltage connections, for which half the difference between the two errors is the value of the variation;
- (b) for polyphase meters, by making two additional measurements after each of the connections to the current circuits and to the voltage circuits are changed over 120° but with the phase sequence unaltered, for which the greatest difference between each error determined and the mean of the three errors is the value of the variation.

Dial tests

(6) Where all the errors of meters are determined by Method B or Method C test, an additional test in accordance with Method A shall be carried out. The Method A test shall be carried out at one of the loads used for the Method B or Method C test. The error obtained by the Method A test shall not differ by more than 0.6% from the error obtained at the same load value by the Method B or Method C test.

Duration of test

(7) The tests described in paragraph 4 shall continue until the error of meters can be calculated within a tolerance of not greater than plus or minus 0.2%.

Conditions for mixing methods of test

(8) Method A tests may be used for intermediate and high loads, at unity power factor and at 0.5 power factor, and Method B or Method C tests for the low load, provided that an additional Method B or Method C test is carried out at one of the test load values used for the Method A tests.

Test loads

- 6.—(1) Every meter shall be tested at each of the loads specified in Table 2.
- (2) The ratio errors shall be determined for voltage transformers intended for use with meters but not tested with a meter.
- (3) Current transformers intended for use with meters but not tested with a meter shall be tested from 5% to 120% of rated current.

Multi-register meters

- 7. Induction meters

- (a) All induction meters with more than one register shall be tested on one register in accordance with paragraphs 5 and 6, and on each and every other register at a low load using Method A, Method B or Method C tests and at an intermediate or high load using Method A test.
- (b) For the same load conditions the maximum permitted difference between the error on one register (expressed as a percentage) and the error on any other register (expressed as a percentage) is one.
- (c) Every register change mechanism shall be tested for correct operation with an applied voltage of 90% of the declared system voltage.

Static meters

- (a) All static meters with more than one register shall be tested on one register in accordance with paragraphs 5 and 6.
- (b) On static meters with more than one register, where the total units are the sum of all the registers, a further test shall be carried out on each and every other register using Method A.
- (c) On static meters with more than one register, where the total units are recorded on one register, only this register is required to be tested in accordance with paragraphs 5 and 6.

Polyphase meters

8.—(1) Every polyphase meter shall be tested on a circuit having a phase relationship for which that meter is designed. However, three phase, four wire polyphase meters may be tested without current in the neutral conductor.

- (2) Polyphase meters shall be tested by using—
 - (a) a polyphase kilowatt-hour energy standard;
 - (b) 2 or 3 single phase kilowatt-hour energy standards; or
 - (c) 2 or 3 single phase wattmeters.

Margins of error

- 9.—(1) The maximum error permitted for—
 - (a) single phase and polyphase whole current meters; and
 - (b) single phase and polyphase transformer operated meters when tested with transformers connected

shall not exceed plus or minus 1.9% for test numbers 1, 2, 3 and 4 in Table 2.

(2) The maximum error permitted for both single phase and polyphase transformer operated meters, when tested without transformers connected, shall not exceed plus or minus 1.4% for test numbers 1, 2, 3 and 4 given in Table 2.

(3) The maximum error permitted for polyphase whole current meters and transformer operated meters, when tested with transformers connected, shall not exceed plus 2% or minus 3% for test numbers 5 and 6 given in Table 2.

(4) The maximum error permitted for polyphase transformer operated meters, when tested without transformers connected, shall not exceed plus 1.5% or minus 2.5% for test numbers 5 and 6 given in Table 2.

(5) Where current and voltage transformers, which are intended to be used with meters, are not tested connected to a meter then the total error of the transformers at any load point throughout the rated range shall not exceed 0.5%.

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TABLE 1

<i>Influence Quantities</i>	<i>Reference Value</i>	<i>Tolerance</i>
Ambient temperature	Reference temperature or, if not indicated, 23°C.	± 2°
Meter Position	Vertical	± 3°
Voltage	Reference voltage	± 1.5%
Frequency	Reference frequency 50Hz	± 0.5%
Voltage and current waveform	Sinusoidal form	Distortion factor <5%
External magnetic induction at the reference frequency	Zero	Induction value that does not produce a relative error variation of more than ±0.3%

