

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—

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

where:

$V$  = declared system voltage

$I$  = total current of all phases

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$k$  = 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) (3) (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.

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- (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.

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## Multi-register meters

### 7. Induction meters

- (a) 7. (1) (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) (2) (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%.

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### 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 <sub>max</sub>	100%	100%-200% (Note 1)	100%-125% (Note 1)	Single and polyphase	Balanced
2 (intermediate)	1	I <sub>b</sub> or 125% I <sub>b</sub>	Any load between 25%-75% of the value specified for Test Number 1			Single and polyphase	Balanced
3 (low)	1	5% I <sub>b</sub>	1,67% (Note 2)	5%	5%	Single and polyphase	Balanced
4 (inductive)	0.5 (Note 3)	I <sub>b</sub> or I <sub>max</sub>	100%	The same value selected for Test Number 1		Single and polyphase	Balanced
5 (element)	1	I <sub>b</sub>	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.			

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<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(1) and 554 S1(2) 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.

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(1) 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

(2) 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

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## 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**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:

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

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 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—

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

where:



$V$  = declared system voltage

$I$  = total current of all phases

$k$  = number of pulses 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*

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- (a) (4) (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) 7. (1) (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) (2) (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.

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(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%.

**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 <sub>max</sub>	100%	100%-200% (Note 1)	100%-125% (Note 1)	Single and polyphase	Balanced
2 (intermediate)	1	I <sub>b</sub> or 125% I <sub>b</sub>	Any load between 25%-75% of the value specified for Test Number 1			Single and polyphase	Balanced
3 (low)	1	5% I <sub>b</sub>	1,67% (Note 2)	5%	5%	Single and polyphase	Balanced
4 (inductive)	0.5 (Note 3)	I <sub>b</sub> or I <sub>max</sub>	100%	The same value selected for Test Number 1		Single and polyphase	Balanced
5 (element)	1	I <sub>b</sub>	100%	The same value selected for Test Number 1		Polyphase	One phase loaded in turn
6 (inductive)	0.5 (Note 3)	I <sub>b</sub>	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.

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## SCHEDULE 4

Regulation 2

**Prescribed periods of certification**

<i>Type</i>	<i>Phase</i>	<i>Wire</i>	<i>Element</i>	<i>Number of Registers</i>	<i>Approval Number</i>	<i>Certification Period in Years</i>
1	2	3	4	5	6	7
<b>ABB</b>						
M81	1	2	1	Single	846	10
T81	3	4	3	Single	845	10
<b>Ampy</b>						
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
<b>Aron</b>						
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
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

Note:—

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<i>Type</i>	<i>Phase</i>	<i>Wire</i>	<i>Element</i>	<i>Number of Registers</i>	<i>Approval Number</i>	<i>Certification Period in Years</i>
1	2	3	4	5	6	7
GM13P	1	3	2	Single	448	10
GM23	2	3	2	Single	448	15
GM23P	2	3	2	Single	448	10
GM24	2	4	2	Single	448	15
GM24P	2	4	2	Single	448	10
GM33	3	3	2	Single	448	15
GM33P	3	3	2	Single	448	10
GM34	3	4	3	Single	448	15
GM34P	3	4	3	Single	448	10
GTM13	1	3	2	Single	448	15
GTM13P	1	3	2	Single	448	10
GTM23	2	3	2	Single	448	15
GTM23P	2	3	2	Single	448	10
GTM24	2	4	2	Single	448	15
GTM24P	2	4	2	Single	448	10
GTM33	3	3	2	Single	448	15
GTM33P	3	3	2	Single	448	10
GTM34	3	4	3	Single	448	15
GTM34P	3	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
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

