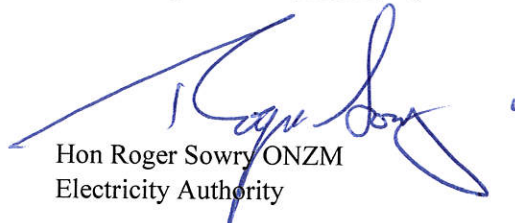


**Electricity Industry Participation (Metering Arrangements)
Code Amendment 2011**


Pursuant to section 38 of the Electricity Industry Act 2010, I make the following amendments to the Electricity Industry Participation Code 2010.

At Wellington on the 22nd day of December 2011


Hon Roger Sowry ONZM
Electricity Authority

Certified in order for signature:


Andrew Springett
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22 December 2011

22 December 2011

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Amendment

- 1 Title**
This is the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.
- 2 Commencement**
This Amendment comes into force on 6 June 2013.
- 3 Principal Code amended**
This Amendment amends the Electricity Industry Participation Code 2010.
- 4 Interpretation**
 - (1) Clause 1.1(1) is amended by inserting the following definitions in their appropriate alphabetical order:

"**applications layer** means a part of a **metering installation** used for a function that is not performed by the **metrology layer**

"**ATH** means a person who is approved under Schedule 10.3 to operate an **approved test house**

"**back office** means a part of an **interrogation** system—

"(a) that sends or receives information to or from a **metering installation**; and

"(b) stores the information in a form that can be made available at the **services access interface** to another person

"**class A ATH** means an **ATH** who is approved under clause 3 of Schedule 10.3

"**class B ATH** means an **ATH** who is approved under clause 4 of Schedule 10.3

"**communication** means, for the purposes of Part 10, the electronic transfer of information, or instructions, to or from a **metering installation**

"**communication equipment** means a device, used for **communication**, in—

- "(a) a **metering installation**; or
- "(b) a **back office**

"**comparative recertification** means **recertification** of a **category 2 metering installation** under clause 12(3) of Schedule 10.7

"**compensation factor** means 1 of the following factors used to compensate for errors, losses, or ratios within a **metering installation**, to produce accurate **volume information**:

- "(a) **error compensation**;
- "(b) **loss compensation**;
- "(c) **ratio compensation**

"**control device** means a device in a **metering installation** that controls either or both of the following:

- "(a) **electricity**—
 - "(i) conveyed through the **metering installation**;
 - and
 - "(ii) used to satisfy controllable load;
- "(b) a **meter** register in the **metering installation**

"**data storage device** means a device in a **metering installation**, whether or not integral to the **meter**, that—

- "(a) electronically stores data and **event logs** used to provide information for the purposes of Part 15; and
- "(b) makes the data and **event logs** available during an **interrogation**

"**decommissioning** means—

- "(a) for the purposes of Part 10, the permanent physical removal of a **metering installation** for a **point of connection**; or
- "(b) for the purposes of Parts 11 and 15, the permanent removal of a **point of connection** by—
 - "(i) permanently removing an **electrical installation** associated with the **point of connection**; or

- "(ii) changing the allocation of electrical loads between **points of connection** with the effect of making the **point of connection** obsolete; or
- "(iii) in the case of a **distributor-only ICP** for an **embedded network**, the **embedded network** ceasing to exist

and **decommission** and **decommissioned** have corresponding meanings

"**energisation** means the operation of an isolator, **circuit breaker**, or switch, or the placing of a fuse or link, so that **electricity** can flow through a **point of connection** on a **network**, and **energise** and **energised** have corresponding meanings

"**event log** means an automatically generated record of activity in a **data storage device**, that can be extracted or manually read as part of an **interrogation**

"**fully calibrated certification** means **certification** of a **metering installation** under clause 13(3) of Schedule 10.7

"**fully certified metering installation** means a **certified metering installation** other than an **interim certified metering installation**

"**gaining metering equipment provider** means, for the purposes of Parts 10 and 11,—

- “(a) the person who a **trader** advises the **registry** may become the **metering equipment provider** for each **metering installation** for a **point of connection**; or
- “(b) the person with whom the **participant** responsible for ensuring there is a **metering installation** for a **point of connection** enters into an arrangement to become the **metering equipment provider** for each **metering installation** for the **point of connection**

"**interim certified metering installation** means a **metering installation** referred to in clause 10.51(3)(a)(i)

