

**ELECTRICITY INDUSTRY PARTICIPATION CODE
RECONCILIATION PARTICIPANT AUDIT REPORT**

For

AWHITU WINDFARMS LTD

Prepared by: Ewa Glowacka – TEG & Associates

Date audit commenced: 18 June 2020

Date audit report completed: 23 June 2020

Audit report due date: 20-Jun-20

TABLE OF CONTENTS

Executive summary	5
Audit summary	6
Non-compliances	6
Recommendations	6
Issues 6	
1. Administrative	7
1.1. Exemptions from Obligations to Comply with Code (Section 11)	7
1.2. Structure of Organisation	7
1.3. Persons involved in this audit	7
1.4. Use of Agents (Clause 15.34)	7
1.5. Hardware and Software	8
1.6. Breaches or Breach Allegations	8
1.7. ICP Data	8
1.8. Authorisation Received	9
1.9. Scope of Audit	9
1.10. Summary of previous audit	10
2. Operational Infrastructure	11
2.1. Relevant information (Clause 10.6, 11.2, 15.2)	11
2.2. Provision of information (Clause 15.35)	11
2.3. Data transmission (Clause 20 Schedule 15.2)	11
2.4. Audit trails (Clause 21 Schedule 15.2)	12
2.5. Retailer responsibility for electricity conveyed - participant obligations (Clause 10.4)	13
2.6. Retailer responsibility for electricity conveyed - access to metering installations (Clause 10.7(2),(4),(5) and (6))	13
2.7. Physical location of metering installations (Clause 10.35(1)&(2))	14
2.8. Trader contracts to permit assignment by the Authority (Clause 11.15B)	14
2.9. Connection of an ICP (Clause 10.32)	15
2.10. Temporary Electrical Connection of an ICP (Clause 10.33)	16
2.11. Electrical Connection of Point of Connection (Clause 10.33A)	16
2.12. Arrangements for line function services (Clause 11.16)	17
2.13. Arrangements for metering equipment provision (Clause 10.36)	17
3. Maintaining registry information	19
3.1. Obtaining ICP identifiers (Clause 11.3)	19
3.2. Providing registry information (Clause 11.7(2))	19
3.3. Changes to registry information (Clause 10 Schedule 11.1)	20
3.4. Trader responsibility for an ICP (Clause 11.18)	20
3.5. Provision of information to the registry manager (Clause 9 Schedule 11.1)	21
3.6. ANZSIC codes (Clause 9 (1)(k) of Schedule 11.1)	21
3.7. Changes to unmetered load (Clause 9(1)(f) of Schedule 11.1)	22
3.8. Management of “active” status (Clause 17 Schedule 11.1)	22
3.9. Management of “inactive” status (Clause 19 Schedule 11.1)	23
3.10. ICPs at new or ready status for 24 months (Clause 15 Schedule 11.1)	23
4. Performing customer and embedded generator switching	25
4.1. Inform registry of switch request for ICPs - standard switch (Clause 2 Schedule 11.3)	25