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1	2	3	4	5	6	7
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-D	1	2	1	Single	615	10
C11B-D/M	1	2	1	Single	615	10
C11B-DR	1	2	1	Multi	615	10
C11B-DR/M	1	2	1	Multi	615	10
C11B-R	1	2	1	Multi	613	10
C11B-R/M	1	2	1	Multi	613	20
C11B/M	1	2	1	Single	627	25
C11B2	1	2	1	Single	628	20
C11B2-D	1	2	1	Single	637	10
C11B2-DR	1	2	1	Multi	637	10
C11B2-R	1	2	1	Multi	628	20
C11B2A	1	2	1	Single	628	20
C11B2A-R	1	2	1	Multi	628	15
C11B2C	1	2	1	Single	632	10
C11B2C-R	1	2	1	Multi	632	10

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1	2	3	4	5	6	7
C11B3	1	2	1	Single	847	10
C11B3C	1	2	1	Single	848	10
C21B	1	2	1	Single	577	20
C21B-R	1	2	1	Multi	585	10
C21B-R/M	1	2	1	Multi	585	15
C21B/M	1	2	1	Single	577	20
C31B	1	2	1	Single	509	20
C31B-D	1	2	1	Single	524	10
C31B-D/M	1	2	1	Single	524	10
C31B-DR	1	2	1	Multi	580	10
C31B-DR/ M	1	2	1	Multi	580	10
C31B-R	1	2	1	Multi	503	15
C31B-R/M	1	2	1	Multi	503	15
C31B/M	1	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
D42B-D/M	*	@	2	Single	510	10
D42B-DR	*	@	2	Multi	510	10
D42B-DR/ M	*	@	2	Multi	510	10
D42B-R	*	@	2	Multi	507	10
D42B-R/M	*	@	2	Multi	507	10

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1	2	3	4	5	6	7
D42B/M	*	@	2	Single	494	15
D42BC	*	@	2	Single	570	15
D42BC-D	*	@	2	Single	570	10
D42BC-D/ M	*	@	2	Single	570	10
D42BC/M	*	@	2	Single	570	15
D42F	*	@	2	Single	497	15
D42F-D	*	@	2	Single	510	10
D42F-D/M	*	@	2	Single	510	10
D42F-DR	*	@	2	Multi	510	10
D42F-DR/ M	*	@	2	Multi	510	10
D42F-R	*	@	2	Multi	507	10
D42F-R/M	*	@	2	Multi	507	10
D42F/M	*	@	2	Single	497	15
D43B	3	4	3	Single	495	15
D43B-R	3	4	3	Multi	495	10
D43B-R/M	3	4	3	Multi	495	10
D43B/M	3	4	3	Single	495	15
D43F	3	4	3	Single	548	15
D43F/M	3	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

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1	2	3	4	5	6	7
E42B-R/M	*	@	2	Multi	594	10
E42B/M	*	@	2	Single	590	15
E42B2	*	@	2	Single	645	15
E42B2-D	*	@	2	Single	649	10
E42B2-DR	*	@	2	Multi	651	10
E42B2-R	*	@	2	Multi	647	10
E42B3	*	@	2	Single	510	15
E42B3-D	*	@	2	Multi	510	10
E42B3-DR	*	@	2	Single	510	10
E42B3-R	*	@	2	Multi	510	10
E42B4	*	@	2	Single	510	15
E42B4-D	*	@	2	Single	510	15
E42B4-DR	*	@	2	Multi	510	10
E42B4-R	*	@	2	Multi	510	10
E42BC	*	@	2	Single	597	15
E42BC-D	*	@	2	Single	600	10
E42BC-D/ M	*	@	2	Single	600	10
E4BC/M	*	@	2	Single	597	10
E42C-2D	*	@	2	Single	619	10
E42C-2D/M	*	@	2	Single	619	10
E42C-2DR	*	@	2	Multi	620	10
E42C-2DR/ M	*	@	2	Multi	620	10
E42F	*	@	2	Single	602	15
E42F-D	*	@	2	Single	622	10
E42F-D/M	*	@	2	Single	622	10
E42F-DR	*	@	2	Multi	623	10

