ELECTRICITY INDUSTRY PARTICIPATION CODE RECONCILIATION PARTICIPANT AUDIT REPORT



For

NELSON ELECTRICITY LTD (NELSON ELECTRICITY)

NZBN: 9429038830655

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EXECUTIVE SUMMARY

This Electricity Industry Participation Code Reconciliation Participant audit was performed at the request of **Nelson Electricity Ltd (Nelson Electricity)**, to support application for renewal of certification in accordance with clauses 5 and 7 of Schedule 15.1. The audit was conducted in accordance with the Guideline for Reconciliation Participant Audits V7.2.

Nelson Electricity is responsible for the HVN0331 and FND0112 interconnection points, and is therefore required to be a certified reconciliation participant in accordance with clause 15.38 of part 15.

FND0112

Contact Energy Limited (Contact) provides NSP volumes for the FND0012 interconnection point between the TASM and Nelson Electricity networks.

NSP	Description	Network Type	МЕР	Data Collection	Submission	Primary Agent
FND0112	Founders	NP	-	-	Contact Energy Limited	Contact Energy Limited

The interconnection point is rarely open. Nelson Electricity and Contact confirmed that it has not been used during the audit period, and zeros have been submitted for reconciliation. If the interconnection point is used Nelson Electricity provides SCADA data to Contact for use in the submissions.

HVN0331

Contact is the trader for HVN0331. **EMS** collects and validates the meter data and prepares submission information as an agent. The EMS agent audit report records compliance for all activities performed on behalf of Nelson Electricity.

NSP	Description	Network Type	МЕР	Data Collection	Submission	Primary Agent
HVN0331	HAVEN RD	NP	FCLM	EMS	EMS	Contact Energy Limited

I confirmed the following as part of this audit:

- no defective meters have been identified during the audit period,
- no correction of volume data has occurred during the audit period, and
- no clock synchronisation errors outside the allowable tolerances have occurred during the audit period.

Three trading periods were estimated on 9 April 2024 due to a power outage alarm triggering estimation. The data was replaced with actuals during the audit and will be washed up in revision three.

Conclusion

Compliance was confirmed for all activities that Contact and EMS complete on Nelson Electricity's behalf, and one recommendation is made. I recommend that the next audit be due in 24 months, which is the maximum period allowable under the Code.

AUDIT SUMMARY

NON-COMPLIANCES

Subject	Section	Clause	Non- Compliance	Controls	Audit Risk Rating	Breach Risk Rating	Remedial Action
			Nil				
Future Risk R	Rating	0					

Future risk rating	0	1-3	4-14	16-40	41-55	55+
Indicative audit frequency	36 months	24 months	18 months	12 months	6 months	3 months

RECOMMENDATIONS

Subject	Section	Description	Comment
Apply for exemption for additional interconnection point	12.5	Nelson Electricity apply for an exemption to replace expired exemption number 228 to ensure they are able to quantify electricity in accordance with the code.	Nelson Electricity is reviewing the need to apply for the exemption with neighbouring network Network Tasman to replace the expired exemption number 228.

ISSUES

Subject	Section	Description	Issue
		Nil	

1. ADMINISTRATIVE

1.1. Exemptions from Obligations to Comply with Code (Section 11)

Code reference

Section 11 of Electricity Industry Act 2010.

Code related audit information

Section 11 of the Electricity Industry Act provides for the Electricity Authority to exempt any participant from compliance with all or any of the clauses.

Audit observation

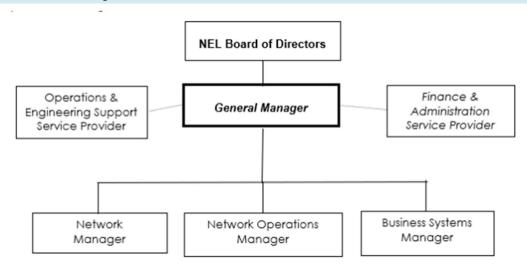
The Electricity Authority's website was reviewed to identify any exemptions relevant to the scope of this audit.

Audit commentary

There are no exemptions relevant to the scope of this audit.

FND0112 was exempted from having an MEP in place under exemption 228, which expired on 3 July 2020. In **section 12.5** I have repeated the previous audit's recommendation that Nelson Electricity apply to the Electricity Authority for an exemption to replace expired exemption number 228.

1.2. Structure of Organisation



1.3. Persons involved in this audit

Auditor:

Name	Role	Company
Tara Gannon	Auditor	Provera

Personnel assisting in this audit were:

Name	Title	Organisation
Phil Goodall	General Manager	Nelson Electricity Limited
Andrew Dickie	Data Analyst	EMS
Aaron Wall	Portfolio Analyst	Contact Energy
Ishmita Kaur	Portfolio Analyst	Contact Energy
KP Chiew	Senior Reconciliation Analyst	Contact Energy

1.4. Use of Agents (Clause 15.34)

Code reference

Clause 15.34

Code related audit information

A reconciliation participant who uses an agent

- remains responsible for the contractor's fulfilment of the participant's Code obligations,
- cannot assert that it is not responsible or liable for the obligation due to something the agent has or has not done.

Audit observation

EMS and Contact are engaged to perform all relevant functions for Nelson Electricity.

1.5. Hardware and Software

This is discussed in the EMS agent audit report, and Contact reconciliation participant audit report.

1.6. Breaches or Breach Allegations

Nelson Electricity has not had any breach allegations relevant to this audit recorded by the Electricity Authority.

1.7. NSP Data

NSP POC	Description	Parent POC	Parent Network	Balancing Area	Network Type	Start Date	MEP
HVN0331	HAVEN RD	STK0031	NELS	STK0331NELSG	NP	1 February 2014	FCLM
FND0112	FOUNDERS	STK0331	NELS	STK0331NELSG	NP	1 August 2008	-

1.8. Authorisation Received

An email of authorisation was provided.

1.9. Scope of Audit

This Electricity Industry Participation Code Reconciliation Participant audit was performed at the request of Nelson Electricity, to support application for renewal of certification in accordance with clauses 5 and 7 of Schedule 15.1. The audit was conducted in accordance with the Guideline for Reconciliation Participant Audits version 7.2.

Nelson Electricity is an embedded network operator and is therefore required to be a certified reconciliation participant in accordance with clause 15.38 of part 15. The scope of the audit is shown in the table below:

Tasks Requiring Certification Under Clause 15.38(1) of Part 15	Agents Involved in Performance of Tasks	
(b) – Gathering and storing raw meter data		
(c)(i) - Creation and management of HHR volume information	EMS (HVN0331) Contact (FND0012)	
(e) – Provision of submission information for reconciliation		

Although Contact is the primary agent to Nelson Electricity for HVN0331, EMS conducts all the relevant data collection and reconciliation activities. The last EMS audit report was completed by Veritek Limited, and records compliance in relation to the activities performed on behalf of Nelson Electricity.

Contact is the agent to Nelson Electricity for FND0012, and the processes they complete for Nelson Electricity were reviewed during their 2024 reconciliation participant audit completed by Provera. The processes were confirmed to be compliant.

1.10. Summary of previous audit

The previous audit was conducted in May 2022 by Steve Woods of Veritek Limited. Compliance was recorded and one recommendation was raised.

Subject	Section	Description	Comment
Apply for exemption for additional interconnection point	12.5	Nelson Electricity apply for an exemption to replace expired exemption number 228 to ensure they are able to quantify electricity in accordance with the code.	Not adopted, and re-raised.

2. OPERATIONAL INFRASTRUCTURE

2.1. Relevant information (Clause 10.6, 11.2, 15.2)

Code reference

Clause 10.6, 11.2, 15.2

Code related audit information

A participant must take all practicable steps to ensure that information that the participant is required to provide is:

- a) complete and accurate,
- b) not misleading or deceptive,
- c) not likely to mislead or deceive.

If the participant becomes aware that in providing information under this Part, the participant has not complied with that obligation, the participant must, as soon as practicable, provide such further information as is necessary to ensure that the participant does comply.

Audit observation

The process to find and correct incorrect information was reviewed.