4.2.	Losing trader response to switch request and event dates - standard switch (Clauses 3 and 4 Schedule 11.3)	25
4.3.	Losing trader must provide final information - standard switch (Clause 5 Schedule 11.3)	26
4.4.	Retailers must use same reading - standard switch (Clause 6(1) and 6A Schedule 11.3)	26
4.5.	Non-half hour switch event meter reading - standard switch (Clause 6(2) and (3) Schedule 11.3)	27
4.6.	Disputes - standard switch (Clause 7 Schedule 11.3)	27
4.7.	Gaining trader informs registry of switch request - switch move (Clause 9 Schedule 11.3)	28
4.8.	Losing trader provides information - switch move (Clause 10(1) Schedule 11.3)	29
4.9.	Losing trader determines a different date - switch move (Clause 10(2) Schedule 11.3)	29
4.10.	Losing trader must provide final information - switch move (Clause 11 Schedule 11.3)	30
4.11.	Gaining trader changes to switch meter reading - switch move (Clause 12 Schedule 11.3)	30
4.12.	Gaining trader informs registry of switch request - gaining trader switch (Clause 14 Schedule 11.3)	31
4.13.	Losing trader provision of information - gaining trader switch (Clause 15 Schedule 11.3)	32
4.14.	Gaining trader to advise the registry manager - gaining trader switch (Clause 16 Schedule 11.3)	32
4.15.	Withdrawal of switch requests (Clauses 17 and 18 Schedule 11.3)	33
4.16.	Metering information (Clause 21 Schedule 11.3)	34
4.17.	Switch saving protection (Clause 11.15AA to 11.15AB)	34
5.	Maintenance of unmetered load	36
5.1.	Maintaining shared unmetered load (Clause 11.14)	36
5.2.	Unmetered threshold (Clause 10.14 (2)(b))	36
5.3.	Unmetered threshold exceeded (Clause 10.14 (5))	37
5.4.	Distributed unmetered load (Clause 11 Schedule 15.3, Clause 15.37B)	37
6.	Gathering raw meter data	39
6.1.	Electricity conveyed & notification by embedded generators (Clause 10.13, Clause 10.24 and 15.13)	39
6.2.	Responsibility for metering at GIP (Clause 10.26 (6), (7) and (8))	39
6.3.	Certification of control devices (Clause 33 Schedule 10.7 and clause 2(2) Schedule 15.3)	40
6.4.	Reporting of defective metering installations (Clause 10.43(2) and (3))	40
6.5.	Collection of information by certified reconciliation participant (Clause 2 Schedule 15.2)	41
6.6.	Derivation of meter readings (Clause 3(1), 3(2) and 5 Schedule 15.2)	42
6.7.	NHH meter reading application (Clause 6 Schedule 15.2)	42
6.8.	Interrogate meters once (Clause 7(1) and (2) Schedule 15.2)	43
6.9.	NHH meters interrogated annually (Clause 8(1) and (2) Schedule 15.2)	43
6.10.	NHH meters 90% read rate (Clause 9(1) and (2) Schedule 15.2)	44
6.11.	NHH meter interrogation log (Clause 10 Schedule 15.2)	44
6.12.	HHR data collection (Clause 11(1) Schedule 15.2)	45
6.13.	HHR interrogation data requirement (Clause 11(2) Schedule 15.2)	45
6.14.	HHR interrogation log requirements (Clause 11(3) Schedule 15.2)	46
7.	Storing raw meter data	47
7.1.	Trading period duration (Clause 13 Schedule 15.2)	47
7.2.	Archiving and storage of raw meter data (Clause 18 Schedule 15.2)	47
7.3.	Non metering information collected / archived (Clause 21(5) Schedule 15.2)	47
8.	Creating and managing (including validating, estimating, storing, correcting and archiving) volume information	49
8.1.	Correction of NHH meter readings (Clause 19(1) Schedule 15.2)	49

8.2.	Correction of HHR metering information (Clause 19(2) Schedule 15.2)	49
8.3.	Error and loss compensation arrangements (Clause 19(3) Schedule 15.2)	50
8.4.	Correction of HHR and NHH raw meter data (Clause 19(4) and (5) Schedule 15.2)	50
9.	Estimating and validating volume information	52
9.1.	Identification of readings (Clause 3(3) Schedule 15.2)	52
9.2.	Derivation of volume information (Clause 3(4) Schedule 15.2)	52
9.3.	Meter data used to derive volume information (Clause 3(5) Schedule 15.2)	52
9.4.	Half hour estimates (Clause 15 Schedule 15.2)	53
9.5.	NHH metering information data validation (Clause 16 Schedule 15.2)	53
9.6.	Electronic meter readings and estimated readings (Clause 17 Schedule 15.2)	54
10.	Provision of metering information to the GRID OWNER in accordance with subpart 4 of Part 13 (clause 15.38(1)(f))	56
10.1.	Generators to provide HHR metering information (Clause 13.136)	56
10.2.	Unoffered & intermittent generation provision of metering information (Clause 13.137)	56
10.3.	Loss adjustment of HHR metering information (Clause 13.138)	57
10.4.	Notification of the provision of HHR metering information (Clause 13.140)	57
11.	Provision of submission information for reconciliation	58
11.1.	Buying and selling notifications (Clause 15.3)	58
11.2.	Calculation of ICP days (Clause 15.6)	58
11.3.	Electricity supplied information provision to the reconciliation manager (Clause 15.7)	59
11.4.	HHR aggregates information provision to the reconciliation manager (Clause 15.8)	59
12.	Submission computation	61
12.1.	Daylight saving adjustment (Clause 15.36)	61
12.2.	Creation of submission information (Clause 15.4)	61
12.3.	Allocation of submission information (Clause 15.5)	61
12.4.	Grid owner volumes information (Clause 15.9)	62
12.5.	Provision of NSP submission information (Clause 15.10)	62
12.6.	Grid connected generation (Clause 15.11)	63
12.7.	Accuracy of submission information (Clause 15.12)	63
12.8.	Permanence of meter readings for reconciliation (Clause 4 Schedule 15.2)	64
12.9.	Reconciliation participants to prepare information (Clause 2 Schedule 15.3)	64
12.10.	Historical estimates and forward estimates (Clause 3 Schedule 15.3)	65
12.11.	Historical estimate process (Clause 4 and 5 Schedule 15.3)	66
12.12.	Forward estimate process (Clause 6 Schedule 15.3)	66
12.13.	Compulsory meter reading after profile change (Clause 7 Schedule 15.3)	67
13.	Submission format and timing	68
13.1.	Provision of submission information to the RM (Clause 8 Schedule 15.3)	68
13.2.	Reporting resolution (Clause 9 Schedule 15.3)	69
13.3.	Historical estimate reporting to RM (Clause 10 Schedule 15.3)	69
Conclusion	70
Participant response	70