"**livening** means connecting, or permitting the connection of, a new **point of connection** to a **network**, for the purposes of an activity regulated under Parts 11 or 15, irrespective of whether or not **electricity** flows through the **point of connection**, and **liven** and **livened** have corresponding meanings

"losing metering equipment provider means, for the purposes of Parts 10 and 11, the existing **metering equipment provider** responsible for each **metering installation** for a **point of connection** at which there is a **gaining metering equipment provider**

"measuring transformer means—

- "(a) a current transformer; or
- "(b) a voltage transformer; or
- "(c) both a current transformer and a voltage transformer

"metering means the process used to measure **electricity** conveyed

"metering component means a component of a **metering installation** including—

- "(a) a **measuring transformer**;
- "(b) all wiring and intermediate terminals in the **metering installation**;
- "(c) a **control device**;
- "(d) a **meter**;
- "(e) a **data storage device**;
- "(f) a **test facility**;
- "(g) a **fuse**;
- "(h) a **circuit breaker**;
- "(i) **communication equipment**;
- "(j) an **error compensation device**

"metering data means, in relation to a **metering installation**,—

- "(a) all **metering records** about the **metering installation**; and
- "(b) all **raw meter data** obtained from the **metering installation**

"metering equipment provider has the meaning given to it in section 5 of the **Act**

"metering infrastructure means, in relation to a **metering installation**,—

- "(a) the **metering installation**;
- "(b) if a **back office** process is necessary, the **metering equipment owner's back office** for the **metering installation**;

"(c) a system that collects and sends information to or from the **metering installation**

"**metering records** means all specifications for, attributes of, and information relating to or concerning, a **metering installation** (other than **raw meter data**), including—

- "(a) the relevant records of the **metering equipment provider** responsible for the **metering installation**:
- "(b) the relevant records of each **ATH** who **certified** the **metering installation** or any **metering component** of the **metering installation**:
- "(c) all factors applied in a **meter** in the **metering installation** and relating to that data (for example the k factor and m factor):
- "(d) the **metering installation's** maintenance and repair history and requirements:
- "(e) details of each **metering component** in the **metering installation** including information about its ownership:
- "(f) all **certification reports** and supporting documents and records

"**metrology layer** means a part of a **metering installation** used for either or both of the following:

- "(a) measuring and recording **electricity** conveyed; or
- "(b) recording **event logs**

"**non half-hour metering** means the process of measuring and recording information—

- "(a) relating to **electricity** conveyed; and
- "(b) at intervals that are greater than 1 **trading period**

"**non half-hour metering installation** means a **metering installation** used for **non half-hour metering**

"**ratio compensation** means a multiplier, used to convert **raw meter data** into **volume information**, that is developed from—

- "(a) the connected ratio of **measuring transformers**; and
- "(b) the number of **metering** elements; and
- "(c) the resolution of the **meter**

"**reactive energy** means the integration over time of the product of voltage and current and the sine of the phase angle between them, normally measured in kilovar hours (kvarh)

"**registry metering records** means the **metering records** set out in Table 1 of clause 7 of Schedule 11.4

"**relevant participant** means, for the purposes of Part 10, a **metering equipment provider** or an **ATH**

"**selected component certification** means **certification** of a **metering installation** under clause 11(3) of Schedule 10.7

"**services access interface** means the point, at which access may be gained to the services available from a **metering installation**, that is—

- "(a) recorded in the **certification report** by the **certifying ATH** for the **metering installation**; and
- "(b) where information received from the **metering installation** can be made available to another person; and
- "(c) where signals for services such as remote control of load (but not ripple control) can be injected

"**temporary energisation** means the temporary **energisation** of a **point of connection** for the purposes of carrying out, at that **point of connection**,—

- "(a) the activities or processes necessary for, or as part of, the **certification** of a **metering installation**; or
- "(b) the maintenance, repair, testing, or **commissioning** of a **metering installation**"

(2) Clause 1.1(1) is amended as follows:

- (a) by amending the definition of **approved test house** by omitting "**Code of Practice 10.2** of Schedule 10.1" and substituting "Part 10";
- (b) by revoking the definition of **calibration report** and substituting the following definition:

"**calibration report** means a report that contains the results of all **calibration** tests carried out on—