Audit commentary

Any instances of incorrect, incomplete, and misleading information are resolved as they arise, and the EMS and Contact agent processes were found to be compliant. I found all information was complete, accurate and not misleading, or was updated as soon as practicable once errors were found.

FND0012

No inaccurate information was identified for FND0012.

HVN0331

Three trading periods were estimated for HVN0331 on 9 April 2024 due to a power outage alarm triggering estimation. The data was immediately replaced with actuals when identified during the audit and will be washed up in revision three.

EMS has processes to automatically create estimates and replace estimates with actual data if it becomes available at a later date, but in this case the estimates were unexpectedly applied due to the non-standard metering configuration for this NSP.

Audit outcome

Compliant

2.2. Provision of information (Clause 15.35)

Code reference

Clause 15.35

Code related audit information

If an obligation exists to provide information in accordance with Part 15, a participant must deliver that information to the required person within the timeframe specified in the Code, or, in the absence of any such timeframe, within any timeframe notified by the Authority. Such information must be delivered in the format determined from time to time by the Authority.

Audit observation

The process to find and correct incorrect information was reviewed.

Audit commentary

Any instances of incorrect, incomplete, and misleading information are resolved as they arise.

Any instances of incorrect, incomplete, and misleading information are resolved as they arise, and the EMS and Contact agent processes were found to be compliant. I found all information was complete, accurate and not misleading, or was updated as soon as practicable once errors were found.

Audit outcome

Compliant

2.3. Data transmission (Clause 20 Schedule 15.2)

Code reference

Clause 20 Schedule 15.2

Code related audit information

Transmissions and transfers of data related to metering information between reconciliation participants or their agents, for the purposes of the Code, must be carried out electronically using systems that ensure the security and integrity of the data transmitted and received.

Audit observation

FND0012

Contact provides NSP volumes for the FND0012 interconnection point between the TASM and Nelson Electricity networks. The interconnection point is rarely open. Nelson Electricity and Contact confirmed that it has not been used during the audit period, and zeros have been submitted for reconciliation. If the interconnection point is used Nelson Electricity provides SCADA data to Contact for use in the submissions.

HVN0331

Data transmission for HVN0331 was reviewed as part of the EMS agent audit.

Audit commentary

FND0012

FND0012 was not used during the audit period, and no data was transmitted from Nelson Electricity to Contact for use in the submission process.

HVN0331

Compliance is recorded in the EMS agent audit report for HVN0331.

Audit outcome

2.4. Audit trails (Clause 21 Schedule 15.2)

Code reference

Clause 21 Schedule 15.2

Code related audit information

Each reconciliation participant must ensure that a complete audit trail exists for all data gathering, validation, and processing functions of the reconciliation participant.

The audit trail must include details of information:

- provided to and received from the registry manager,
- provided to and received from the reconciliation manager,
- provided and received from other reconciliation participants and their agents.

The audit trail must cover all archived data in accordance with clause 18.

The logs of communications and processing activities must form part of the audit trail, including if automated processes are in operation.

Logs must be printed and filed as hard copy or maintained as data files in a secure form, along with other archived information.

The logs must include (at a minimum) the following:

- an activity identifier (clause 21(4)(a)),
- the date and time of the activity (clause 21(4)(b)),
- the operator identifier for the person who performed the activity (clause 21(4)(c)).

Audit observation

Audit trails were reviewed as part of the EMS agent audit and Contact reconciliation participant audit.

Audit commentary

Compliance is confirmed.

Audit outcome

Compliant

2.5. Retailer responsibility for electricity conveyed - participant obligations (Clause 10.4)

Code reference

Clause 10.4

Code related audit information

If a participant must obtain a consumer's consent, approval, or authorisation, the participant must ensure it:

- extends to the full term of the arrangement,
- covers any participants who may need to rely on that consent.

Audit observation

Not applicable

Audit commentary

Audit outcome

Not applicable

2.6. Retailer responsibility for electricity conveyed - access to metering installations (Clause 10.7(2),(4),(5) and (6))

Code reference

Clause 10.7(2),(4),(5) and (6)

Code related audit information

The responsible reconciliation participant must, if requested, arrange access for the metering installation to the following parties:

- the Authority,
- an ATH,
- an auditor,
- an MEP,
- a gaining metering equipment provider.

The trader must use its best endeavours to provide access:

- in accordance with any agreements in place,
- in a manner and timeframe which is appropriate in the circumstances.

If the trader has a consumer, the trader must obtain authorisation from the customer for access to the metering installation, otherwise it must arrange access to the metering installation.

The reconciliation participant must provide any necessary facilities, codes, keys or other means to enable the party to obtain access to the metering installation by the most practicable means.

Audit observation

I checked Nelson Electricity's policy in relation to allowing access to metering, and if any requests had been received during the audit period.

Audit commentary

Arrangements for access to metering are completed as necessary. As far as Nelson Electricity is aware, there have been no cases where access could not be arranged.

Audit outcome

Compliant

2.7. Physical location of metering installations (Clause 10.35(1)&(2))

Code reference

Clause 10.35(1)&(2)

Code related audit information

A reconciliation participant responsible for ensuring there is a category 1 metering installation or category 2 metering installation must ensure that the metering installation is located as physically close to a point of connection as practical in the circumstances.

A reconciliation participant responsible for ensuring there is a category 3 or higher metering installation must:

- a) if practical in the circumstances, ensure that the metering installation is located at a point of connection; or
- b) if it is not practical in the circumstances to locate the metering installation at the point of connection, calculate the quantity of electricity conveyed through the point of connection using a loss compensation process approved by the certifying ATH.

Audit observation

Not applicable

Audit outcome

Not applicable

Audit outcome

Not applicable

2.8. Trader contracts to permit assignment by the Authority (Clause 11.15B)

Code reference

Clause 11.15B

Code related audit information

A trader must at all times ensure that the terms of each contract between a customer and a trader permit:

- the Authority to assign the rights and obligations of the trader under the contract to another trader if the trader commits an event of default under paragraph (a) or (b) or (f) or (h) of clause 14.41 (clause 11.15B(1)(a)); and
- the terms of the assigned contract to be amended on such an assignment to—
- the standard terms that the recipient trader would normally have offered to the customer immediately before the event of default occurred (clause 11.15B(1)(b)(i)); or
- such other terms that are more advantageous to the customer than the standard terms, as the recipient trader and the Authority agree (clause 11.15B(1)(b)(ii); and
- the terms of the assigned contract to be amended on such an assignment to include a minimum term in respect of which the customer must pay an amount for cancelling the contract before the expiry of the minimum term (clause 11.15B(1)(c)); and
- the trader to provide information about the customer to the Authority and for the Authority to provide the information to another trader if required under Schedule 11.5 (clause 11.15B(1)(d));
 and
- the trader to assign the rights and obligations of the trader to another trader (clause 11.15B(1)(e)).

The terms specified in subclause (1) must be expressed to be for the benefit of the Authority for the purposes of the Contracts (Privacy) Act 1982, and not be able to be amended without the consent of the Authority (clause 11.15B(2)).

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

2.9. Connection of an ICP (Clause 10.32)

Code reference

Clause 10.32

Code related audit information

A reconciliation participant must only request the connection of a point of connection if they:

- accept responsibility for their obligations in Parts 10, 11 and 15 for the point of connection; and
- have an arrangement with an MEP to provide one or more metering installations for the point of connection.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

2.10. Temporary Electrical Connection of an ICP (Clause 10.33)

Code reference

Clause 10.33(1)

Code related audit information

A trader may temporarily electrically connect a point of connection, or authorise a MEP to temporarily electrically connect a point of connection, only if:

- for a point of connection to the grid the grid owner has approved the connection
- for an NSP that is not a point of connection to the grid the relevant distributor has approved the connection.
- for a point of connection that is an ICP, but is not as NSP:
 - the trader is recorded in the registry as the trader responsible for the ICP or has an arrangement with the customer and initiates a switch within two business days of electrical connection
 - o if the ICP has metered load, one or more certified metering installations are in place
 - o if the ICP has not previously been electrically connected, the relevant distributor has given written approval of the temporary electrical connection.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

2.11. Electrical Connection of Point of Connection (Clause 10.33A)

Code reference

Clause 10.33A(1)

Code related audit information

A reconciliation participant may electrically connect or authorise the electrical connection of a point of connection only if:

- the trader is recorded in the registry as the trader responsible for the ICP or has an arrangement with the customer and initiates a switch within two business days of electrical connection
- o if the ICP has metered load, one or more certified metering installations are in place
- o if the ICP has not previously been electrically connected, the relevant distributor has given written approval of the electrical connection.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

2.12. Arrangements for line function services (Clause 11.16)

Code reference

Clause 11.16

Code related audit information

Before providing the registry manager with any information in accordance with clause 11.7(2) or clause 11.18(4), a trader must ensure that it, or its customer, has made any necessary arrangements for the provision of line function services in relation to the relevant ICP

Before providing the registry manager with any information in accordance with clause 11.7(2) or clause 11.18(4), a trader must have entered into an arrangement with an MEP for each metering installation at the ICP.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

2.13. Arrangements for metering equipment provision (Clause 10.36)

Code reference

Clause 10.36

Code related audit information

A reconciliation participant must ensure it has an arrangement with the relevant MEP prior to accepting responsibility for an installation.