EXECUTIVE SUMMARY

This reconciliation participant audit was performed at the request of Awhitu Windfarms Ltd to support their application for certification, in accordance with clause 4 of Schedule 15.1 of The Code 2010. The relevant clause audited is as required by the Guidelines for Reconciliation Participants Audits V 7.2 issued by the Electricity Authority.

Awhitu Windfarms Ltd (AWFL), is a generator from a privately-owned wind farm on the Awhitu peninsula. This is situated near Waiuku on the west coast of south Auckland. AWFL has also been approved as a reconciliation participant for the purposes of 3 to 4 ICPs under the participant code MYST. The retail arm is called Mystic Winds (MYST).

This audit covers both the generator and retail activity. At the time of this audit there were two ICPs belonging to an associated property, traded under MYST. JC Consulting has been engaged in the capacity of an agent, to conduct all switching, registry, and reconciliation for two NHH ICPs.

EMS have been engaged, in the capacity of an agent, to conduct all registry and reconciliation of generation information (AWFL). As AWFL are a generator only, there will be no switching. A copy of the most recent EMS audit dated 4 July 2019 was used to determine compliance. We also requested that EMS to provide a copy of raw data for May 2020 and HHR submissions files (generation) for May 2020.

As the two NHH ICPs were only switched in June 2020, there is no consumption to be investigated. Where compliance is noted this indicates that, if JC Consulting processes are followed, they should meet the required compliance with the Code. It is based on outcomes of audits of small retailers conducted by us in the last few months.

Momentous Consulting has been assisting Awhitu Windfarms Ltd, since the beginning of October 2019, to meet all the initial requirements by providing guidance, assistance, and knowledge to develop the required processes to trade.

No non compliances were identified during this audit. Through discussion and an overview of the agents processes we have every confidence that MYST/AWFL will be able to provide accurate and complete data and have knowledge of their responsibilities under the Code.

The date of the next audit is determined by the Electricity Authority and is dependent on the level of compliance during this audit. Table 1 of the Guidelines for Reconciliation Participant audit provides some guidance on this matter. The Future Risk Rating score is 0 which results in an indicative audit frequency of 36 months. We agree with the result.

We thank Awhitu Windfarms for their full and complete cooperation in this audit.

AUDIT SUMMARY

NON-COMPLIANCES

Subject	Section	Clause	Non Compliance	Controls	Audit Risk Rating	Breach Risk Rating	Remedial Action
HHR aggregates information provision to the reconciliation manager	11.4	15.8	HHRAGGR files do not contain electricity supplied information	Strong	Low	1	Not required. The Code change required a line up with RN file specification. Breach risk rating excluded from total
Future Risk Rating						0	
Next audit date						36 months	

Future risk rating	0-1	1-3	4-15	16-40	41-55	56+
Indicative audit frequency	36 months	24 months	18 months	12months	6 months	3 months

RECOMMENDATIONS

Subject	Section	Description	Recommendation
			Nil

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

Awhitu Windfarms does not have any exemptions granted to exempt them from compliance with all or any of the clauses.

Audit commentary

Awhitu Windfarms did not apply for any exemptions. We checked the Electricity Authority website and confirm that there are no exemptions in place.