- "(a) a **metering installation**; or
- "(b) a **metering component** in a **metering installation**; or
- "(c) a **working standard**"

- (c) by revoking the definition of **category 1 metering installation** and substituting the following definition:

"**category 1 metering installation** means a **metering installation** that has the required defining characteristics for a **metering installation** of that category in Table 1 of Schedule 10.1"

- (d) by revoking the definition of **category 2 metering installation** and substituting the following definition:

"**category 2 metering installation** means a **metering installation** that has the required defining characteristics for a **metering installation** of that category in Table 1 of Schedule 10.1"

- (e) by amending the definition of **certification** by—
- (i) omitting in paragraph (a) "the whole metering system is installed and functioning correctly and that";
 - (ii) omitting in paragraph (b) "an individual component of a **metering installation**" and substituting "a **metering component**";
 - (iii) omitting in paragraph (b) "that component" and substituting "the **metering component**";

- (f) by revoking the definition of **certification report** and substituting the following definition:

"**certification report** means a report that contains—

- "(a) the **calibration report** or **calibration reports**;
- "(b) all other information relevant to the **certification** of a **metering installation** or a **metering component** required under Part 10"

- (g) by revoking the definition of **certification sticker** and substituting the following definition:

"**certification sticker** means a sticker that is valid for a specific period and that is attached—

- "(a) to a **metering installation**, confirming that the **metering installation** has been **certified** by an **ATH** under Schedule 10.7; or
- "(b) to a **metering component**, confirming that the **metering component** has been **certified** by an **ATH** under Schedule 10.8"

- (h) by amending the definition of **code of practice** by omitting ", and includes the **codes of practice** in Schedule 10.1":
- (i) by amending the definition of **de-energisation** by—
 - (i) omitting "movement" and substituting "operation":
 - (ii) omitting "breaker" and substituting "**circuit breaker**,":
 - (iii) omitting "to or from a **network** or any part of a **network**" and substituting "through a **point of connection** on a **network**":
 - (iv) omitting "has a corresponding meaning" and substituting "and **de-energised** have corresponding meanings":
- (j) by amending the definition of **error compensation** by—
 - (i) omitting "**meter**" and substituting "**metering component**":
 - (ii) omitting "component or components of the **metering installation**" and substituting "**metering component**":
- (k) by revoking the definition of **half-hour metering** and substituting the following definition:

"half-hour metering means the process of measuring and recording information—

 - "(a) relating to **electricity** conveyed; and
 - "(b) during—
 - "(i) an interval that is a **trading period**; or
 - "(ii) intervals that can be aggregated to 1 **trading period**"
- (l) by amending the definition of **half-hour metering installation** by omitting "that uses" and substituting "used for":
- (m) by revoking the definition of **interconnection point** and substituting the following definition:

"interconnection point means a **point of connection** between—

- "(a) a **local network** and any other **local network**;
or
 - "(b) an **embedded network** that is not a gateway
NSP and a **local network**; or
 - "(c) an **embedded network** that is not a gateway
NSP and any other **embedded network**"
- (n) by amending the definition of **interrogation** by adding "and **interrogated** and **interrogating** have corresponding meanings" after "**metering installation**":
- (o) by amending the definition of **loss compensation** by—
- (i) omitting "**meter**" and substituting "**metering component**";
 - (ii) omitting the comma after "transformers" and substituting "and";
 - (iii) omitting "etc":
- (p) by revoking the definition of **meter** and substituting the following definition:
- "meter** means a device that measures either or both of the following—
- "(a) **active energy**;
 - "(b) **reactive energy**"
- (q) by revoking the definition of **metering installation** and substituting the following definition:
- "metering installation** means—
- "(a) equipment used, or intended to be used, for **metering**;
 - "(b) in the context of **unmetered load**, the calculation process used to derive the quantity of **unmetered load**;
 - "(c) in the context of instances of both **metered electricity** quantities and **unmetered load**, both (a) and (b)"
- (r) by revoking the definition of **metering standards** and substituting the following definition:
- "metering standards** means the **metering** requirements set out in the Schedules to Part 10"