Audit observation

The NSP supply point table was examined on 29 May 2024, and the NSP details are recorded in **section 1.7**.

Audit commentary

FND0112

FND0112 was exempted from having an MEP in place under exemption 228, which expired on 3 July 2020. The interconnection point NSP FND0112 has not been used during the audit period, therefore there is no non-compliance. In **section 12.5** I have repeated the previous audit's recommendation that Nelson Electricity apply to the Electricity Authority for an exemption to replace expired exemption number 228.

HVN0031

HVN0331 has FCLM recorded as the MEP.

Audit outcome

Compliant

2.14. Connecting ICPs then withdrawing switch (Clause 10.33A(5))

Code reference

Clause 10.33B

Code related audit information

If a trader connects an ICP it is in the process of switching and the switch does not proceed or is withdrawn the trader must:

- restore the disconnection, including removing any bypass and disconnecting using the same method the losing trader used,
- reimburse the losing trader for any direct costs incurred

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

2.15. Electrical disconnection of ICPs (Clause 10.33B)

Code reference

Clause 10.33B

Code related audit information

Unless the trader is recorded in the registry or is meeting its obligation under 10.33A(5) it must not disconnect or electrically disconnect the ICP or authorise the metering equipment provider to disconnect or electrically disconnect the ICP.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

2.16. Removal or breakage of seals (Clause 48(1C), 48 (1D), 48 (1E), 48 (1F) of Schedule 10.7)

Code reference

Clause 48(1C), 48 (1D), 48 (1E), 48 (1F) of Schedule 10.7

Code related audit information

A trader can remove or break a seal without authorisation from the MEP to:

- reset a load control switch, bridge or un-bridge a load control switch if the load control switch does not control a tome block meter channel,
- electrically connect load or generation, of the load or generation has been disconnected at the meter,
- electrically disconnect load or generation, if the trader has exhausted all other appropriate methods of electrical disconnection,
- bridge the meter.

A trader that removes or breaks a seal in this way must:

- ensure personal are qualified to remove the seal and perform the permitted work and they replace the seal in accordance with the Code,
- replace the seal with its own seal,
- have a process for tracing the new seal to the personnel,
- update the registry (if the profile code has changed),
- notify the metering equipment provider.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

2.17. Meter bridging (Clause 10.33C and 2A of Schedule 15.2

Code reference

Clause 10.33C and 2A of Schedule 15.2

Code related audit information

- A trader, or a distributor or MEP which has been authorised by the trader, may only electrically connect an ICP in a way that bypasses a meter that is in place ("bridging") if, despite best endeavours:
- the MEP is unable to remotely electrically connect the ICP,
- the MEP cannot repair a fault with the meter due to safety concerns,
- the consumer will likely be without electricity for a period which would cause significant disadvantage to the consumer.

If the trader bridges a meter, the trader must:

- determine the quantity of electricity conveyed through the ICP for the period of time the meter was bridged,
- submit that estimated quantity of electricity to the reconciliation manager,
- within one business day of being advised that the meter is bridged, notify the MEP that they are required to reinstate the meter so that all electricity flows through a certified metering installation.

The trader must determine meter readings as follows:

- by substituting data from an installed check meter or data storage device,
- if a check meter or data storage device is not installed, by using half hour data from another period where the trader considers the pattern of consumption is materially similar to the period during which the meter was bridged,
- if half hour data is not available, a non-half hour estimated reading that the trader considers is the best estimate during the bridging period must be used.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

2.18. Use of ICP identifiers on invoices (Clause 11.30)

Code reference

Clause 11.30

Code related audit information

Each trader must ensure the relevant ICP identifier is printed on every invoice or document relating to the sale of electricity.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

2.19. Provision of information on dispute resolution scheme (Clause 11.30A)

Code reference

Clause 11.30A

Code related audit information

A retailer must provide clear and prominent information about Utilities Disputes:

- on their website,
- when responding to queries from consumers,
- in directed outbound communications to consumers about electricity services and bills.

If there are a series of related communications between the retailer and consumer, the retailer needs to provide this information in at least one communication in that series.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

2.20. Provision of information on electricity plan comparison site (Clause 11.30B)

Code reference

Clause 11.30B

Code related audit information

A retailer that trades at an ICP recorded on the registry must provide clear and prominent information about Powerswitch:

- on their website,
- in outbound communications to residential consumers about price and service changes,
- to residential consumers on an annual basis,
- in directed outbound communications about the consumer's bill.

If there are a series of related communications between the retailer and consumer, the retailer needs to provide this information in at least one communication in that series.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

3. MAINTAINING REGISTRY INFORMATION

This audit report is for NSP volumes only. No ICPs are traded therefore this section has been deleted.

4. PERFORMING CUSTOMER AND EMBEDDED GENERATOR SWITCHING

This audit report is for NSP volumes only. No ICPs are traded therefore this section has been deleted.

5. MAINTENANCE OF UNMETERED LOAD

This audit report is for NSP volumes only. No ICPs are traded therefore this section has been deleted.

6. GATHERING RAW METER DATA

6.1. Electricity conveyed & notification by embedded generators (Clause 10.13, Clause 10.24 and 15.13)

Code reference

Clause 10.13, Clause 10.24 and Clause 15.13

Code related audit information

A participant must use the quantity of electricity measured by a metering installation as the raw meter data for the quantity of electricity conveyed through the point of connection.

This does not apply if data is estimated or gifted in the case of embedded generation under clause 15.13.

A trader must, for each electrically connected ICP that is not also an NSP, and for which it is recorded in the registry as being responsible, ensure that:

- there is one or more metering installations,
- all electricity conveyed is quantified in accordance with the Code,
- it does not use subtraction to determine submission information for the purposes of Part 15.

An embedded generator must give notification to the reconciliation manager for an embedded generating station, if the intention is that the embedded generator will not be receiving payment from the clearing manager or any other person through the point of connection to which the notification relates.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

6.2. Responsibility for metering at GIP (Clause 10.26 (6), (7) and (8))

Code reference

Clause 10.26 (6), (7) and (8)

Code related audit information

For each proposed metering installation or change to a metering installation that is a connection to the grid, the participant, must:

- provide to the grid owner a copy of the metering installation design (before ordering the equipment),
- provide at least three months for the grid owner to review and comment on the design,
- respond within three business days of receipt to any request from the grid owner for additional details or changes to the design,
- ensure any reasonable changes from the grid owner are carried out.

The participant responsible for the metering installation must:

- advise the reconciliation manager of the certification expiry date not later than 10 business days after certification of the metering installation,

- become the MEP or contract with a person to be the MEP,
- advise the reconciliation manager of the MEP identifier no later than 20 days after entering into a contract or assuming responsibility to be the MEP.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

6.3. Certification of control devices (Clause 33 Schedule 10.7 and clause 2(2) Schedule 15.3)

Code reference

Clause 33 Schedule 10.7 and clause 2(2) Schedule 15.3

Code related audit information

The reconciliation participant must advise the metering equipment provider if a control device is used to control load or switch meter registers.