1.2. Structure of Organisation

The company is registered on the companies register with one director (Mrs Sturgess).

1.3. Persons involved in this audit

Name	Title	Company
John Sturgess	Chief Operating Officer	Awhitu Windfarms Ltd
Chrissy Burrows	Director/Consultant	Momentous Consulting Ltd
Ian Martin	Metering Services Manager	EMS
John Candy	Director	JC Consulting Ltd
Ewa Glowacka	Electricity Authority Approved Auditor	TEG & Associates Ltd

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

Awhitu Windfarms engages two agents.

EMS have been engaged to conduct all switching, registry, and reconciliation of generation information. A copy of the most recent EMS audit dated 4 July 2019 was used to determine compliance. The report is

older than 7 months but we were assured by EMS that no changes were made to their processes and system which could have negative impact on AWFL's compliance.

JC Consulting has been engaged to conduct all switching, registry, and reconciliation for two NHH ICPs.

Audit commentary

A copy of the most recent EMS audit dated 4 July 2019 was used to determine compliance. This year we have audited JC Consulting processes as a part of the reconciliation audits of a few small retailers. We found the processes compliant.

Agreements have been put in place with John Candy Consulting Ltd and EMS.

1.5. Hardware and Software

JC Consulting uses the following software:

- Switching is conducted via web interface.
- Access Database (RM TOOL) provided and run by JC Consulting for NHH submissions

EMS has provided a list of all manufacturers of hardware and software that assist with or are used in the processes to be audited

- Hardware Blade Server hardware
- Software List
 - MV 90 interrogation software
 - GMMS is a bespoke system, which is supported by YouDo.
 - The database used is PostgreSQL
 - The application server layer is Ruby on Rails

1.6. Breaches or Breach Allegations

There were no breaches or breach allegations lodged in the period covered by this audit.

1.7. ICP Data

Metering Category	(18/06/2020)	(date)	(date)
1	2		
2	0		
3	0		
4	0		
5	1		
9	0		

Generation ICP is 1099578842CN302

NHH ICPs are 0007155140CN800 and 0071551401CNEF2

Status	Number of ICPs (18/06/2020)	Number of ICPs (date)	Number of ICPs (date)
Active (2,0)	3		

Inactive – new connection in progress (1,12)	0		
Inactive – electrically disconnected vacant property (1,4)	0		
Inactive – electrically disconnected remotely by AMI meter (1,7)	0		
Inactive – electrically disconnected at pole fuse (1,8)	0		
Inactive – electrically disconnected due to meter disconnected (1,9)	0		
Inactive – electrically disconnected at meter box fuse (1,10)	0		
Inactive – electrically disconnected at meter box switch (1,11)	0		
Inactive – electrically disconnected ready for decommissioning (1,6)	0		
Inactive – reconciled elsewhere (1,5)	0		
Decommissioned (3)	0		

1.8. Authorisation Received

All information was directly provided by Awhitu Windfarms, JC Consulting, and EMS.

1.9. Scope of Audit

This reconciliation participant audit was performed at the request of Awhitu Windfarms Ltd to support their application for certification.

The table below shows the tasks under clause 15.38 of part 15 for which certification is required.

Tasks Requiring Certification Under Clause 15.38(1) of Part 15	Relevant to audit	Agents Involved in Performance of Tasks	MEPs
(a) - Maintaining registry information and performing customer and embedded generator switching	✓	EMS (generation) JC Consulting (NHH ICPs)	
(b) – Gathering and storing raw meter data	✓	EMS (generation)	ACCM, COUP
(c)(i) - Creation and management of HHR volume information	✗		
(c)(ii) - Creation and management of NHH volume information	✗		
(c)(ii) - Creation and management of HHR and NHH volume information	✓	EMS (generation) JC Consulting	
(c)(iv) - Creation and management of dispatchable load information	✗		
(d)(i) – Calculation and delivery of ICP days under clause 15.6	✓	EMS (generation) JC Consulting	
(d)(ii) - delivery of electricity supplied information under clause 15.7	✓	JC Consulting	
(d)(iii) - delivery of information from retailer and direct purchaser half hourly metered ICPs under clause 15.8	✓	EMS (generation)	
(e) – Provision of submission information for reconciliation	✓	EMS (generation) JC Consulting	
(f) - Provision of metering information to the grid owner in accordance with subpart 4 of part 13	✗		

1.10. Summary of previous audit

A desktop audit for retail was conducted by Chrissy Burrows, Momentous Consulting Ltd in May 2020. A desktop audit for generation was conducted by Chrissy Burrows, Momentous Consulting Ltd in November 2019.