- (s) by revoking the definition of **raw meter data** and substituting the following definition:
 - "**raw meter data** means—
 - "(a) for the purposes of Part 10, information obtained by the **interrogation** of a **metering installation**; or
 - "(b) for the purposes of Part 15, information obtained from a **metering installation** by 1 of the following **interrogation** methods:
 - "(i) locally by way of a handheld computer or recording device (in which case it must take the form of a downloaded file); or
 - "(ii) locally by way of any other manual record (in which case it must take the form of the first entry in a database system); or
 - "(iii) remotely (in which case it must take the form of database records), but excluding data transmission between **meters** and data concentrators that are relaying information into the **back office**"
- (t) by amending the definition of **software** by inserting ", other than in Parts 10 and 15," after "means":
- (u) by amending the definition of **trader** by omitting "**direct**" in both places where it appears:
- (v) by amending the definition of **working standard** by—
 - (i) omitting "**approved test house**" and substituting "**ATH**";
 - (ii) omitting "**meters** and";
 - (iii) inserting "and **metering components**" after "**metering installations**".
- (3) Clause 1.1(1) is amended by revoking the definitions of **class A approved test house**, **class B approved test house**, **commissioning report**, **metering testing requirements**, **overall accuracy**, and **point of measurement**.

5 New Part 10 substituted

Part 10 is revoked and the Part set out in Schedule 1 of this Amendment substituted.

6 Contents of this Part

Clause 11.1 is amended as follows:

- (a) by omitting in paragraph (c) the full stop and inserting
"; and";
- (b) by adding the following paragraph after paragraph (c):

"(d) prescribes a process for switching responsibility
for **metering installations** for **ICPs** between
metering equipment providers."

7 New clause 11.2A inserted

The following clause is inserted after clause 11.2:

"11.2A Use of contractors

"(1) A **participant** may perform its obligations and exercise its rights under this Part by using a contractor.

"(2) A **participant** who uses a contractor to perform the **participant's** obligation under this Part—

"(a) remains responsible and liable for, and is not released from the obligation or any other obligation under this Part; and

"(b) cannot assert that it is not responsible or liable for the obligation on the ground that the contractor—

"(i) has done or not done something; or

"(ii) has failed to meet a relevant standard;
and

"(c) must ensure that the contractor has at least the specified level of skill, expertise, experience, or qualification that the **participant** would be required to have if it were performing the obligation itself.

"(3) If a **participant** is a party to a contract or arrangement containing a provision, or part of a provision, which is inconsistent with this Part, the provision, or part of the provision, has no effect."

8 New clauses 11.8A and 11.8B inserted

The following clauses are inserted after clause 11.8:

"11.8A Metering equipment providers to provide registry metering records to registry

"(1) A metering equipment provider must, for each metering installation described in subclause (2) for which it is responsible,—

"(a) provide to the registry the registry metering records for the metering installation in the prescribed form; and

"(b) update the registry metering records in accordance with Schedule 11.4.

"(2) Subclause (1) applies to a metering installation that is—

"(a) a category 1 metering installation, or higher category of metering installation; and

"(b) for an ICP that is not also an NSP.

"11.8B Metering equipment provider audits

A metering equipment provider must—

"(a) arrange for an audit of its registry processes and procedures under this Part; and

"(b) ensure that an audit under paragraph (a) is carried out under Schedule 10.5 (with all necessary amendments)."

9 Clause 11.9 revoked

Clause 11.9 is revoked.

10 New clause 11.15A inserted

The following clause is inserted after clause 11.15:

"11.15A Application of Schedule 11.4

The following parties must comply with Schedule 11.4:

"(a) a trader who notifies the registry of the gaining metering equipment provider responsible for each metering installation for an ICP:

"(b) the registry:

"(c) the gaining metering equipment provider."

11 New clause 11.16 substituted

Clause 11.16 is revoked and the following clause substituted:

"11.16 Trader to ensure arrangements for line function services and metering

Before providing the **registry** with information in accordance with clause 11.7(2) or clause 11.18(4), a **trader** must—

- "(a) ensure that it, or its **customer**, has made any necessary arrangements for the provision of line function services in relation to the **ICP**; and
- "(b) have entered into an arrangement with a **metering equipment provider** to be responsible for each **metering installation** for the **ICP**."

12 Connection of ICPs

- (1) The heading to clause 11.17 is amended as follows:

- (a) by omitting "Connection" and substituting "Livening";
- (b) by omitting "ICPs" and substituting "ICP that is not also NSP".

- (2) Clause 11.17 is amended as follows:

- (a) by inserting the following subclause before subclause (1):

"(1A) A **distributor** must, when **livening** an **ICP** that is not also an **NSP**, follow the **livening** process set out in clause 10.29."