TABLE 2

<i>Test Number and Load</i>	<i>Power Factor</i>	<i>Test load in terms of marked current</i>				<i>Meter Type</i>	<i>Polyphase Meter Load</i>
		<i>Basic/ Maximum</i>	<i>Maximum continuous</i>	<i>Long Range</i>	<i>Short Range</i>		
1 (high)	1	I _{max}	100%	100%-200% (Note 1)	100%-125% (Note 1)	Single and polyphase	Balanced
2 (intermediate)	1	I _b or 125% I _b	Any load between 25%-75% of the value specified for Test Number 1			Single and polyphase	Balanced
3 (low)	1	5% I _b	1,67% (Note 2)	5%	5%	Single and polyphase	Balanced
4 (inductive)	0.5 (Note 3)	I _b or I _{max}	100%	The same value selected for Test Number 1		Single and polyphase	Balanced
5 (element)	1	I _b	100%	The same value selected for Test Number 1		Polyphase	One phase loaded in turn
6 (inductive)	0.5 (Note 3)	I _b	100%	The same value selected for Test Number 1		Polyphase	One phase loaded in turn

Note 1

Where a range is given, any value within that inclusive range may be selected.

Note 2

For maximum continuously rated prepayment meters, the low load test value may be twice the value shown.

Note 3

For Test Numbers 4 and 6, the inductive power factor shall be between 0.45 and 0.55 inclusive.

SCHEDULE 4

Regulation 2

Prescribed periods of certification

Type	Phase	Wire	Element	Number of Registers	Approval Number	Certification Period in Years
1	2	3	4	5	6	7
ABB						
M81	1	2	1	Single	846	10
T81	3	4	3	Single	845	10
Ampy						
5028	1	2	1	Multi	789	10
5028L	1	2	1	Single	820	10
5054	1	2	2	Multi	824	10
5054C	1	2	2	Multi	814	10
5056	1	2	1	Multi	817	10
5057	*	@	3	Multi	866	10
5071	1	2	1	Multi	853	10
5077	1	2	1	Multi	860	10
Aron						
eI	1	2	1	Single	334	15
eN	1	2	1	Single	465	15
G13	1	3	2	Single	442	15
G13P	1	3	2	Single	442	10
G23	2	3	2	Single	442	15
G23P	2	3	2	Single	442	10
G24	2	4	2	Single	442	15
G24P	2	4	2	Single	442	10
G33	3	3	3	Single	442	15

Note:—

* indicates that the meter is designed for use on a 1, 2 or 3 phase supply

@ indicates that the meter is designed for use on a 3 or 4 wire supply

indicates that the meter is designed for use on a 2, 3 or 4 wire supply

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Type	Phase	Wire	Element	Number of Registers	Approval Number	Certification Period in Years
1	2	3	4	5	6	7
G33P	3	3	2	Single	442	10
G34	3	4	3	Single	442	15
G34P	3	4	3	Single	448	10
GM13	1	3	2	Single	448	15
GM13H		3	2	Single	448	10
GM23	2	3	2	Single	448	15
GM23H		3	2	Single	448	10
GM24	2	4	2	Single	448	15
GM24H		4	2	Single	448	10
GM33	3	3	2	Single	448	15
GM33B		3	2	Single	448	10
GM34	3	4	3	Single	448	15
GM34B		4	3	Single	448	10
GTM13		3	2	Single	448	15
GTM13P		3	2	Single	448	10
GTM23		3	2	Single	448	15
GTM23P		3	2	Single	448	10
GTM24		4	2	Single	448	15
GTM24P		4	2	Single	448	10
GTM33		3	2	Single	448	15
GTM33P		3	2	Single	448	10
GTM34		4	3	Single	448	15
GTM34P		4	3	Single	448	10
CEWE						
2243	3	3	2	Multi	841	10
2343	3	4	3	Multi	839	10
3243	3	3	2	Multi	842	10

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Type	Phase	Wire	Element	Number	Approval	Certification
				of	Number	Period
				Registers		in
						Years
1	2	3	4	5	6	7
3343	3	4	3	Multi	840	10
CE	3	3	2	Single	796	10
CE	3	3	2	Single	791	10
CE	3	4	3	Single	795	10
CE	3	4	3	Single	790	10
Chamberlain & Hookham						
K	1	2	1	Single	338	15
PT2	*	@	2	Single	462	15
PT2D	*	@	2	Single	462	10
PT4	3	4	3	Single	462	20
PT4D	3	4	3	Single	462	10
Dennis Ferranti						
B1V7	1	2	1	Multi	864	10
TM3c	1	2	1	Single	481	20
EE/ GEC						
B31B	1	2	1	Single	358	15
C11B	1	2	1	Single	603	20
C11B-	1	2	1	Single	615	10
D						
C11B-	1	2	1	Single	615	10
D/M						