The reconciliation participant must ensure the control device is certified prior to using it for reconciliation purposes.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

6.4. Reporting of defective metering installations (Clause 10.43(2) and (3))

Code reference

Clause 10.43(2) and (3)

Code related audit information

If a participant becomes aware of an event or circumstance that lead it to believe a metering installation could be inaccurate, defective, or not fit for purpose they must:

- advise the MEP,
- include in the advice all relevant details.

Audit observation

Processes for defective meters were reviewed. Information on inaccurate or defective meters between June 2022 and May 2024 was requested.

Audit commentary

HVN0331

EMS have processes to validate data, which are sufficient to identify defective meters. EMS support compliance by advising of any potential data accuracy issues identified during data validation. EMS confirmed that no meter defects were identified during the audit period.

FND0112

FND0012 is not metered.

Audit outcome

Compliant

6.5. Collection of information by certified reconciliation participant (Clause 2 Schedule 15.2)

Code reference

Clause 2 Schedule 15.2

Code related audit information

Only a certified reconciliation participant may collect raw meter data, unless only the MEP can interrogate the meter, or the MEP has an arrangement which prevents the reconciliation participant from electronically interrogating the meter:

- 2(2) The reconciliation participant must collect raw meter data used to determine volume information from the services interface or the metering installation or from the MEP.
- 2(3) The reconciliation participant must ensure the interrogation cycle is such that is does not exceed the maximum interrogation cycle in the registry.
- 2(4) The reconciliation participant must interrogate the meter at least once every maximum interrogation cycle.
- 2(5) When electronically interrogating the meter the participant must:
 - a) ensure the system is to within +/- 5 seconds of NZST or NZDST,
 - b) compare the meter time to the system time,
 - c) determine the time error of the metering installation,
 - d) if the error is less than the maximum permitted error, correct the meter's clock,
 - e) if the time error is greater than the maximum permitted error then:
 - i) correct the metering installation's clock,
 - ii) compare the metering installation's time with the system time,
 - iii) correct any affected raw meter data.
 - f) download the event log.

2(6) – The interrogation systems must record:

- the time,
- the date,
- the extent of any change made to the meter clock.

Audit observation

Data collection was reviewed as part of the EMS agent audit. Information on clock synchronisation events between April 2022 and February 2024 was requested.

Audit commentary

HVN0331

Compliance is recorded in the EMS agent audit report in relation to this clause. No clock synchronisation events outside the allowable threshold occurred during the audit period.

FND0112

FND0012 is not metered.

Audit outcome

Compliant

6.6. Derivation of meter readings (Clauses 3(1), 3(2) and 5 Schedule 15.2)

Code reference

Clauses 3(1), 3(2) and 5 Schedule 15.2

Code related audit information

All meter readings must in accordance with the participants certified processes and procedures and using its certified facilities be sourced directly from raw meter data and, if appropriate, be derived and calculated from financial records.

All validated meter readings must be derived from meter readings.

A meter reading provided by a consumer may be used as a validated meter reading only if another set of validated meter readings not provided by the consumer are used during the validation process.

During the manual interrogation of each NHH metering installation the reconciliation participant must:

- a) obtain the meter register,
- b) ensure seals are present and intact,
- c) check for phase failure (if supported by the meter),
- d) check for signs of tampering and damage,
- e) check for electrically unsafe situations.

If the relevant parts of the metering installation are visible and it is safe to do so.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

6.7. NHH meter reading application (Clause 6 Schedule 15.2)

Code reference

Clause 6 Schedule 15.2

Code related audit information

For NHH switch event meter reads, for the gaining trader the reading applies from 0000 hours on the day of the relevant event date and for the losing trader at 2400 hours at the end of the day before the relevant event date.

In all other cases, All NHH readings apply from 0000hrs on the day after the last meter interrogation up to and including 2400hrs on the day of the meter interrogation.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

6.8. Interrogate meters once (Clause 7(1) and (2) Schedule 15.2)

Code reference

Clause 7(1) and (2) Schedule 15.2

Code related audit information

Each reconciliation participant must ensure that a validated meter reading is obtained in respect of every meter register for every non half hour metered ICP for which the participant is responsible, at least once during the period of supply to the ICP by the reconciliation participant and used to create volume information.

This may be a validated meter reading at the time the ICP is switched to, or from, the reconciliation participant.

If exceptional circumstances prevent a reconciliation participant from obtaining the validated meter reading, the reconciliation participant is not required to comply with clause 7(1).

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

6.9. NHH meters interrogated annually (Clause 8(1) and (2) Schedule 15.2)

Code reference

Clause 8(1) and (2) Schedule 15.2

Code related audit information

At least once every 12 months, each reconciliation participant must obtain a validated meter reading for every meter register for non half hour metered ICPs, at which the reconciliation participant trades continuously for each 12-month period.

If exceptional circumstances prevent a reconciliation participant from obtaining the validated meter reading, the reconciliation participant is not required to comply with clause 8(1).

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

6.10. NHH meters 90% read rate (Clause 9(1) and (2) Schedule 15.2)

Code reference

Clause 9(1) and (2) Schedule 15.2

Code related audit information

In relation to each NSP, each reconciliation participant must ensure that for each NHH ICP at which the reconciliation participant trades continuously for each 4 months, for which consumption information is required to be reported into the reconciliation process. A validated meter reading is obtained at least once every four months for 90% of the non half hour metered ICPs.

A report is to be sent to the Authority providing the percentage, in relation to each NSP, for which consumption information has been collected no later than 20 business days after the end of each month.

If exceptional circumstances prevent a reconciliation participant from obtaining the validated meter reading, the reconciliation participant is not required to comply with clause 9(1).

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

6.11. NHH meter interrogation log (Clause 10 Schedule 15.2)

Code reference

Clause 10 Schedule 15.2

Code related audit information

The following information must be logged as the result of each interrogation of the NHH metering:

10(a) - the means to establish the identity of the individual meter reader,

10(b) - the ICP identifier of the ICP, and the meter and register identification,

10(c) - the method being used for the interrogation and the device ID of equipment being used for interrogation of the meter,

10(d) - the date and time of the meter interrogation.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

6.12. HHR data collection (Clause 11(1) Schedule 15.2)

Code reference

Clause 11(1) Schedule 15.2

Code related audit information

Raw meter data from all electronically interrogated metering installations must be obtained via the services access interface.

This may be carried out by a portable device or remotely.

Audit observation

FND0012

The interconnection point is rarely open. Nelson Electricity and Contact confirmed that it has not been used during the audit period, and zeros have been submitted for reconciliation. If the interconnection point is used Nelson Electricity provides SCADA data to Contact for use in the submissions.

HVN0331

HHR data collection was reviewed as part of the EMS agent audit for HVN0331.

Audit commentary

FND0012

FND0012 has not been used during the audit period.

HVN0331

Compliance is recorded in the EMS agent audit report.

Audit outcome

Compliant

6.13. HHR interrogation data requirement (Clause 11(2) Schedule 15.2)

Code reference

Clause 11(2) Schedule 15.2

Code related audit information

The following information is collected during each interrogation:

11(2)(a) - the unique identifier of the data storage device,

11(2)(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,

11(2)(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,

11(2)(d) - the event log, which may be limited to the events information accumulated since the last interrogation,

11(2)(e) - an interrogation log generated by the interrogation software to record details of all interrogations.

The interrogation log must be examined by the reconciliation participant responsible for collecting the data and appropriate action must be taken if problems are apparent or an automated software function flags exceptions.

Audit observation

FND0012

The interconnection point is rarely open. Nelson Electricity and Contact confirmed that it has not been used during the audit period, and zeros have been submitted for reconciliation. If the interconnection point is used Nelson Electricity provides SCADA data to Contact for use in the submissions.

HVN0331

HHR data interrogation was reviewed as part of the EMS agent audit for HVN0331.

Audit commentary

FND0012

FND0012 has not been used during the audit period.

HVN0331

Compliance is recorded in the EMS agent audit report.