- (b) by omitting in subclause (1) "electrically connect" and substituting "**liven**";
- (c) by omitting in subclause (2) "electrically connect" and substituting "**liven**".

13 New clause 11.18 substituted and new clauses 11.18A and 11.18B inserted

Clause 11.18 is revoked and the following clauses substituted:

"11.18 Trader responsibility for ICP

- "(1) If a **trader** is recorded in the **registry** as accepting responsibility for an **ICP** that is not also an **NSP**, the **trader** is responsible for all obligations in this Part that—

- "(a) apply to **traders**; and
- "(b) relate to an **ICP** that is not also an **NSP**.

- "(2) A **trader** ceases to be responsible for obligations in this Part relating to an **ICP** that is not also an **NSP** if—

- "(a) another **trader** is recorded in the **registry** as being responsible for the **ICP**; or
 - "(b) the **ICP** is **decommissioned** in accordance with clause 20 of Schedule 11.1.
- "(3) If an **ICP** is to be **decommissioned**, the **trader** who is responsible for the **ICP** must—
- "(a) arrange for a final **interrogation** to take place before or on removal of the **meter**; and
 - "(b) advise the **metering equipment provider** responsible for each **metering installation** for the **ICP** that it is to be **decommissioned**.
- "(4) A **trader** who is responsible for an **ICP**, other than an **ICP** at which there is only **unmetered load**, must ensure that a **metering equipment provider** is recorded in the **registry** as being responsible for each **metering installation** for the **ICP**.
- "(5) The **trader** must not **trade** at an **ICP** if a **metering equipment provider** is not recorded in the **registry** as being responsible for each **metering installation** for the **ICP**.

"11.18A Registry to advise metering equipment providers

The **registry** must, within 1 **business day** of being advised by a **trader** of a **metering equipment provider's participant identifier** for an **ICP identifier**, —

- "(a) if there is not already a **metering equipment provider** assigned to the **ICP identifier**, advise the **gaining metering equipment provider** that the **registry** has been advised that it is the **gaining metering equipment provider** for each **metering installation** for the **ICP**; or
- "(b) if there is a **losing metering equipment provider**, advise both the **gaining metering equipment provider** and the **losing metering equipment provider** of the advice.

"11.18B Metering equipment provider responsibility for metering installation for ICP

- "(1) This clause applies to a **metering equipment provider** who assumes responsibility, or is appointed to be responsible, as the **metering equipment provider** for an **ICP**.
- "(2) The obligations under this Part, of a **metering equipment provider** to whom this clause applies,—

- "(a) commence at the same time as the **metering equipment provider's** obligations under clause 10.21(1):
 - "(b) terminate when the **metering equipment provider's** obligations under Part 10 terminate under clause 10.23.
- "(3) If an **ICP** is to be **decommissioned**, the **metering equipment provider** who is responsible for each **metering installation** for the **ICP** must, —
- "(a) if the **trader** is responsible for the **interrogation** of the **metering installation**, prior to the **decommissioning**, advise the **trader**, not less than 3 **business days** prior to the **decommissioning**, that the **trader** must, when the status of the **ICP** is changed to inactive in accordance with clause 19 of Schedule 11.1, as part of the **decommissioning** of the **ICP**, carry out a final **interrogation**; or
 - "(b) if the **metering equipment provider** is responsible for the **interrogation** of the **metering installation**, when the status of the **ICP** is changed to inactive in accordance with clause 19 of Schedule 11.1, as part of the **decommissioning** of the **ICP**, arrange for a final **interrogation** to take place and provide the **raw meter data** to the **trader** who is recorded in the **registry** as being responsible for the **ICP**."

14 Access to the registry

- (1) The heading to clause 11.28 is amended by omitting "the".
- (2) Clause 11.28 is amended by inserting the following subclause after subclause (2):

"(2A) The **participant** must comply with the terms and conditions specified by the **Authority** under subclause (2)."

15 New clause 11.29 substituted

Clause 11.29 is revoked and the following clause substituted:

"11.29 Registry information change

If a change to **registry** information is provided in accordance with clause 11.7, the **registry** must, within 1 **business day** of receiving the information, advise affected **participants** of the change."

16 Distributors to provide ICP information to registry

Clause 7(1)(a) of Schedule 11.1 is amended by omitting "unique".