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1	2	3	4	5	6	7
E42F-DR/M	*	@	2	Multi	623	10
E42F-R	*	@	2	Multi	623	10
E42F-R/M	*	@	2	Multi	623	10
E42F3	*	@	2	Single	510	15
E42F3-D	*	@	2	Single	510	10
E42F3-DR	*	@	2	Multi	510	10
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	4	3	Single	591	15
E43B-D	3	4	3	Single	595	10
E43B-D/M	3	4	3	Single	595	15
E43B-DR	3	4	3	Multi	595	10
E43B-DR/ M	3	4	3	Multi	595	10
E43B-R	3	4	3	Multi	595	10
E43B-R/M	3	4	3	Multi	595	10
E43B/M	3	4	3	Single	591	20
E43B2	3	4	3	Single	644	15
E43B2-D	3	4	3	Single	646	10
E43B2-DR	3	4	3	Multi	646	10
E43B2-R	3	4	3	Multi	646	10
E43B3	3	4	3	Single	749	15
E43B3-D	3	4	3	Single	749	10
E43B3-DR	3	4	3	Multi	749	10
E43B3-R3	4	3	Multi	591	10	

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1	2	3	4	5	6	7
E43B4	3	4	3	Single	749	15
E43B4-D	3	4	3	Single	749	10
E43B4-DR	3	4	3	Multi	749	10
E43B4-R	3	4	3	Multi	591	10
E43C-2D	3	4	3	Single	617	10
E43C-2D/M	3	4	3	Single	617	10
E43C-2DR	3	4	3	Multi	618	10
E43C-2DR/ M	3	4	3	Multi	618	10
E43F	3	4	3	Single	621	15
E43F-D	3	4	3	Single	623	10
E43F-DR	3	4	3	Multi	623	10
E43F-R	3	4	3	Multi	623	10
E43F3	3	4	3	Single	749	15
E43F3-D	3	4	3	Single	749	10
E43F3-DR	3	4	3	Multi	749	10
E43F3-R	3	4	3	Multi	591	10
E43F4	3	4	3	Single	749	15
E43F4-D	3	4	3	Singl	749	10
E43F4-DR	3	4	3	Multi	749	10
E43F4-R	3	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
LSA01-001	3	4	3	Single	771	10

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1	2	3	4	5	6	7
LSA02-001	3	4	3	Single	786	10
LSA02-002	3	4	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	1	2	1	Single	677	20
F2K-100-2	1	2	1	Multi	681	15
F2K-100I	1	2	1	Single	688	20
F2K-100I-2	1	2	1	Multi	688	15
F2K-100L	1	2	1	Single	685	20
F2K-100L-2	1	2	1	Multi	685	15
F2K-11B	1	2	1	Single	703	20
F2K-11B-2	1	2	1	Multi	713	10
F2K-500	1	2	1	Single	710	10
F2K-500C	1	2	1	Single	717	10
F2K-500C-2	1	2	1	Multi	717	10
F2K-500C-9	1	2	1	Multi	717	10
F2K-500D	1	2	1	Multi	736	10
F2K-500D-2	1	2	1	Multi	743	10
F2K-500D-9	1	2	1	Multi	743	10
F2K-50B	1	2	1	Single	702	10
F2Q-100	1	2	1	Single	630	20