Audit outcome

6.14. HHR interrogation log requirements (Clause 11(3) Schedule 15.2)

Code reference

Clause 11(3) Schedule 15.2

Code related audit information

The interrogation log forms part of the interrogation audit trail and, as a minimum, must contain the following information:

11(3)(a)- the date of interrogation,

11(3)(b)- the time of commencement of interrogation,

11(3)(c)- the operator identification (if available),

11(3)(d)- the unique identifier of the meter or data storage device,

11(3)(e)- the clock errors outside the range specified in Table 1 of clause 2,

11(3)(f)- the method of interrogation,

11(3)(g)- the identifier of the reading device used for interrogation (if applicable).

Audit observation

FND0012

The interconnection point is rarely open. Nelson Electricity and Contact confirmed that it has not been used during the audit period, and zeros have been submitted for reconciliation. If the interconnection point is used Nelson Electricity provides SCADA data to Contact for use in the submissions.

HVN0331

HHR data interrogation logs were reviewed as part of the EMS agent audit for HVN0331.

Audit commentary

FND0012

FND0012 has not been used during the audit period.

HVN0331

Compliance is recorded in the EMS agent audit report.

Audit outcome

7. STORING RAW METER DATA

7.1. Trading period duration (Clause 13 Schedule 15.2)

Code reference

Clause 13 Schedule 15.2

Code related audit information

The trading period duration, normally 30 minutes, must be within ±0.1% (±2 seconds).

Audit observation

Trading period duration is the responsibility of the MEP for HVN0331. FND0012 is unmetered.

Audit commentary

Trading period duration is the responsibility of the MEP for HVN0331. As recorded in **section 6.5**, no clock synchronisation events outside the allowable threshold occurred during the period reviewed.

Audit outcome

Compliant

7.2. Archiving and storage of raw meter data (Clause 18 Schedule 15.2)

Code reference

Clause 18 Schedule 15.2

Code related audit information

A reconciliation participant who is responsible for interrogating a metering installation must archive all raw meter data and any changes to the raw meter data for at least 48 months, in accordance with clause 8(6) of schedule 10.6.

Procedures must be in place to ensure that raw meter data cannot be accessed by unauthorised personnel.

Meter readings cannot be modified without an audit trail being created.

Audit observation

Archiving and storage of meter data was reviewed as part of the EMS agent audit for HVN0331. FND0012 is unmetered.

Audit commentary

Compliance is recorded in the EMS agent audit report.

Audit outcome

7.3. Non metering information collected / archived (Clause 21(5) Schedule 15.2)

Code reference

Clause 21(5) Schedule 15.2

Code related audit information

All relevant non-metering information, such as external control equipment operation logs, used in the determination of profile data must be collected, and archived in accordance with clause 18.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

8. CREATING AND MANAGING (INCLUDING VALIDATING, ESTIMATING, STORING, CORRECTING AND ARCHIVING) VOLUME INFORMATION

8.1. Correction of NHH meter readings (Clause 19(1) Schedule 15.2)

Code reference

Clause 19(1) Schedule 15.2

Code related audit information

If a reconciliation participant detects errors while validating non-half hour meter readings, the reconciliation participant must:

19(1)(a) - confirm the original meter reading by carrying out another meter reading,

19(1)(b) - replace the original meter reading the second meter reading (even if the second meter reading is at a different date),

19(1A) if a reconciliation participant detects errors while validating non half hour meter readings, but the reconciliation participant cannot confirm the original meter reading or replace it with a meter reading from another interrogation, the reconciliation participant must:

- substitute the original meter reading with an estimated reading that is marked as an estimate;
 and
- subsequently replace the estimated reading in accordance with clause 4(2).

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

8.2. Correction of HHR metering information (Clause 19(2) Schedule 15.2)

Code reference

Clause 19(2) Schedule 15.2

Code related audit information

If a reconciliation participant detects errors while validating half hour meter readings, the reconciliation participant must correct the meter readings as follows:

19(2)(a) - if the relevant metering installation has a check meter or data storage device, substitute the original meter reading with data from the check meter or data storage device; or

19(2)(b) - if the relevant metering installation does not have a check meter or data storage device, substitute the original meter reading with data from another period provided:

- (i) The total of all substituted intervals matches the total consumption recorded on a meter, if available; and
- (ii) The reconciliation participant considers the pattern of consumption to be materially similar to the period in error.

Audit observation

FND0012

The interconnection point is rarely open. Nelson Electricity and Contact confirmed that it has not been used during the audit period, and zeros have been submitted for reconciliation. No corrections were required during the audit period.

HVN0331

Correction processes were reviewed as part of the EMS agent audit. Information on corrections between June 2022 and May 2024 was requested.

Audit commentary

FND0012

The interconnection point is rarely open. Nelson Electricity and Contact confirmed that it has not been used during the audit period, and zeros have been submitted for reconciliation. No corrections were required during the audit period.

HVN0331

Compliance is recorded in the EMS audit report in relation to this clause. EMS confirmed that no corrections occurred during the audit period.

Audit outcome

Compliant

8.3. Error and loss compensation arrangements (Clause 19(3) Schedule 15.2)

Code reference

Clause 19(3) Schedule 15.2

Code related audit information

A reconciliation participant may use error compensation and loss compensation as part of the process of determining accurate data. Whichever methodology is used, the reconciliation participant must document the compensation process and comply with audit trail requirements set out in the Code.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

8.4. Correction of HHR and NHH raw meter data (Clause 19(4) and (5) Schedule 15.2)

Code reference

Clause 19(4) and (5) Schedule 15.2

Code related audit information

In correcting a meter reading in accordance with clause 19, the raw meter data must not be overwritten. If the raw meter data and the meter readings are the same, an automatic secure backup of the affected data must be made and archived by the processing or data correction application.

If data is corrected or altered, a journal must be generated and archived with the raw meter data file. The journal must contain the following:

19(5)(a)- the date of the correction or alteration,

19(5)(b)- the time of the correction or alteration,

19(5)(c)- the operator identifier for the person within the reconciliation participant who made the correction or alteration,

19(5)(d)- the half-hour metering data or the non half hour metering data corrected or altered, and the total difference in volume of such corrected or altered data,

19(5)(e)- the technique used to arrive at the corrected data,

19(5)(f)- the reason for the correction or alteration.

Audit observation

Correction processes were reviewed as part of the EMS agent audit and Contact reconciliation participant audit. Information on corrections between June 2022 and May 2024 was requested.

Audit commentary

Compliance is recorded in the EMS audit report in relation to this clause. EMS and Contact confirmed that no corrections occurred during the audit period.

Audit outcome

9. ESTIMATING AND VALIDATING VOLUME INFORMATION

9.1. Identification of readings (Clause 3(3) Schedule 15.2)

Code reference

Clause 3(3) Schedule 15.2

Code related audit information

All estimated readings and permanent estimates must be clearly identified as an estimate at source and in any exchange of metering data or volume information between participants.

Audit observation

Identification of readings was reviewed as part of the EMS agent audit and Contact reconciliation participant audit.

Audit commentary

Compliance is confirmed.

Audit outcome

Compliant

9.2. Derivation of volume information (Clause 3(4) Schedule 15.2)

Code reference

Clause 3(4) Schedule 15.2

Code related audit information

Volume information must be directly derived, in accordance with Schedule 15.2, from:

3(4)(a) - validated meter readings,

3(4)(b) - estimated readings,

3(4)(c) - permanent estimates.

Audit observation

Derivation of volumes was reviewed as part of the EMS agent audit and Contact reconciliation participant audit.

Audit commentary

Compliance is confirmed.

Audit outcome

9.3. Meter data used to derive volume information (Clause 3(5) Schedule 15.2)

Code reference

Clause 3(5) Schedule 15.2

Code related audit information

All meter data that is used to derive volume information must not be rounded or truncated from the stored data from the metering installation.

Audit observation

FND0012

The interconnection point is rarely open. Nelson Electricity and Contact confirmed that it has not been used during the audit period, and zeros have been submitted for reconciliation.

HVN0331

Derivation of volumes was reviewed as part of the EMS agent audit for HVN0331.

Audit commentary

FND0012

The interconnection point is rarely open. Nelson Electricity and Contact confirmed that it has not been used during the audit period, and zeros have been submitted for reconciliation. During Contact's reconciliation participant audit, I checked a sample of submission data and confirmed that zero was correctly reported.