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Type	Phase	Wire	Element	Number	Approval	Certification
				of	Number	Period
				Registers		in
						Years
1	2	3	4	5	6	7
C11B-1 DR		2	1	Multi	615	10
C11B-1 DR/ M		2	1	Multi	615	10
C11B-1 R		2	1	Multi	613	10
C11B-1 R/M		2	1	Multi	613	20
C11B/1 M		2	1	Single	627	25
C11B21		2	1	Single	628	20
C11B21 D		2	1	Single	637	10
C11B21 DR		2	1	Multi	637	10
C11B21 R		2	1	Multi	628	20
C11B2A		2	1	Single	628	20
C11B2A- R		2	1	Multi	628	15
C11B2C		2	1	Single	632	10
C11B2C- R		2	1	Multi	632	10
C11B31		2	1	Single	847	10
C11B3C		2	1	Single	848	10
C21B 1		2	1	Single	577	20
C21B-1 R		2	1	Multi	585	10
C21B-1 R/M		2	1	Multi	585	15

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Type	Phase	Wire	Element	Number	Approval	Certification
				of	Number	Period
				Registers		in
						Years
1	2	3	4	5	6	7
C21B/1 M		2	1	Single	577	20
C31B	1	2	1	Single	509	20
C31B-1 D		2	1	Single	524	10
C31B-1 D/M		2	1	Single	524	10
C31B-1 DR		2	1	Multi	580	10
C31B-1 DR/ M		2	1	Multi	580	10
C31B-1 R		2	1	Multi	503	15
C31B-1 R/M		2	1	Multi	503	15
C31B/1 M		2	1	Single	509	25
CM1	1	2	1	Multi	764	10
CM2	1	2	1	Multi	783	10
CM4	1	2	1	Multi	793	10
CM5	1	2	1	Multi	794	10
CM6	1	2	1	Multi	812	10
CM7	1	2	1	Multi	813	10
D42B *		@	2	Single	494	15
D42B- D		@	2	Single	510	10

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Type	Phase	Wire	Element	Number	Approval	Certification
				of	Number	Period
				Registers		in
						Years
1	2	3	4	5	6	7
D43B/3 M		4	3	Single	495	15
D43F	3	4	3	Single	548	15
D43F/3 M		4	3	Single	548	15
E42B	*	@	2	Single	590	15
E42B- D	*	@	2	Single	592	10
E42B- D/M	*	@	2	Single	592	10
E42B- DR	*	@	2	Multi	594	10
E42B- DR/ M	*	@	2	Multi	594	10
E42B- R	*	@	2	Multi	594	10
E42B- R/M	*	@	2	Multi	594	10
E42B/ M	*	@	2	Single	590	15

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Type	Phase	Wire	Element	Number of Registers	Approval Number	Certification Period in Years
1	2	3	4	5	6	7
E42F3- R		@	2	Multi	510	10
E42F4 *		@	2	Single	510	15
E42F4- D		@	2	Single	510	10
E42F4- DR		@	2	Multi	510	10
E42F4- R		@	2	Multi	510	10
E43B-3	3	4	3	Single	591	15
E43B-3 D	3	4	3	Single	595	10
E43B-3 D/M	3	4	3	Single	595	15
E43B-3 DR	3	4	3	Multi	595	10
E43B-3 DR/ M	3	4	3	Multi	595	10
E43B-3 R	3	4	3	Multi	595	10
E43B-3 R/M	3	4	3	Multi	595	10
E43B/3 M	3	4	3	Single	591	20

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indicates that the meter is designed for use on a 2, 3 or 4 wire supply

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Type	Phase	Wire	Element	Number	Approval	Certification
				of	Number	Period
				Registers		in
						Years
1	2	3	4	5	6	7
E43B23		4	3	Single	644	15
E43B23 D		4	3	Single	646	10
E43B23 DR		4	3	Multi	646	10
E43B23 R		4	3	Multi	646	10
E43B33		4	3	Single	749	15
E43B33 D		4	3	Single	749	10
E43B33 DR		4	3	Multi	749	10
E43B34 R3		3	Multi	591	10	
E43B43		4	3	Single	749	15
E43B43 D		4	3	Single	749	10
E43B43 DR		4	3	Multi	749	10
E43B43 R		4	3	Multi	591	10
E43C-2D		4	3	Single	617	10
E43C-2D/ M		4	3	Single	617	10
E43C-2DR		4	3	Multi	618	10
E43C-2DR/ M		4	3	Multi	618	10
E43F 3		4	3	Single	621	15
E43F-3 D		4	3	Single	623	10