17 Traders to provide ICP information to registry

Clause 9 of Schedule 11.1 is amended as follows:

- (a) by omitting in subclause (1) "at which the **trader** trades **electricity**" and substituting "for which it is recorded in the **registry** as having responsibility";
- (b) by omitting in subclause (1)(c) "primary contact for the metering equipment relevant to that" and substituting "**metering equipment provider** for each **category 1 metering installation**, or higher category metering installation, for the";
- (c) by revoking subclauses (1)(d) and (1)(e):
- (d) by inserting the following paragraph after subclause (1)(e):

"(ea) the type of **submission information** that the **trader** will provide to the **reconciliation manager** for the **ICP**:"

- (e) by omitting from subclause (1)(f) "metering" and substituting "settlement";
- (f) by revoking subclauses (1)(h) and (1)(i).

18 "Active" status

Clause 17(1)(a) of Schedule 11.1 is amended by omitting "connected to the **electricity** supply" and substituting "**energised**".

19 Notification of ICP status

Clause 18 of Schedule 11.1 is amended as follows:

- (a) by omitting "electrically connected" in both places where it appears and substituting in each case "**livened**";
- (b) by omitting "5" and substituting "10".

20 "Inactive" status

Clause 19(a) of Schedule 11.1 is revoked and the following paragraph substituted:

"(a) the **ICP** is **de-energised**; or"

21 Information to be provided if NSPs are created or ICPs are transferred from 1 distributor's network to another distributor's network

Clause 26(2) of Schedule 11.1 is amended by omitting "electrically connected" in both places where it appears and substituting in each case "livened".

22 New Schedule 11.4 inserted

Schedule 11.4, which is set out in Schedule 2 of this Amendment, is added after Schedule 11.3.

23 Auditors

Clause 9(5) of Schedule 15.1 is amended by omitting "at least" and substituting "not more than".

24 New clause 2 of Schedule 15.2 substituted

Clause 2 of Schedule 15.2 is revoked and the following clause substituted:

"2 Collection of raw meter data by certified reconciliation participant

"(1) This clause applies to each **metering installation** for which a **metering equipment provider** is responsible, except for a **metering installation**—

"(a) that only the **metering equipment provider** can electronically **interrogate**; or

"(b) for which the **metering equipment provider** has an arrangement with the **reconciliation participant**, which prevents the **reconciliation participant** from electronically **interrogating** the **metering installation**.

"(2) A **reconciliation participant** must obtain **raw meter data** used to determine **volume information**—

"(a) from the **services access interface** of the **metering installation**; or

"(b) if the **raw meter data** can only be obtained from the **metering equipment provider's back office**, from the **metering equipment provider**.

"(3) A **reconciliation participant** must ensure that the **interrogation cycle** for each **metering installation** that it **interrogates** does not exceed the maximum **interrogation cycle** in the **registry**.

"(4) A **reconciliation participant** must **interrogate** a **metering installation** at least once in each maximum **interrogation cycle** for the **metering installation**.

"(5) A **reconciliation participant** must, when electronically **interrogating** a **metering installation**,—

- "(a) ensure that the **interrogation** and processing system electronically monitors and corrects its internal clocks against a time source with a verifiable standard at a frequency sufficient, but no longer than 1 week, to ensure the internal clock is accurate, when carrying out an **interrogation**, to within ± 5 seconds of—
 - "(i) **New Zealand standard time**; or
 - "(ii) **New Zealand daylight time**; and
- "(b) compare the time on the internal clock of the **data storage device** with the time on the **interrogation** and processing system clock; and
- "(c) calculate the time error for the **data storage device**; and
- "(d) if the time error calculated under paragraph (c) is equal to or less than the applicable time error set out in Table 1, correct the clock of the **data storage device**; and
- "(e) if the time error calculated under paragraph (c) is greater than the applicable time error set out in Table 1,—
 - "(i) correct the clock of the **data storage device**; and
 - "(ii) compare the time of the clock with the time of the **interrogation** and processing system clock; and
 - "(iii) correct any affected **raw meter data**; and
- "(f) download the **event log**.
- "(6) The **reconciliation participant** must record in the **interrogation** and processing system logs, the time, the date, and the extent of any change in the internal clock setting in the **metering installation**.