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 registry information was evaluated.

Audit commentary

Information provided to the registry is correct.

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

Awhitu Windfarms uses two agents to provide information in accordance with Part 15.

Audit commentary

EMS provides information for generation to the reconciliation manager. JC Consulting will be providing submission information for 2 NHH ICPs. The first files will be submitted in July 2020 (June 2020 volumes)

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

EMS acts as the agent for Awhitu Windfarms with the transmission of data (generation) to the reconciliation manager being carried out electronically using the RM portal.

JC Consulting provides the registry services using the registry web interface. Submission files will be uploaded via the RM portal.

Audit commentary

The EMS audit report was reviewed, and compliance was confirmed with the above clause.

The JC Consulting processes were validated during audits conducted by us this year.

Audit outcome

Compliant

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

EMS and JC Consulting act as the agents on behalf of Awhitu Windfarms.

Audit commentary

We reviewed the EMS audit report and confirm compliance. The audit confirms that a complete audit trail was viewed for all data gathering, validation and processing functions. The log of these activities include the activity identifier, date and time and operator identifier.

The RM TOOL used by JC Consulting contains a detailed audit trail for data gathering, validation, and correction. It was reviewed during this audit and found compliant.

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

Terms and conditions have been drafted and are with the Authority for final approval.

Audit commentary

The terms and conditions contain all required information in particular access requirements, meter installation and retailer default.

Audit outcome

Compliant

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

Terms and conditions have been drafted and are with the Authority for final approval.

Audit commentary

The terms and conditions contain all required information in particular access requirements, meter installation and retailer default.

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

MYST trades 2 category 1 metering installations . The generation installation (wind farm) is category 5.

Audit commentary

The company confirmed they do not have any installation to which metering data loss compensation has to be applied. Category 1 metering installations are always close to a point of connection. AccuCal certified the generation installation and no loss compensation factor to metering data is required.

Audit outcome

Compliant

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

Terms and conditions have been drafted and are with the Authority for final approval.

Audit commentary

The terms and conditions contain all required information in particular access requirements, meter installation and retailer default.

Audit outcome

Compliant

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 1 or more metering installations for the point of connection.*

Audit observation

MYST did not have any new connections in the period covered by this audit. MYST is not planning to deal with new connections.

Audit commentary

The process of connection/reconnection is in place, but it has not been used as no installations were disconnected and/or reconnected. Two first ICPs switched in June 2020.

Audit outcome

Compliant

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

Code reference

Clause 10.33(1)

Code related audit information

A reconciliation participant 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 reconciliation participant is recorded in the registry as the trader responsible for the ICP*
 - *if the ICP has metered load, 1 or more certified metering installations are in place*
 - *if the ICP has not previously been electrically connected, the relevant distributor has given written approval of the temporary electrical connection.*

Audit observation

This was discussed during the audit.

Audit commentary

MYST is not planning to deal with new connections.

Audit outcome

Not applicable

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:

- *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 reconciliation participant is recorded in the registry as the trader responsible for the ICP*
 - *if the ICP has metered load, 1 or more certified metering installations are in place*
 - *if the ICP has not previously been electrically connected, the relevant distributor has given written approval of the temporary electrical connection.*

Audit observation

MYST is not planning to deal with new connections.

Audit commentary

The company has in place a connection/reconnection process, which has not been used in the period covered by this audit.

Audit outcome

Compliant

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

Network arrangements have been entered into with Counties.

MYST has been in communication with INTELLIHUB for use of the COUP meters installed.

Audit commentary

Network arrangements have been entered into with Counties. This is a standard UoSA.

MYST has been in communication with INTELLIHUB for use of the COUP meters installed. This has not been finalised but is in the process of being completed. The issue was that COVID19 halted the progress to get the contract signed by INTELLIHUB.

Audit outcome

Compliant

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

MYST has been in communication with INTELLIHUB for use of the COUP meters installed.

Audit commentary

MYST has been in communication with INTELLIHUB for use of the COUP meters installed. This has not been finalised but is in the process of being completed. The issue was that COVID19 halted the progress to get the contract signed by INTELLIHUB.