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1	2	3	4	5	6	7
F2Q-10D	1	2	1	Single	672	10
F2Q-10W	1	2	1	Multi	668	10
F2Q-11B	1	2	1	Single	638	20
F2Q-11D	1	2	1	Single	673	10
F3K-100	*	@	2	Single	705	15
F3K-100-2	*	@	2	Multi	705	10
F3K100I	*	@	2	Single	730	15
F3K-100I-2	*	@	2	Multi	730	10
F3K-100L	*	@	2	Single	705	15
F3K-100L-2	*	@	2	Multi	729	10
F3K-10B	*	@	2	Single	734	15
F3K-10B-2	*	@	2	Multi	734	10
F3K-11B	*	@	2	Single	733	15
F3K-11B-2	*	@	2	Multi	733	10
F3K-11BL	*	@	2	Single	733	15
F3K-11BL-2	*	@	2	Multi	733	15
F4K-100	*	@	2	Single	695	15
F4K-100-2	3	4	3	Multi	704	10
F4K-100I	3	4	3	Single	730	15
F4K-100I-2	3	4	3	Multi	730	10
F4K-100L	3	4	3	Single	729	15
F4K-100L-2	3	4	3	Multi	729	10
F4K-10B	3	4	3	Single	712	15
F4K-10B-2	3	4	3	Multi	712	10
F4K-10BI	3	4	3	Single	730	15
F4K-10BI-2	3	4	3	Multi	730	10
F4K-10BL	3	4	3	Single	729	15
F4K-10BL-2	3	4	3	Multi	729	10

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1	2	3	4	5	6	7
F4K-11B	3	4	3	Single	696	15
F4K-11B-2	3	4	3	Multi	704	10
F4K-11BI	3	4	3	Single	730	15
F4K-11BI-2	3	4	3	Multi	730	10
F4K-11BL	3	4	3	Single	729	15
F4K-11BL-2	3	4	3	Multi	729	10
FM	1	2	1	Single	323	15
FMm	1	2	1	Single	342	15
FMMD	1	2	1	Single	443	10
FMmMD	1	2	1	Single	443	10
FMmP	1	2	1	Single	364	10
FMmP2	1	2	1	Single	402	10
FMmX	3	4	3	Single	415	15
FMmXT	3	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
FMXaT	3	4	3	Multi	518	10
FMXMD	3	4	3	Single	434	10
FMXMDR2	3	4	3	Multi	667	10
FMXT	3	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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1	2	3	4	5	6	7
FN12D	1	2	1	Single	553	10
FN12P	1	2	1	Single	535	10
FN12PF	1	2	1	Single	536	10
FN12Q	1	2	1	Single	528	20
FN12QD	1	2	1	Single	579	10
FN12QP	1	2	1	Single	541	10
FN12QPF	1	2	1	Single	542	10
FN12R2	1	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
FN34D	3	4	3	Single	554	10
FN34DR2	3	4	3	Multi	666	10
FN34Q	3	4	3	Single	545	15
FN34QD	3	4	3	Single	554	10
FN34QR2	3	4	3	Multi	538	10
FN34R2	3	4	3	Multi	551	10
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	3	4	3	Single	545	15
FNA34D	3	4	3	Single	560	10
FNA34Q	3	4	3	Single	545	20

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1	2	3	4	5	6	7
FNA34QD	3	4	3	Single	606	10
FNA34QR2	3	4	3	Multi	551	10
FNA34R2	3	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
FNAB33R2	*	@	2	Multi	657	10
FNAB34	3	4	3	Single	652	15
FNAB34D	3	4	3	Single	659	10
FNAB34Q	3	4	3	Single	652	20
FNAB34QD	3	4	3Single	659	10	
FNAB34QR2	3	4	3	Multi	652	15
FNAB34R2	3	4	3	Multi	653	10
FNE12	1	2	1	Single	527	20
FNE12D	1	2	1	Single	553	10
FNE12P	1	2	1	Single	535	10
FNE12PF	1	2	1	Single	536	10
FNE12Q	1	2	1	Single	528	20
FNE12QD	1	2	1	Single	579	10
FNE12QP	1	2	1	Single	541	10
FNE12QPF	1	2	1	Single	542	10
FNE12QR2	1	2	1	Multi	550	10
FNE12R2	1	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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1	2	3	4	5	6	7
FNE33QR2	*	@	2	Multi	552	10
FNE33R2	*	@	2	Multi	552	10
FNE34	3	4	3	Single	538	15
FNE34D	3	4	3	Single	554	10
FNE34Q	3	4	3	Single	545	15
FNE34QD	3	4	3	Single	554	10
FNE34QR2	3	4	3	Multi	551	10
FNE34R2	3	4	3	Multi	551	10
FNEA33	*	@	2	Single	543	15
FNEA33D	*	@	2	Single	560	10
FNEA33Q	*	@	2	Single	543	15
FNEA33QD	*	@	2	Single	560	10
FNEA33QR2	*	@	2	Multi	589	10
FNEA33R2	*	@	2	Multi	589	10
FNEA34	3	4	3	Single	543	15
FNEA34D	3	4	3	Single	560	10
FNEA34Q	3	4	3	Single	545	15
FNEA34QD	3	4	3	Single	560	10
FNEA34QR2	3	4	3	Multi	551	10
FNEA34R2	3	4	3	Multi	551	10
FNN2	1	2	1	Single	574	20
FNN2Q	1	2	1	Single	574	25
FNN2QC	1	2	1	Single	689	20
FNN2QD	1	2	1	Single	626	10
FPQ-102	1	2	1	Single	639	10
S2A-100	1	2	1	Single	862	10
S2A-200	1	2	1	Multi	870	10
S2S-500A1	1	2	1	Single	754	10