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Type	Phase	Wire	Element	Number	Approval	Certification							
				of	Number	Period							
				Registers		in							
						Years							
1	2	3	4	5	6	7							
E43F-3 DR		4	3	Multi	623	10							
E43F-3 R		4	3	Multi	623	10							
E43F33		4	3	Single	749	15							
E43F3-3 D		4	3	Single	749	10							
E43F3-3 DR		4	3	Multi	749	10							
E43F3-3 R		4	3	Multi	591	10							
E43F43		4	3	Single	749	15							
E43F4-3 D		4	3	Singl	749	10							
E43F4-3 DR		4	3	Multi	749	10							
E43F4-3 R		4	3	Multi	749	10	EP2	3	3	2	Multi	849	10
EP2	3	3	2	Multi	849	10							
EP2J	3	3	2	Multi	850	10							
EP3	*	#	3	Multi	851	10							
EP3J	*	#	3	Multi	852	10							
HA1	1	2	1	Single	773	10							
HA1	1	2	1	Multi	773	10							
LSA013001		4	3	Single	771	10							
LSA023001		4	3	Single	786	10							

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Type	Phase	Wire	Element	Number	Approval	Certification							
				of	Number	Period							
				Registers	in	Years							
1	2	3	4	5	6	7							
LSA023002	4	3	3	Single	772	10	PM1	1	2	1	Multi	800	10
PM2	3	3	2	Multi	832	10							
PM3	*	#	3	Multi	833	10							
SC2B	1	2	1	Multi	843	10							
TM1	1	2	1	Multi	809	10							
TM2	1	2	2	Multi	810	10							
UVE	1	2	1	Single	310	10							
Ferranti/ FML/ Siemens													
F2K-100	2	1	1	Single	677	20							
F2K-100-2	2	1	1	Multi	681	15							
F2K-100I	2	1	1	Single	688	20							
F2K-100I-2	2	1	1	Multi	688	15							
F2K-100L	2	1	1	Single	685	20							
F2K-100L-2	2	1	1	Multi	685	15							
F2K-111B	2	1	1	Single	703	20							
F2K-111B-2	2	1	1	Multi	713	10							
F2K-500	2	1	1	Single	710	10							
F2K-500C	2	1	1	Single	717	10							
F2K-500C-2	2	1	1	Multi	717	10							
F2K-500C-9	2	1	1	Multi	717	10							
F2K-500D	2	1	1	Multi	736	10							
F2K-500D-2	2	1	1	Multi	743	10							
F2K-500D-9	2	1	1	Multi	743	10							

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Type	Phase	Wire	Element	Number of Registers	Approval Number	Certification Period in Years
1	2	3	4	5	6	7
F3K-1†B-2	@		2	Multi	733	10
F3K-1†BL	@		2	Single	733	15
F3K-1†BL-2	@		2	Multi	733	15
F4K-100	@		2	Single	695	15
F4K-100-2		4	3	Multi	704	10
F4K-100I		4	3	Single	730	15
F4K-100I-2		4	3	Multi	730	10
F4K-100L		4	3	Single	729	15
F4K-100L-2		4	3	Multi	729	10
F4K-100B		4	3	Single	712	15
F4K-100B-2		4	3	Multi	712	10
F4K-100BI		4	3	Single	730	15
F4K-100BI-2		4	3	Multi	730	10
F4K-100BL		4	3	Single	729	15
F4K-100BL-2		4	3	Multi	729	10
F4K-110B		4	3	Single	696	15
F4K-110B-2		4	3	Multi	704	10
F4K-110BI		4	3	Single	730	15
F4K-110BI-2		4	3	Multi	730	10
F4K-110BL		4	3	Single	729	15
F4K-110BL-2		4	3	Multi	729	10
FM	1	2	1	Single	323	15

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Type	Phase	Wire	Element	Number	Approval	Certification
				of	Number	Period
				Registers		in
						Years
1	2	3	4	5	6	7
FMm	1	2	1	Single	342	15
FMMDI		2	1	Single	443	10
FMmMD		2	1	Single	443	10
FMmP1		2	1	Single	364	10
FMmP2		2	1	Single	402	10
FMmX3		4	3	Single	415	15
FMmX T		4	3	Single	415	15
FMmY*		@	2	Single	414	15
FMmYT		@	2	Single	414	15
FMP	1	2	1	Single	350	10
FMP2	1	2	1	Multi	406	10
FMQ	1	2	1	Single	549	20
FMT	1	2	1	Multi	455	10
FMX	3	4	3	Single	415	20
FMXa	3	4	3	Single	488	15
FMXa B		4	3	Multi	518	10
FMX M		4	3	Single	434	10
FMX M R2		4	3	Multi	667	10
FMXT3		4	3	Multi	457	10
FMY *		@	2	Single	414	15
FMYMDR2		@	2	Multi	667	10
FN12	1	2	1	Single	527	20