HVN0331

Compliance is recorded in the EMS agent audit report. I compared the raw meter data to submission data for HVN0331 for March and April 2024, which confirmed that data is not rounded until the point of submission creation.

Audit outcome

Compliant

9.4. Half hour estimates (Clause 15 Schedule 15.2)

Code reference

Clause 15 Schedule 15.2

Code related audit information

If a reconciliation participant is unable to interrogate an electronically interrogated metering installation before the deadline for providing submission information, the submission to the reconciliation manager must be the reconciliation participant's best estimate of the quantity of electricity that was purchased or sold in each trading period during any applicable consumption period for that metering installation.

The reconciliation participant must use reasonable endeavours to ensure that estimated submission information is within the percentage specified by the Authority.

Audit observation

The estimation process was reviewed. Information on temporary and permanent estimates between June 2022 and May 2024 was requested.

Audit commentary

FND0012

The interconnection point is rarely open. Nelson Electricity and Contact confirmed that it has not been used during the audit period, and zeros have been submitted for reconciliation. During Contact's reconciliation participant audit, I checked a sample of submission data and confirmed that zero was correctly reported.

If the connection point is open and SCADA data is unavailable, Contact has processes to estimate missing the data. These processes were checked during Contact's reconciliation participant audit and are compliant.

HVN0331

Compliance is recorded in the EMS agent audit report.

Three trading periods were estimated on 9 April 2024 due to a power outage alarm triggering estimation. The data was replaced with actuals during the audit and will be washed up in revision three.

Audit outcome

Compliant

9.5. NHH metering information data validation (Clause 16 Schedule 15.2)

Code reference

Clause 16 Schedule 15.2

Code related audit information

Each validity check of non half hour meter readings and estimated readings must include the following:

16(2)(a) - confirmation that the meter reading or estimated reading relates to the correct ICP, meter, and register,

16(2)(b) - checks for invalid dates and times,

16(2)(c) - confirmation that the meter reading or estimated reading lies within an acceptable range compared with the expected pattern, previous pattern, or trend,

16(2)(d) - confirmation that there is no obvious corruption of the data, including unexpected zero values.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

9.6. Electronic meter readings and estimated readings (Clause 17 Schedule 15.2)

Code reference

Clause 17 Schedule 15.2

Code related audit information

Each validity check of electronically interrogated meter readings and estimate readings 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 this data can be used for any purpose under the Code.

Each validity check of a meter reading obtained by electronic interrogation, or an estimated reading must include:

17(4)(a) - checks for missing data,

17(4)(b) - checks for invalid dates and times,

17(4)(c) - checks of unexpected zero values,

17(4)(d) - comparison with expected or previous flow patterns,

17(4)(e) - comparisons of meter readings with data on any data storage device registers that are available,

17(4)(f) - a review of the meter and data storage device event log for any event that could have affected the integrity of metering data,

17(4)(g) – a review of the relevant metering data where there is an event that could have affected the integrity of the metering data.

If there is an event that could affect the integrity of the metering data (including events reported by MEPs but excluding where the MEP is responsible for investigating and remediating the event) the reconciliation must investigate and remediate any events.

If the event may affect the integrity or operation of the metering installation the reconciliation participant must notify the metering equipment provider.

Audit observation

Validation processes were reviewed as part of the EMS agent audit. Information on meter events that could affect meter accuracy between June 2022 and May 2024 was requested.

Audit commentary

FND0112

FND0012 is not metered.

HVN0331

Compliance is recorded in the EMS agent audit report. No meter events that could affect meter accuracy that occurred during the period reviewed.

Audit outcome

Compliant

10. PROVISION OF METERING INFORMATION TO THE GRID OWNER IN ACCORDANCE WITH SUBPART 4 OF PART 13 (CLAUSE 15.38(1)(F))

10.1. Generators to provide HHR metering information (Clause 13.136)

Code reference

Clause 13.136

Code related audit information

The generator (and/or embedded generator) must provide to the grid owner connected to the local network in which the embedded generator is located, half hour metering information in accordance with clause 13.138 in relation to generating plant that is subject to a dispatch instruction:

- that injects electricity directly into a local network; or
- if the meter configuration is such that the electricity flows into a local network without first passing through a grid injection point or grid exit point metering installation.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

10.2. Unoffered & intermittent generation provision of metering information (Clause 13.137)

Code reference

Clause 13.137

Code related audit information

Each generator must provide the relevant grid owner half-hour metering information for:

- any unoffered generation from a generating station with a point of connection to the grid 13.137(1)(a),
- any electricity supplied from an intermittent generating station with a point of connection to the grid. 13.137(1)(b).

The generator must provide the relevant grid owner with the half-hour metering information required under this clause in accordance with the requirements of Part 15 for the collection of that generator's volume information (clause 13.137(2)).

If such half-hour metering information is not available, the generator must provide the pricing manager and the relevant grid owner a reasonable estimate of such data (clause 13.137(3)).

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

10.3. Loss adjustment of HHR metering information (Clause 13.138)

Code reference

Clause 13.138

Code related audit information

The generator must provide the information required by clauses 13.136 and 13.137,

13.138(1)(a)- adjusted for losses (if any) relative to the grid injection point or, for embedded generators the grid exit point, at which it offered the electricity,

13.138(1)(b)- in the manner and form that the pricing manager stipulates,

13.138(1)(c)- by 0500 hours on a trading day for each trading period of the previous trading day.

The generator must provide the half-hour metering information required under this clause in accordance with the requirements of Part 15 for the collection of the generator's volume information.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

10.4. Notification of the provision of HHR metering information (Clause 13.140)

Code reference

Clause 13.140

Code related audit information

If the generator provides half-hourly metering information to a grid owner under clauses 13.136 to 13.138, or 13.138A, it must also, by 0500 hours of that day, advise the relevant grid owner.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

11. PROVISION OF SUBMISSION INFORMATION FOR RECONCILIATION

11.1. Buying and selling notifications (Clause 15.3)

Code reference

Clause 15.3

Code related audit information

Unless an embedded generator has given a notification in respect of the point of connection under clause 15.3, a trader must give notice to the reconciliation manager if it is to commence or cease trading electricity at a point of connection using a profile with a profile code other than HHR, RPS, UML, EG1, or PV1 at least five business days before commencing or ceasing trader.

The notification must comply with any procedures or requirements specified by the reconciliation manager.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

11.2. Calculation of ICP days (Clause 15.6)

Code reference

Clause 15.6

Code related audit information

Each retailer and direct purchaser (excluding direct consumers) must deliver a report to the reconciliation manager detailing the number of ICP days for each NSP for each submission file of submission information in respect of:

15.6(1)(a) - submission information for the immediately preceding consumption period, by 1600 hours on the 4th business day of each reconciliation period,

15.6(1)(b) - revised submission information provided in accordance with clause 15.4(2), by 1600 hours on the 13th business day of each reconciliation period.

The ICP days information must be calculated using the data contained in the retailer or direct purchaser's reconciliation system when it aggregates volume information for ICPs into submission information.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

11.3. Electricity supplied information provision to the reconciliation manager (Clause 15.7)

Code reference

Clause 15.7

Code related audit information

A retailer must deliver to the reconciliation manager its total monthly quantity of electricity supplied for each NSP, aggregated by invoice month, for which it has provided submission information to the reconciliation manager, including revised submission information for that period as non- loss adjusted values in respect of:

15.7(a) - submission information for the immediately preceding consumption period, by 1600 hours on the 4th business day of each reconciliation period,

15.7(b) - revised submission information provided in accordance with clause 15.4(2), by 1600 hours on the 13th business day of each reconciliation period.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

11.4. HHR aggregates information provision to the reconciliation manager (Clause 15.8)

Code reference

Clause 15.8

Code related audit information

A retailer or direct purchaser (excluding direct consumers) must deliver to the reconciliation manager its total monthly quantity of electricity supplied for each half hourly metered ICP for which it has provided submission information to the reconciliation manager, including:

15.8(a) - submission information for the immediately preceding consumption period, by 1600 hours on the 4th business day of each reconciliation period,

15.8(b) - revised submission information provided in accordance with clause 15.4(2), by 1600 hours on the 13th business day of each reconciliation period.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

12. SUBMISSION COMPUTATION

12.1. Daylight saving adjustment (Clause 15.36)

Code reference

Clause 15.36

Code related audit information

The reconciliation participant must provide submission information to the reconciliation manager that is adjusted for NZDT using one of the techniques set out in clause 15.36(3) specified by the Authority.