Audit outcome

Compliant

3. MAINTAINING REGISTRY INFORMATION

3.1. Obtaining ICP identifiers (Clause 11.3)

Code reference

Clause 11.3

Code related audit information

The following participants must, before assuming responsibility for certain points of connection on a local network or embedded network, obtain an ICP identifier for the point of connection:

- a) a trader who has agreed to purchase electricity from an embedded generator or sell electricity to a consumer*
- b) an embedded generator who sells electricity directly to the clearing manager*
- c) a direct purchaser connected to a local network or an embedded network*
- d) an embedded network owner in relation to a point of connection on an embedded network that is settled by differencing*
- e) a network owner in relation to a shared unmetered load point of connection to the network owner's network*
- f) a network owner in relation to a point of connection between the network owner's network and an embedded network.*

ICP identifiers must be obtained for points of connection at which any of the following occur:

- a consumer purchases electricity from a trader 11.3(3)(a)*
- a trader purchases electricity from an embedded generator 11.3(3)(b)*
- a direct purchaser purchases electricity from the clearing manager 11.3(3)(c)*
- an embedded generator sells electricity directly to the clearing manager 11.3(3)(d)*
- a network is settled by differencing 11.3(3)(e)*
- there is a distributor status ICP on the parent network point of connection of an embedded network or at the point of connection of shared unmetered load. 11.3(3)(f)*

Audit observation

MYST does not trade new connections and there are no such plans in the future.

Audit commentary

This clause is not applicable. Compliance was not assessed.

Audit outcome

Not applicable

3.2. Providing registry information (Clause 11.7(2))

Code reference

Clause 11.7(2)

Code related audit information

Each trader must provide information to the registry manager about each ICP at which it trades electricity in accordance with Schedule 11.1.

Audit observation

JC Consulting and EMS will be conducting all registry transactions.

Audit commentary

This clause is not applicable. Compliance was not assessed.

Audit outcome

Not applicable

3.3. Changes to registry information (Clause 10 Schedule 11.1)

Code reference

Clause 10 Schedule 11.1

Code related audit information

If information provided by a trader to the registry manager about an ICP changes, the trader must provide written notice to the registry manager of the change no later than 5 business days after the change.

Audit observation

JC Consulting and EMS will be conducting all registry transactions

Audit commentary

There were no changes to the registry information for MYST or AWFL.

Registry transactions will be minimal due to the nature of this participant. The status of generator will be updated in the event the site is shut down for any reason.

Audit outcome

Compliant

3.4. Trader responsibility for an ICP (Clause 11.18)

Code reference

Clause 11.18

Code related audit information

A trader becomes responsible for an ICP when the trader is recorded in the registry as being responsible for the ICP.

A trader ceases to be responsible for an ICP if:

- *another trader is recorded in the registry as accepting responsibility for the ICP (clause 11.18(2)(a)); or*
- *the ICP is decommissioned in accordance with clause 20 of Schedule 11.1 (clause 11.18(2)(b)).*
- *if an ICP is to be decommissioned, the trader who is responsible for the ICP must (clause 11.18(3)):*
 - o *arrange for a final interrogation to take place prior to or upon meter removal (clause 11.18(3)(a)); and*
 - o *advise the MEP responsible for the metering installation of the decommissioning (clause 11.18(3)(b)).*

A trader who is responsible for an ICP (excluding UML) must ensure that an MEP is recorded in the registry for that ICP (clause 11.18(4)).

A trader must not trade at an ICP (excluding UML) unless an MEP is recorded in the registry for that ICP (clause 11.18(5)).

Audit observation

According to the registry all ICPs have MEPs recorded.

Audit commentary

Awhitu Windfarms fully understand that as soon as they are recorded in the registry as accepting responsibility, the responsibility will cease only when an ICP switches out to another trader and its four-letter code is recorded in the registry.

There are no ICPs with the status “decommissioned”.