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Type	Phase	Wire	Element	Number	Approval	Certification
				of	Number	Period
				Registers		in
						Years
1	2	3	4	5	6	7
FN12DI		2	1	Single	553	10
FN12P1		2	1	Single	535	10
FN12PF		2	1	Single	536	10
FN12Q1		2	1	Single	528	20
FN12QD		2	1	Single	579	10
FN12QP		2	1	Single	541	10
FN12QPF		2	1	Single	542	10
FN12R2		2	1	Multi	549	10
FN33 *		@	2	Single	540	15
FN33D'		@	2	Single	666	10
FN33Q'		@	2	Single	540	15
FN33QR2		@	2	Multi	552	10
FN33R2		@	2	Multi	552	10
FN34 3		4	3	Single	538	15
FN34DB		4	3	Single	554	10
FN34DR2		4	3	Multi	666	10
FN34QB		4	3	Single	545	15
FN34QD		4	3	Single	554	10
FN34QR2		4	3	Multi	538	10
FN34R2		4	3	Multi	551	10

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Type	Phase	Wire	Element	Number	Approval	Certification
				of	Number	Period
				Registers		in
						Years
1	2	3	4	5	6	7
FNA33 [*]		@	2	Single	589	15
FNA33D		@	2	Single	560	10
FNA33Q		@	2	Single	589	15
FNA33QR2		@	2	Multi	589	10
FNA33R2		@	2	Multi	589	10
FNA34 [#]	4		3	Single	545	15
FNA34D	4		3	Single	560	10
FNA34Q	4		3	Single	545	20
FNA34QD	4		3	Single	606	10
FNA34QR2	4		3	Multi	551	10
FNA34R2	4		3	Multi	543	10
FNAB33		@	2	Single	656	15
FNAB33D		@	2	Single	659	10
FNAB33Q		@	2	Single	656	15
FNAB33QR2 [@]		@	2	Multi	657	10

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Type	Phase	Wire	Element	Number	Approval	Certification
				of	Number	Period
				Registers		in
						Years
1	2	3	4	5	6	7
FNAB33R2	@		2	Multi	657	10
FNAB34		4	3	Single	652	15
FNAB34D		4	3	Single	659	10
FNAB34Q		4	3	Single	652	20
FNAB34QD		4	3	Single	659	10
FNAB34QR2		4	3	Multi	652	15
FNAB34R2		4	3	Multi	653	10
FNE121		2	1	Single	527	20
FNE12D		2	1	Single	553	10
FNE12P		2	1	Single	535	10
FNE12PF		2	1	Single	536	10
FNE12Q		2	1	Single	528	20
FNE12QD		2	1	Single	579	10
FNE12QP		2	1	Single	541	10
FNE12QPF		2	1	Single	542	10
FNE12QR2		2	1	Multi	550	10
FNE12R2		2	1	Multi	550	10
FNE33*	@		2	Single	540	15
FNE33D	@		2	Single	554	10
FNE33Q	@		2	Single	540	15
FNE33QD	@		2	Single	554	10

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Type	Phase	Wire	Element	Number	Approval	Certification
				of	Number	Period
				Registers		in
						Years
1	2	3	4	5	6	7
FNEA34QD	4		3	Single	560	10
FNEA34QR2	4		3	Multi	551	10
FNEA34R2	4		3	Multi	551	10
FNN2	1	2	1	Single	574	20
FNN2Q		2	1	Single	574	25
FNN2QC		2	1	Single	689	20
FNN2QD		2	1	Single	626	10
FPQ-102		2	1	Single	639	10
S2A-100		2	1	Single	862	10
S2A-200		2	1	Multi	870	10
S2S-500A1		2	1	Single	754	10
S2S-500A2		2	1	Single	754	10
S2S-600A		2	1	Multi	762	10
S2S-601A		2	1	Multi	827	10
S2S-700A		2	1	Multi	758	10
S2S-720A		2	1	Multi	856	10
S2S-730A		2	2	Multi	857	10
S4S-100RP	4		3	Multi	805	10
S4S-11BP	4		3	Multi	787	10
S4S-11BRP	4		3	Multi	787	10
Ganz						
GE24	1	2	1	Single	760	10
GH42	3	4	3	Single	761	10
Horstmann						
NU	1	2	1	Multi	836	10
076						

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Type	Phase	Wire	Element	Number of Registers	Approval Number	Certification Period in Years
1	2	3	4	5	6	7
NU 076 2	1	2	2	Multi	837	10
NU0701		2	1	Multi	803	10
NU0701 2		2	2	Multi	803	10
Iskra						
E89E2 1		2	1	Single	766	10
E89ED2		2	1	Multi	767	10
E96E2 1		2	1	Single	808	10
T31AT3		4	3	Single	769	10
T31ATD2		4	3	Multi	770	10
T37E23		4	3	Single	780	10
Landis & Gyr						
CF6 1	1	2	1	Single	511	15
CH1 1	1	2	1	Single	466	20
CH1d 1	1	2	1	Multi	466	10
CL1271		2	1	Single	675	20
CL127D		2	1	Multi	675	10
CL1471		2	1	Single	686	20
CL147d		2	1	Multi	687	15
CL17 1	1	2	1	Single	508	20
CL17d1		2	1	Multi	508	10
CL27 1	1	2	1	Single	533	25
CL27.1l		2	1	Single	575	25
CL27.1d		2	1	Multi	575	10
CL27.2l		2	1	Single	614	25