Audit observation

This is covered in the EMS agent audit report.

Audit commentary

FND0112

FND0012 is not metered.

HVN0331

Compliance is recorded in the EMS agent audit report.

Audit outcome

Compliant

12.2. Creation of submission information (Clause 15.4)

Code reference

Clause 15.4

Code related audit information

By 1600 hours on the 4th business day of each reconciliation period, the reconciliation participant must deliver submission information to the reconciliation manager for all NSPs for which the reconciliation participant is recorded in the registry as having traded electricity during the consumption period immediately before that reconciliation period (in accordance with Schedule 15.3).

By 1600 hours on the 13th business day of each reconciliation period, the reconciliation participant must deliver submission information to the reconciliation manager for all points of connection for which the reconciliation participant is recorded in the registry as having traded electricity during any consumption period being reconciled in accordance with clauses 15.27 and 15.28, and in respect of which it has obtained revised submission information (in accordance with Schedule 15.3).

Audit observation

This clause refers to ICPs. This audit is for NSP volumes only.

Audit commentary

This clause refers to ICPs. This audit is for NSP volumes only.

Audit outcome

12.3. Allocation of submission information (Clause 15.5)

Code reference

Clause 15.5

Code related audit information

In preparing and submitting submission information, the reconciliation participant must allocate volume information for each ICP to the NSP indicated by the data held in the registry for the relevant consumption period at the time the reconciliation participant assembles the submission information. Volume information must be derived in accordance with schedule 15.2.

However, if, in relation to a point of connection at which the reconciliation participant trades electricity, a notification given by an embedded generator under clause 15.13 for an embedded generating station is in force, the reconciliation participant is not required to comply with the above in relation to electricity generated by the embedded generating station.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

12.4. Grid owner volumes information (Clause 15.9)

Code reference

Clause 15.9

Code related audit information

The participant (if a grid owner) must deliver to the reconciliation manager for each point of connection for all of its GXPs, the following:

- submission information for the immediately preceding consumption period, by 1600 hours on the 4th business day of each reconciliation period (clause 15.9(a)),
- revised submission information provided in accordance with clause 15.4(2), by 1600 hours on the 13th business day of each reconciliation period (clause 15.9(b)).

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

12.5. Provision of NSP submission information (Clause 15.10)

Code reference

Clause 15.10

Code related audit information

The participant (if a local or embedded network owner) must provide to the reconciliation manager for each NSP for which the participant has given a notification under clause 25(1) Schedule 11.1 (which relates to the creation, decommissioning, and transfer of NSPs) the following:

- submission information for the immediately preceding consumption period, by 1600 hours on the 4th business day of each reconciliation period (clause 15.10(a)),
- revised submission information provided in accordance with clause 15.4(2), by 1600 hours on the 13th business day of each reconciliation period (clause 15.10(b)).

Audit observation

Provision of NSP submission information was reviewed as part of the EMS agent audit and Contact reconciliation participant audit. A sample of submission information was checked, and alleged breaches were requested from the Authority.

Audit commentary

Any instances of incorrect, incomplete, and misleading information are resolved as they arise, and the EMS and Contact agent processes were found to be compliant. I found all information was complete, accurate and not misleading, or was updated as soon as practicable once errors were found. No breaches were recorded for late provision of submission information.

FND0112

Contact provides NSP volumes for the FND0012 interconnection point between the TASM and Nelson Electricity networks. The interconnection point is rarely open, and zero is usually reported. If the interconnection point is used Nelson Electricity provides SCADA data to Contact for use in the submissions.

During Contact's reconciliation participant audit, I checked a sample of submission data and confirmed that zero was correctly reported. There were no estimates, corrections or issues during the audit period.

As stated in the previous audit, Nelson Electricity have advised that the need for the 11kv interconnections has reduced significantly since Network Tasman installed a second 33kV supply to the north of Nelson in 2014, and the interconnection point NSP FND0112 has not been used recently. Nelson Electricity may require an additional 11kV interconnection point to be used on the network, in which case an exemption will be required. I recommend that Nelson Electricity apply to the Electricity Authority for an exemption to replace expired exemption number 228 to ensure they are able to quantify electricity in accordance with the code, as it is the distributor's responsibility to ensure that electricity is quantified by a metering installation for an NSP where required.

Description	Recommendation	Audited party comment	Remedial action
Apply for exemption for additional interconnection point	Nelson Electricity apply for an exemption to replace expired exemption number 228 to ensure they are able to quantify electricity in accordance with the code.	Nelson Electricity is reviewing the need to apply for the exemption with neighbouring network Network Tasman to replace the expired exemption number 228.	Investigating

HVN0031

Compliance is recorded in the EMS audit report.

I compared the raw meter data to submission data for HVN0331 for March and April 2024, which confirmed that the process to generate submission data is operating as expected. The submission data was consistent with the meter data, except for three trading periods which were estimated on 9 April 2024 due to a power outage alarm triggering estimation. The data was immediately replaced with actuals when identified during the audit, and will be washed up in revision three.

EMS has processes to automatically create estimates, and replace estimates with actual data if it becomes available at a later date, but in this case the estimates were unexpectedly applied due to the non-standard metering configuration for this NSP.

Audit outcome

Compliant

12.6. Grid connected generation (Clause 15.11)

Code reference

Clause 15.11

Code related audit information

The participant (if a grid connected generator) must deliver to the reconciliation manager for each of its points of connection, the following:

- submission information for the immediately preceding consumption period, by 1600 hours on the 4th business day of each reconciliation period (clause 15.11(a)),
- revised submission information provided in accordance with clause 15.4(2), by 1600 hours on the 13th business day of each reconciliation period (clause 15.11(b)).

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

12.7. Accuracy of submission information (Clause 15.12)

Code reference

Clause 15.12

Code related audit information

If the reconciliation participant has submitted information and then subsequently obtained more accurate information, the participant must provide the most accurate information available to the reconciliation manager or participant, as the case may be, at the next available opportunity for submission (in accordance with clauses 15.20A, 15.27, and 15.28).

Audit observation

Accuracy of NSP submission information was reviewed as part of the EMS audit. A sample of submission information was checked against meter data, and alleged breaches were requested from the Authority.

Audit commentary

Any instances of incorrect, incomplete, and misleading information are resolved as they arise, and the EMS and Contact agent processes were found to be compliant. I found all information was complete, accurate and not misleading, or was updated as soon as practicable once errors were found. No breaches were recorded for late provision of submission information.

FND0012

No inaccurate information was identified for FND0012. The interconnection point is rarely open, and Nelson Electricity and Contact confirmed that it has not been used during the audit period and zeros have been submitted for reconciliation.

HVN0331

I compared the raw meter data to submission data for HVN0331 for March and April 2024, which confirmed that the process to generate submission data is operating as expected. The submission data was consistent with the meter data, except for three trading periods which were estimated on 9 April 2024 due to a power outage alarm triggering estimation. The data was immediately replaced with actuals when identified during the audit, and will be washed up in revision three.

EMS has processes to automatically create estimates, and replace estimates with actual data if it becomes available at a later date, but in this case the estimates were unexpectedly applied due to the non-standard metering configuration for this NSP.

Audit outcome

Compliant

12.8. Permanence of meter readings for reconciliation (Clause 4 Schedule 15.2)

Code reference

Clause 4 Schedule 15.2

Code related audit information

Only volume information created using validated meter readings, or if such values are unavailable, permanent estimates, has permanence within the reconciliation processes (unless subsequently found to be in error).

The relevant reconciliation participant must, at the earliest opportunity, and no later than the month 14 revision cycle, replace volume information created using estimated readings with volume information created using validated meter readings.

If, despite having used reasonable endeavours for at least 12 months, a reconciliation participant has been unable to obtain a validated meter reading, the reconciliation participant must replace volume information created using an estimated reading with volume information created using a permanent estimate in place of a validated meter reading.