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1	2	3	4	5	6	7
S2S-500A2	1	2	1	Single	754	10
S2S-600A	1	2	1	Multi	762	10
S2S-601A	1	2	1	Multi	827	10
S2S-700A	1	2	1	Multi	758	10
S2S-720A	1	2	1	Multi	856	10
S2S-730A	1	2	2	Multi	857	10
S4S-100RP	3	4	3	Multi	805	10
S4S-11BP	3	4	3	Multi	787	10
S4S-11BRP	3	4	3	Multi	787	10
Ganz						
GE24	1	2	1	Single	760	10
GH42	3	4	3	Single	761	10
Horstmann						
NU 076	1	2	1	Multi	836	10
NU 076 2	1	2	2	Multi	837	10
NU070	1	2	1	Multi	803	10
NU070 2	1	2	2	Multi	803	10
Iskra						
E89E2	1	2	1	Single	766	10
E89ED2	1	2	1	Multi	767	10
E96E2	1	2	1	Single	808	10
T31AT2	3	4	3	Single	769	10
T31ATD2	3	4	3	Multi	770	10
T37E2	3	4	3	Single	780	10
Landis & Gyr						
CF6	1	2	1	Single	511	15
CH1	1	2	1	Single	466	20
CH1d	1	2	1	Multi	466	10

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1	2	3	4	5	6	7
CL127	1	2	1	Single	675	20
CL127D	1	2	1	Multi	675	10
CL147	1	2	1	Single	686	20
CL147d	1	2	1	Multi	687	15
CL17	1	2	1	Single	508	20
CL17d	1	2	1	Multi	508	10
CL27	1	2	1	Single	533	25
CL27.1	1	2	1	Single	575	25
CL27.1d	1	2	1	Multi	575	10
CL27.2	1	2	1	Single	614	25
CL27.2d	1	2	1	Multi	614	20
CL27d	1	2	1	Multi	533	20
CL28	1	2	1	Single	546	20
CL28d	1	2	1	Multi	546	10
CL7	1	2	1	Single	463	25
CL7d	1	2	1	Multi	463	15
CM147	1	2	1	Single	735	20
CM147d	1	2	1	Multi	735	10
CM147dk10	1	2	1	Multi	737	10
CM147k10	1	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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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	3	4	3	Multi	831	10
ML240xtf3	3	4	3	Multi	831	10
VL11	*	@	2	Single	588	15
VL11.5	*	@	2	Single	588	15
VL11.5d	*	@	2	Multi	588	10
VL11101	3	3	2	Single	811	10
VL11d	*	@	2	Multi	588	10
VL122	*	@	2	Single	654	10
VL122d	*	@	2	Multi	654	10
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	3	4	3	Single	811	10
YL11d	3	4	3	Multi	532	15