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Type	Phase	Wire	Element	Number of Registers	Approval Number	Certification Period in Years
1	2	3	4	5	6	7
CL27.2d		2	1	Multi	614	20
CL27d1		2	1	Multi	533	20
CL28	1	2	1	Single	546	20
CL28d1		2	1	Multi	546	10
CL7	1	2	1	Single	463	25
CL7d	1	2	1	Multi	463	15
CM147		2	1	Single	735	20
CM147d		2	1	Multi	735	10
CM147dk10		2	1	Multi	737	10
CM147k10		2	1	Single	737	10
DF3*	@	2	Single	475	15	
DF34	*	@	2	Single	515	15
DF34d*		@	2	Multi	515	10
DF3d	*	@	2	Multi	475	10
FF10	3	3	2	Single	811	10
FF34	*	@	2	Single	515	15
HF3	*	@	2	Single	475	15
HF34	*	@	2	Single	515	10

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Type	Phase	Wire	Element	Number of Registers	Approval of Number	Certification Period in Years
1	2	3	4	5	6	7
HF34d*		@	2	Single	515	10
HF3d *		@	2	Multi	441	10
MF10	3	4	3	Single	811	10
MF3	3	4	3	Single	425	15
MF34	3	4	3	Single	515	15
MF34d	3	4	3	Multi	516	10
MF3d	3	4	3	Multi	425	15
MH1	3	4	3	Single	479	10
MH1d	3	4	3	Multi	479	10
ML240		4	3	Multi	831	10
ML240d		4	3	Multi	831	10
VL11 *		@	2	Single	588	15
VL11.5		@	2	Single	588	15
VL11.5d		@	2	Multi	588	10
VL11101		3	2	Single	811	10
VL11d*		@	2	Multi	588	10
VL122*		@	2	Single	654	10
VL122d		@	2	Multi	654	10

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Type	Phase	Wire	Element	Number of Registers	Approval Number	Certification Period in Years
1	2	3	4	5	6	7
VL123*		@	2	Single	654	10
VL123d		@	2	Multi	654	10
VL124*		@	2	Single	654	15
VL124d		@	2	Multi	654	10
VL125*		@	2	Single	654	15
VL125d		@	2	Multi	654	10
YL1	3	4	3	Single	525	15
YL11	3	4	3	Single	531	20
YL11101		4	3	Single	811	10
YL11d3		4	3	Multi	532	15
YL1203		4	3	Single	654	15
YL120d		4	3	Multi	654	10
YL1213		4	3	Single	654	15
YL121d		4	3	Multi	654	15
YL1d	3	4	3	Multi	525	10
ZCA405		2	1	Single	799	10
ZCB120		2	1	Single	757	10
ZCB120d		2	1	Multi	757	10
ZCB127		2	1	Multi	781	10

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Type	Phase	Wire	Element	Number	Approval	Certification
				of	Number	Period
				Registers		in
						Years
1	2	3	4	5	6	7
ZCB127		2	1	Multi	782	10
ZCB220K		2	1	Single	822	10
ZFA403		3	2	Single	797	10
ZMA405		4	3	Single	798	10
ZMB127		#	3	Single	788	10
ZMB127d		#	3	Multi	788	10
Met Vick & AEI						
NF5	1	2	1	Single	409	20
NQ	1	2	1	Single	493	20
NQ/ M	1	2	1	Single	530	20
PRI/ SIFAM						
CALMB C3D		4	3	Multi	750	10
CALMB C3D +		4	3	Multi	854	10
CALMU C3T		#	3	Multi	751	10
CALMU C3T +		#	3	Multi	834	10

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Type	Phase	Wire	Element	Number	Approval	Certification
				of	Number	Period
				Registers		in
						Years
1	2	3	4	5	6	7
CALMB C3TV		3	2	Multi	752	10
CALMB C3V +		3	2	Multi	835	10
Sangamo/ Schlumberger						
CBA 00	1	2	1	Single	747	10
CBA 02	1	2	1	Multi	747	10
FX2211		2	1	Single	757	10
H10	1	2	1	Single	806	10
HMT	1	2	1	Single	346	15
KBA 00	1	2	1	Single	745	10
KBA 01	1	2	1	Multi	745	10
KBB	1	2	1	Single	816	10
KBC	1	2	1	Single	863	10
KXB	1	2	1	Multi	861	10
MBA	3	4	3	Multi	838	10
MTA	1	2	1	Multi	774	10
MTN	1	2	1	Multi	804	10
P5A	*	@	2	Multi	869	10
P5A	*	@	3	Multi	868	10