Audit observation

I determined whether any estimates remained at revision 14.

Audit commentary

FND0012

Confirmed zero data was provided for all trading periods.

HVN0331

All estimates identified during the audit period were replaced with actuals.

Audit outcome

Compliant

12.9. Reconciliation participants to prepare information (Clause 2 Schedule 15.3)

Code reference

Clause 2 Schedule 15.3

Code related audit information

If a reconciliation participant prepares submission information for each NSP for the relevant consumption periods in accordance with the Code, such submission information for each ICP must comprise the following:

- half hour volume information for the total metered quantity of electricity for each ICP notified in accordance with clause 11.7(2) for which there is a category 3 or higher metering installation (clause 2(1)(a))for each ICP about which information is provided under clause 11.7(2) for which there is a category 1 or category 2 metering installation (clause 2(1)(b)):
 - a) any half hour volume information for the ICP; or
 - b) any non half hour volumes information calculated under clauses 4 to 6 (as applicable),
 - c) unmetered load quantities for each ICP that has unmetered load associated with it 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 (clause 2(1)(c)),
- to create non half hour submission information a reconciliation participant must only use information that is dependent on a control device if (clause 2(2)):
 - a) the certification of the control device is recorded in the registry; or
 - b) the metering installation in which the control device is location has interim certification,
- to create submission information for a point of connection the reconciliation participant must apply to the raw meter data (clause 2(3):
 - a) for each ICP, the compensation factor that is recorded in the registry (clause 2(3)(a)),
 - b) for each NSP the compensation factor that is recorded in the metering installations most recent certification report (clause 2(3)(b))

Audit observation

This clause refers to ICPs. This audit is for NSP volumes only.

Audit commentary

This clause refers to ICPs. This audit is for NSP volumes only.

Audit outcome

Not applicable

12.10. Historical estimates and forward estimates (Clause 3 Schedule 15.3)

Code reference

Clause 3 Schedule 15.3

Code related audit information

For each ICP that has a non-half hour metering installation, volume information derived from validated meter readings, estimated readings, or permanent estimates must be allocated to consumption periods using the following techniques to create historical estimates and forward estimates (clause 3(1)).

Each estimate that is a forward estimate or a historical estimate must clearly be identified as such (clause 3(2)).

If validated meter readings are not available for the purpose of clauses 4 and 5, permanent estimates may be used in place of validated meter readings. (clause 3(3))

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

12.11. Historical estimate process (Clause 4 and 5 Schedule 15.3)

Code reference

Clause 4 and 5 Schedule 15.3

Code related audit information

The methodology outlined in clause 4 of Schedule 15.3 must be used when preparing historic estimates of volume information for each ICP when the relevant seasonal adjustment shape is available.

If a seasonal adjustment shape is not available, the methodology for preparing an historical estimate of volume information for each ICP must be the same as in clause 4, except that the relevant quantities kWh_{Px} must be prorated as determined by the reconciliation participant using its own methodology or on a flat shape basis using the relevant number of days that are within the consumption period and within the period covered by kWh_{Px} .

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

12.12. Forward estimate process (Clause 6 Schedule 15.3)

Code reference

Clause 6 Schedule 15.3

Code related audit information

Forward estimates may be used only in respect of any period for which an historical estimate cannot be calculated.

The methodology used for calculating a forward estimate may be determined by the reconciliation participant, only if it ensures that the accuracy is within the percentage of error specified by the Authority.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

Not applicable

12.13. Compulsory meter reading after profile change (Clause 7 Schedule 15.3)

Code reference

Clause 7 Schedule 15.3

Code related audit information

If the reconciliation participant changes the profile associated with a meter, it must, when determining the volume information for that meter and its respective ICP, use a validated meter reading or permanent estimate on the day on which the profile change is to take effect.

The reconciliation participant must use the volume information from that validated meter reading or permanent estimate in calculating the relevant historical estimates of each profile for that meter.

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

13. SUBMISSION FORMAT AND TIMING

13.1. Provision of submission information to the RM (Clause 8 Schedule 15.3)

Code reference

Clause 8 Schedule 15.3

Code related audit information

For each category 3 of higher metering installation, a reconciliation participant must provide half hour submission information to the reconciliation manager.

For each category 1 or category 2 metering installation, a reconciliation participant must provide to the reconciliation manager:

- Half hour submission information; or
- Non half hour submission information; or
- A combination of half hour submission information and non half hour submission information

However, a reconciliation participant may instead use a profile if:

- The reconciliation participant is using a profile approved in accordance with clause Schedule 15.5; and
- The approved profile allows the reconciliation participant to provide half hour submission information from a non half hour metering installation; and
- The reconciliation participant provides submission information that complies with the requirements set out in the approved profile.

Half hour submission information provided to the reconciliation manager must be aggregated to the following levels:

- NSP code,
- reconciliation type,
- profile,
- loss category code,
- flow direction,
- dedicated NSP,
- trading period.

The non half hour submission information that a reconciliation participant submits must be aggregated to the following levels:

- NSP code,
- reconciliation type,
- profile,
- loss category code,
- flow direction,
- dedicated NSP,
- consumption period or day.

Audit observation

Processes to provide submission information were reviewed.

Audit commentary

FND0012

During Contact's reconciliation participant audit, a sample of submission data was checked and confirmed to be compliant.

HVN0331

Compliance is recorded in the EMS audit report, and a review of submission data for March and April 2024 confirmed it was compliant.

Audit outcome

Compliant

13.2. Reporting resolution (Clause 9 Schedule 15.3)

Code reference

Clause 9 Schedule 15.3

Code related audit information

When reporting submission information, the number of decimal places must be rounded to not more than two decimal places.

If the unrounded digit to the right of the second decimal place is greater than or equal to five, the second digit is rounded up, and

If the digit to the right of the second decimal place is less than five, the second digit is unchanged.

Audit observation

Reporting resolution was reviewed.

Audit commentary

FND0012

During Contact's reconciliation participant audit, a sample of submission data was checked and confirmed to be compliant.

HVN0331

Compliance is recorded in the EMS audit report. Review of submission information for December 2023 and January 2024 confirmed submission data was rounded to no more than two decimal places.

Audit outcome

Compliant

13.3. Historical estimate reporting to RM (Clause 10 Schedule 15.3)

Code reference

Clause 10 Schedule 15.3

Code related audit information

By 1600 hours on the 13th business day of each reconciliation period the reconciliation participant must report to the reconciliation manager the proportion of historical estimates per NSP contained within its non half hour submission information.

The proportion of submission information per NSP that is comprised of historical estimates must (unless exceptional circumstances exist) be:

- at least 80% for revised data provided at the month 3 revision (clause 10(3)(a)),
- at least 90% for revised data provided at the month 7 revision (clause 10(3)(b)),
- 100% for revised data provided at the month 14 revision. (clause 10(3)(c)).

Audit observation

Not applicable

Audit commentary

Not applicable

Audit outcome

CONCLUSION

FND0012

Contact provides NSP volumes for the FND0012 interconnection point between the TASM and Nelson Electricity networks. The interconnection point is rarely open. Nelson Electricity and Contact confirmed that it has not been used during the audit period, and zeros have been submitted for reconciliation. If the interconnection point is used Nelson Electricity provides SCADA data to Contact for use in the submissions.

HVN0331

Contact is the trader for HVN0331. EMS collects and validates the meter data, and prepares submission information as an agent. The EMS agent audit report records compliance for all activities performed on behalf of Nelson Electricity.

I confirmed the following as part of this audit:

- no defective meters have been identified during the audit period,
- no correction of volume data has occurred during the audit period, and
- no clock synchronisation errors outside the allowable tolerances have occurred during the audit period.

Three trading periods were estimated on 9 April 2024 due to a power outage alarm triggering estimation. The data was replaced with actuals during the audit and will be washed up in revision three.

Conclusion

Compliance was confirmed for all activities that Contact and EMS complete on Nelson Electricity's behalf, and one recommendation is made. I recommend that the next audit be due in 24 months, which is the maximum period allowable under the Code.

PARTICIPANT RESPONSE

Nelson Electricity is pleased with the audit findings.