"Table 1: Maximum permitted time errors

Metering installation category	Half-hour metering installations (seconds)	Non half-hour metering installations (seconds)
1	± 30	± 60
2	± 10	± 60
3	± 10	NA
4	± 10	NA
5	± 5	NA

25 New clause 5 of Schedule 15.2 substituted

Clause 5 of Schedule 15.2 is revoked and the following clause substituted:

"5 Non half-hour metering information

A **reconciliation participant** must, when manually **interrogating a non half-hour metering installation**, if the relevant parts of the **metering installation** are visible and it is safe to do so,—

- "(a) obtain the **meter** register value; and
- "(b) ensure seals are present and intact; and
- "(c) check for phase failure if the **meter** supports it; and
- "(d) check for signs of tampering or damage; and
- "(e) check for electrically unsafe situations."

26 New clause 11 of Schedule 15.2 substituted

Clause 11 of Schedule 15.2 is revoked and the following clause substituted:

"11 Metering installation that is electronically interrogated

"(1) A **reconciliation participant** must, as required under clause 2(2), obtain **raw meter data** from the **services access interface** for an electronically **interrogated metering installation**. This may be carried out through the use of portable devices or remotely by the use of a recognised communications medium.

"(2) **Raw meter data** obtained by the electronic **interrogation** of a **metering installation** must consist of the following as a minimum:

- "(a) the unique identifier of the **data storage device** in the **metering installation**;
- "(b) the time from the **data storage device** at the commencement of the download, unless the time is within specification and the **interrogation** log automatically records the time of **interrogation**;
- "(c) the **metering information**, which represents the quantity of **electricity** conveyed at the **point of connection**, including the date and time stamp or index marker for each **half hour** period. This may be limited to the **metering information** accumulated since the last **interrogation**;
- "(d) the **event log**, which may be limited to the events information accumulated since the last **interrogation**;
- "(e) for all **metering information**, an **interrogation** log generated by the **interrogation software** to record details of all **interrogations**. The **reconciliation participant** responsible for collecting the data must peruse the **interrogation** log and take appropriate action if

problems are apparent. Alternatively, this process may be an automated **software** function that flags exceptions.

"(3) For the purposes of subclause (2)(e), the **interrogation** log must form part of the **interrogation** audit trail and must contain the following as a minimum:

"(a) the date of **interrogation**:

"(b) the time of commencement of **interrogation**:

"(c) the operator identification (if available):

"(d) the unique identifier of the **data storage device**:

"(e) the time errors outside the range specified in Table 1 of clause 2:

"(f) the method of **interrogation**:

"(g) the identifier of the reading device used for **interrogation** (if applicable)."

27 Clause 12 of Schedule 15.2 revoked

Clause 12 of Schedule 15.2 and Table 1 of clause 12 of Schedule 15.2 are revoked.

28 Quantification error

Clause 14 of Schedule 15.2 is amended by omitting "3(4) of **Code of Practice** 10.3 of Schedule 10.1" and substituting "38(1) of Schedule 10.7".

29 Half hour estimates

Clause 15(1) of Schedule 15.2 is amended by omitting "a **half-hour**" and substituting "an electronically **interrogated**".

30 Half hour meter readings and estimated readings

Clause 17 of Schedule 15.2 is amended by:

(a) revoking subclauses (1) and (2) and substituting the following subclauses:

"(1) All **meter readings** obtained by electronic **interrogation** and **estimated readings** must be checked for validity by the relevant **reconciliation participant**.

"(2) Each validity check of a **meter reading** obtained by electronic **interrogation** and each **estimated reading** must be at a frequency that will allow a further **interrogation** of the **data storage device** before the data is overwritten within the **data storage device** and before the data can be used for any purpose under this Code."

- (b) revoking subclause (3):
- (c) amending subclause (4) as follows:
 - (i) by omitting "**meter readings or estimated readings** from **metering**" and substituting "**meter reading** obtained by electronic **interrogation** or an **estimated reading**";
 - (ii) by omitting "**data logger**" in both places where it appears and substituting in each case "**data storage device**";
 - (iii) by omitting in paragraph (f) "**metering data**" and substituting "**metering data**".

31 Archiving and storing of raw meter data

Clause 18(1) of Schedule 15.2 is revoked and the following subclause substituted:

"(1) A **reconciliation participant** who is responsible for **interrogating a metering installation** under this Part must archive all **raw meter data** downloaded or collected, and any changes to the **raw meter data**, for not less than 48 months in accordance with clause 8(6) of Schedule 10.6 with all necessary amendments."