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Type	Phase	Wire	Element	Number of Registers	Approval Number	Certification Period in Years
1	2	3	4	5	6	7
P6A	*	@	3	Multi	867	10
PPA-1	3	4	3	Multi	763	10
PPA-2	3	4	3	Multi	765	10
PPB	*	@	3	Multi	858	10
PXA	3	3	2	Multi	802	10
PXA	3	4	3	Multi	779	10
S200.13	#	2	1	Single	454	20
S200.16	#	2	1	Single	482	25
S200.28	#	2	1	Single	572	20
S200.30	#	2	1	Single	557	20
S200.31	#	2	1	Single	683	25
S200.32	#	2	1	Single	582	25
S200.33	#	2	1	Single	583	20
S200.38	#	2	1	Single	573	25
S200.41	#	2	1	Single	436	20
S200.71	#	2	1	Single	436	20
S203.13	#	4	3	Single	519	15
S204.71	#	2	1	Multi	496	15
S206.16	#	2	1	Single	492	10
S206.71	#	2	1	Single	492	10
S207.21	#	2	1	Single	514	10
S207.41	#	2	1	Single	514	10
S210	1	2	1	Single	844	10

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Type	Phase	Wire	Element	Number	Approval	Certification	
				of	Number	Period	
				Registers		in	
						Years	
1	2	3	4	5	6	7	
S29.12*		@	2	Single	450	15	
S29.133			4	3	Single	451	15
S29.14*		@	2	Single	450	15	
S29.15*		@	2	Single	450	15	
S29.2 *		@	2	Single	353	15	
S29.3	3		4	3	Single	354	15
S300.1*		@	2	Single	587	15	
S300.3*		@	2	Single	640	15	
S301.13			4	3	Single	563	15
S301.63			4	3	Single	563	20
S301.93			4	3	Single	641	15
S304	1		2	1	Single	561	10
S304.11			2	1	Single	561	10
S304.10			2	1	Single	612	10
S304.11			2	1	Single	612	10
S304.21			2	1	Single	561	10
S304.41			2	1	Single	561	10
S304.51			2	1	Single	561	10
S304.50			2	1	Single	680	10

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Type	Phase	Wire	Element	Number	Approval	Certification
				of	Number	Period
				Registers		in
						Years
1	2	3	4	5	6	7
S304.51		2	1	Single	699	10
S304.60		2	1	Single	714	10
S304.61		2	1	Single	714	10
S304.91		2	1	Single	567	10
S309.11		2	1	Multi	568	15
S309.21		2	1	Multi	584	20
S309.31		2	1	Multi	584	20
S309.51		2	1	Multi	721	20
S320.13		4	3	Single	670	15
S320.13		4	3	Multi	670	10
S320.43		4	3	Single	671	15
S320.73		4	3	Single	674	15
S320.73		4	3	Multi	674	10
S320.75	@		2	Multi	679	10
S321.13		4	3	Single	586	15
S321.63		4	3	Single	586	20
S321.93		4	3	Single	642	15
S322.13		4	3	Single	663	10
S322.13		4	3	Single	664	10
S322.63		4	3	Single	633	10
S322.93		4	3	Single	633	10
S323.13		4	3	Multi	607	10
S323.13		4	3	Multi	660	10
S323.63		4	3	Multi	607	10
S323.93		4	3	Multi	665	10

Note:—

* indicates that the meter is designed for use on a 1, 2 or 3 phase supply

@ indicates that the meter is designed for use on a 3 or 4 wire supply

indicates that the meter is designed for use on a 2, 3 or 4 wire supply

(1)
(1)

Type	Phase	Wire	Element	Number	Approval	Certification	
				of	Number	Period	
				Registers		in	
						Years	
1	2	3	4	5	6	7	
S325.3*		@	2	Single	643	15	
S326.1*		@	2	Single	634	10	
S326.6*		@	2	Single	665	10	
S326.9*		@	2	Single	669	10	
S327.3*		@	2	Multi	661	10	
S327.6*		@	2	Multi	662	10	
S330.13			4	3	Multi	691	10
SBB	1	2	1	Single	823	10	
SPA01	1	2	1	Single	728	10	
SPA02	1	2	1	Multi	728	10	
SPA03	1	2	1	Multi	731	10	
SPA11	1	2	1	Single	728	10	
SPA13	1	2	1	Multi	731	10	
SPB	1	2	1	Single	855	10	
SPC	1	2	1	Multi	865	10	
SPX	1	2	1	Single	821	10	
ST-Q220	3	4	3	Multi	775	10	
ST-Q230	3	4	3	Multi	792	10	