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1	2	3	4	5	6	7
YL120	3	4	3	Single	654	15
YL120d	3	4	3	Multi	654	10
YL121	3	4	3	Single	654	15
YL121d	3	4	3	Multi	654	15
YL1d	3	4	3	Multi	525	10
ZCA405	1	2	1	Single	799	10
ZCB120	1	2	1	Single	757	10
ZCB120d	1	2	1	Multi	757	10
ZCB127	1	2	1	Multi	781	10
ZCB127	1	2	1	Multi	782	10
ZCB220K	1	2	1	Single	822	10
ZFA405	3	3	2	Single	797	10
ZMA405	3	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						
CALMU C3D	3	4	3	Multi	750	10
CALMU C3D+	3	4	3	Multi	854	10
CALMU C3T	*	#	3	Multi	751	10
CALMU C3T+	*	#	3	Multi	834	10
CALMU C3TV	3	3	2	Multi	752	10

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1	2	3	4	5	6	7
CALMU C3V+	3	3	2	Multi	835	10
Sangamo/ Schlumberger						
CBA 00	1	2	1	Single	747	10
CBA 02	1	2	1	Multi	747	10
FX221	1	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
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	1	2	1	Single	454	20
S200.16	1	2	1	Single	482	25
S200.28	1	2	1	Single	572	20
S200.30	1	2	1	Single	557	20

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1	2	3	4	5	6	7
S200.31	1	2	1	Single	683	25
S200.32	1	2	1	Single	582	25
S200.33	1	2	1	Single	583	20
S200.38	1	2	1	Single	573	25
S200.4	1	2	1	Single	436	20
S200.7	1	2	1	Single	436	20
S203.1	3	4	3	Single	519	15
S204.7	1	2	1	Multi	496	15
S206.16	1	2	1	Single	492	10
S206.7	1	2	1	Single	492	10
S207.2	1	2	1	Single	514	10
S207.4	1	2	1	Single	514	10
S210	1	2	1	Single	844	10
S29.12	*	@	2	Single	450	15
S29.13	3	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
S301.1	3	4	3	Single	563	15
S301.6	3	4	3	Single	563	20
S301.9	3	4	3	Single	641	15
S304	1	2	1	Single	561	10
S304.1	1	2	1	Single	561	10
S304.10	1	2	1	Single	612	10
S304.11	1	2	1	Single	612	10

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1	2	3	4	5	6	7
S304.2	1	2	1	Single	561	10
S304.4	1	2	1	Single	561	10
S304.5	1	2	1	Single	561	10
S304.50	1	2	1	Single	680	10
S304.51	1	2	1	Single	699	10
S304.60	1	2	1	Single	714	10
S304.61	1	2	1	Single	714	10
S304.9	1	2	1	Single	567	10
S309.1	1	2	1	Multi	568	15
S309.2	1	2	1	Multi	584	20
S309.3	1	2	1	Multi	584	20
S309.5	1	2	1	Multi	721	20
S320.1	3	4	3	Single	670	15
S320.1	3	4	3	Multi	670	10
S320.4	3	4	3	Single	671	15
S320.7	3	4	3	Single	674	15
S320.7	3	4	3	Multi	674	10
S320.75	*	@	2	Multi	679	10
S321.1	3	4	3	Single	586	15
S321.6	3	4	3	Single	586	20
S321.9	3	4	3	Single	642	15
S322.12	3	4	3	Single	663	10
S322.15	3	4	3	Single	664	10
S322.6	3	4	3	Single	633	10
S322.9	3	4	3	Single	633	10
S323.1	3	4	3	Multi	607	10
S323.12	3	4	3	Multi	660	10
S323.6	3	4	3	Multi	607	10
S323.9	3	4	3	Multi	665	10

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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
S330.1	3	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
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	1	2	1	Single	564	10
APQ	1	2	1	Single	611	10
Jugmera						
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1	2	3	4	5	6	7
EE 3000 N	1	2	1	Single	859	10

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