32 Correction of meter readings

Clause 19(2) of Schedule 15.2 is amended by omitting "**data logger**" in each place where it appears and substituting in each case "**data storage device**".

33 Audit trails

Clause 21 of Schedule 15.2 is amended as follows:

- (a) by revoking subclause (2)(b) and substituting the following paragraph:

"(b) cover all **raw meter data** and any changes to the **raw meter data** archived under clause 18."

- (b) by omitting in subclause (5) "10.7" and substituting "18".

34 New clause 2 of Schedule 15.3 substituted

Clause 2 of Schedule 15.3 is revoked and the following clause substituted:

"2 Reconciliation participants to prepare information

"(1) If a **reconciliation participant** is required to prepare **submission information** for an **NSP** for the relevant

consumption period in accordance with this Code, the **submission information** must comprise the following:

- "(a) **half hour volume information** for each **ICP** provided under clause 11.7(2) for which there is a category 3 or higher **metering installation**:
 - "(b) for each **ICP** about which information is provided under clause 11.7(2) for which there is a **category 1 metering installation** or **category 2 metering installation**,—
 - "(i) **half hour volume information** for the **ICP**; or
 - "(ii) non **half hour volume information** calculated under clauses 4 to 6 (as applicable) for the **ICP**:
 - "(c) **unmetered load** quantities for each **ICP** that has **unmetered load** associated with it, which must be derived from the quantity recorded in the **registry** against the relevant **ICP** and the number of days in the period, the **distributed unmetered load** database, or other sources of **relevant information**.
- "(2) To create non **half hour submission information**, a **reconciliation participant** must only use information that is dependent on a **control device** if—
- "(a) the **certification** of the **control device** is recorded in the **registry**; or
 - "(b) the **metering installation** in which the **control device** is located is an **interim certified metering installation**.
- "(3) A **reconciliation participant** must, to create **submission information** for a **point of connection** for which it is responsible, apply to the **raw meter data** obtained from each **metering installation**—
- "(a) for each **ICP**, the **compensation factor** recorded in the **registry** for the **metering installation**; or
 - "(b) for each **NSP**, the **compensation factor** recorded in the **metering installation's** most recent **certification report**."

35 Non metering information

Clause 4 of Schedule 15.5 is amended by omitting "10.7" and substituting "18 of Schedule 15.2".

36 Details of profile approved for use

Clause 6(2) of Schedule 15.5 is amended by omitting "10.7" and substituting "18 of Schedule 15.2".

37 Sampling requirements

Clause 28(1) of Schedule 15.5 is amended as follows:

- (a) by omitting "fully" and substituting "**fully**";
- (b) by omitting "A **metering installation** with interim **certification** under the provisions of **Code of Practice** 10.3 of Schedule 10.1" and substituting "An **interim certified metering installation**".

38 Profile class 2.2 half hour data, metering installations with interim certification

Clause 9 of Appendix 1 of Schedule 15.5 is amended as follows:

- (a) by omitting from subclause (1) "**metering installations** that have been granted interim **certification** under **Code of Practice** 10.3 of Schedule 10.1" and substituting "**interim certified metering installations**";
- (b) by omitting from subclause (1)(a) ", as specified in **Code of Practice** 10.3 of Schedule 10.1" and substituting "under Part 10";
- (c) by omitting from subclause (1)(a) "fully **certified** in accordance with **Code of Practice** 10.3 of Schedule 10.1" and substituting "**recertified** as a fully **certified metering installation** under Part 10";
- (d) by omitting from subclause (1)(b) "fully" and substituting "**fully**";
- (e) by omitting from subclause (1)(b) ", as specified in **Code of Practice** 10.3 of Schedule 10.1";
- (f) by omitting from subclause (1)(b) "interrogation" and substituting "**interrogation**";
- (g) by omitting from subclause (3) "a **metering installation** with interim **certification**" and substituting "an **interim certified metering installation**".

Schedule 1
New Part 10 substituted

cl 5

"Part 10
"Metering

"Contents

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- "10.17 Audits

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- "10.18 Category 1 metering installations and higher categories of metering installations must have metering equipment provider
- "10.19 Metering equipment provider
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