Note:—

* indicates that the meter is designed for use on a 1, 2 or 3 phase supply

@ indicates that the meter is designed for use on a 3 or 4 wire supply

indicates that the meter is designed for use on a 2, 3 or 4 wire supply

- (1)
- (1)
- (1)
- (1)
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- (1)

Status: This is the original version (as it was originally made). Northern Ireland Statutory Rules are not carried in their revised form on this site.

Type	Phase	Wire	Element	Number	Approval	Certification
				of	Number	Period
				Registers		in
						Years
1	2	3	4	5	6	7
TRA	1	2	2	Multi	768	10
TRX	1	2	2	Multi	825	10
Smith						
AM	1	2	1	Single	348	15
APJ	1	2	1	Single	611	10
APM	1	2	1	Single	361	10
APNE	1	2	1	Single	564	10
APNEQ		2	1	Single	564	10
APQ	1	2	1	Single	611	10
Jugmera						
EE	1	2	1	Single	859	10
3000						
N						

Note:—

- * indicates that the meter is designed for use on a 1, 2 or 3 phase supply
- @ indicates that the meter is designed for use on a 3 or 4 wire supply
- # indicates that the meter is designed for use on a 2, 3 or 4 wire supply

EXPLANATORY NOTE

(This note is not part of the Regulations.)

These Regulations set out the procedure for enabling meters, other than meters deemed to be certified under the Measuring Instruments (EC Requirements) (Electrical Energy Meters) Regulations 1995, S.I. 1995/2607, used for the purpose of measuring the quantity of electricity supplied to customers to be certified and provide for the circumstances in which certification and deemed certification are terminated.

Regulations 1 and 2 provide for the citation, commencement and interpretation of the Regulations. Regulations 3 and 4 (which introduce Schedule 1) set out the procedure for persons who manufacture or repair meters to be authorised by the Director General of Electricity Supply for Northern Ireland (“the Director”) in relation to the certification procedure, the conditions imposed on an authorisation and the circumstances in which it can be revoked. Regulation 5 provides for persons nominated

by public electricity suppliers, authorised manufacturers or authorised repairers to be authorised as examiners by the Director for certification purposes, the conditions imposed on an authorisation and the circumstances in which it can be revoked.

Regulation 6 (which introduces Schedule 2) sets out the procedure to be followed when applying for a meter to be certified. Regulation 7 (which introduces Schedule 3) sets out the procedure for certification of individual meters. Regulation 8 specifies the equivalent European provisions testing in accordance with which may be relied upon as an alternative to the tests and testing methods described in Schedules 1 and 3. Regulation 9 sets out the procedure for batch certification.

Regulation 10 provides for the circumstances in which a meter shall cease to be certified. Regulation 11 provides for fees in respect of the submission of meters to meter examiners for certification and in respect of authorised examiners' authorisations.

These Regulations were notified in draft to the European Commission in accordance with Council Directive [83/189/EEC](#) (O.J. No. L109, 26.4.83, p. 8) (as amended by Council Directive [88/182/EEC](#) (O.J. No. L81, 26.3.88, p. 75) and Council Directive [94/10/EC](#) (O.J. No. L100, 19.4.94, p. 100)).

In Great Britain the corresponding Regulations are the Meters (Certification) Regulations 1998(**13**). The Director General of Electricity Supply has prepared a compliance cost assessment in relation to those Regulations and a copy of that assessment together with the Northern Ireland Supplement prepared by the Director General of Electricity Supply for Northern Ireland are held at OFREG, Brookmount Buildings, 42 Fountain Street, Belfast BT1 5EE, from where copies may be obtained on request.

Copies of the European Standards EN ISO 9001 (referred to in regulation 3), EN ISO 9002 (referred to in regulation 4), EN 45001 and EN 61036 (referred to in regulation 8) and Harmonisation Documents 553 S1 and 554 S1 (referred to in paragraph 5 of Schedule 2) may be obtained by post from the British Standards Institution at: 389 Chiswick High Road, London W4 4AL.

Attention is drawn to the provisions of the Measuring Instruments (EC Requirements) (Electrical Energy Meters) Regulations 1995, the effect of which is to ensure that, for the purposes of Schedule 7 to the Electricity (Northern Ireland) Order 1992, instruments bearing the mark of EC initial verification are treated in the same way as instruments certified under these Regulations.