Audit outcome

Compliant

3.5. Provision of information to the registry manager (Clause 9 Schedule 11.1)

Code reference

Clause 9 Schedule 11.1

Code related audit information

Each trader must provide the following information to the registry manager for each ICP for which it is recorded in the registry as having responsibility:

- a) the participant identifier of the trader, as approved by the Authority (clause 9(1)(a))*
- b) the profile code for each profile at that ICP, as approved by the Authority (clause 9(1)(b))*
- c) the metering equipment provider for each category 1 metering or higher (clause 9(1)(c))*
- d) the type of submission information the trader will provide to the RM for the ICP (clause 9(1)(ea))*
- e) if a settlement type of UNM is assigned to that ICP, either:*
 - the code ENG if the load is profiled through an engineering profile in accordance with profile class 2.1 (clause 9(1)(f)(i)); or*
 - in all other cases, the daily average kWh of unmetered load at the ICP (clause 9(1)(f)(ii)).*
 - the type and capacity of any unmetered load at each ICP (clause 9(1)(g))*
 - the status of the ICP, as defined in clauses 12 to 20 (clause 9(1)(j))*
 - except if the ICP exists for the purposes of reconciling an embedded network or the ICP has distributor status, the trader must provide the relevant business classification code applicable to the customer (clause 9(1)(k)).*

The trader must provide information specified in (a) to (j) above within 5 business days of trading (clause 9(2)).

The trader must provide information specified in 9(1)(k) no later than 20 business days of trading (clause 9(3))

Audit observation

JC Consulting and EMS act as the registry agents.

Audit commentary

All fields in the registry are populated correctly.

Audit outcome

Compliant

3.6. ANZSIC codes (Clause 9 (1)(k) of Schedule 11.1)

Code reference

Clause 9 (1)(k) of Schedule 11.1

Code related audit information

Traders are responsible to populate the relevant ANZSIC code for all ICPs for which they are responsible.

Audit observation

We reviewed the registry information.

Audit commentary

We confirm all 3 ICPs have the correct ANZSIC code assigned.

Audit outcome

Compliant

3.7. Changes to unmetered load (Clause 9(1)(f) of Schedule 11.1)

Code reference

Clause 9(1)(f) of Schedule 11.1

Code related audit information

if a settlement type of UNM is assigned to that ICP, the trader must populate:

the code ENG - if the load is profiled through an engineering profile in accordance with profile class 2.1 (clause 9(1)(f)(i)); or

the daily average kWh of unmetered load at the ICP - in all other cases (clause 9(1)(f)(ii)).

Audit observation

The registry information was reviewed.

Audit commentary

It is not the intention of Awhitu Windfarms to take on unmetered ICPs. In the event UML is found, the agent has the capability to extract required information from the registry and provide accurate submission.

Audit outcome

Compliant

3.8. Management of “active” status (Clause 17 Schedule 11.1)

Code reference

Clause 17 Schedule 11.1

Code related audit information

The ICP status of “active” is be managed by the relevant trader and indicates that:

- *the associated electrical installations are electrically connected (clause 17(1)(a))*
- *the trader must provide information related to the ICP in accordance with Part 15, to the reconciliation manager for the purpose of compiling reconciliation information (clause 17(1)(b)).*

Before an ICP is given the “active” status, the trader must ensure that:

- the ICP has only 1 customer, embedded generator, or direct purchaser (clause 17(2)(a))
- the electricity consumed is quantified by a metering installation or a method of calculation approved by the Authority (clause 17(2)(b)).

Audit observation

The registry information was reviewed.

Audit commentary

All ICPs Awhitu Windfarms are responsible for have the status “active”. Each ICP has only one customer.

Audit outcome

Compliant

3.9. Management of “inactive” status (Clause 19 Schedule 11.1)

Code reference

Clause 19 Schedule 11.1

Code related audit information

The ICP status of “inactive” must be managed by the relevant trader and indicates that:

- electricity cannot flow at that ICP (clause 19(a)); or
- submission information related to the ICP is not required by the reconciliation manager for the purpose of compiling reconciliation information (clause 19(b)).

Audit observation

The registry information was reviewed.

Audit commentary

All ICPs Awhitu Windfarms are responsible for have the status “active”. No “inactive” status has been used in the period covered by this audit.

The status of generator will be updated in the event the site is shut down for any reason.

Audit outcome

Compliant

3.10. ICPs at new or ready status for 24 months (Clause 15 Schedule 11.1)

Code reference

Clause 15 Schedule 11.1

Code related audit information

If an ICP has had the status of "New" or "Ready" for 24 calendar months or more, the distributor must ask the trader whether it should continue to have that status and must decommission the ICP if the trader advises the ICP should not continue to have that status.

Audit observation

It is a distributor’s code obligation to monitor an ICP which has had the status of “New” or “Ready” for 24 calendar months or more. It is expected that a trader be able to respond to such queries from distributors.

Audit commentary

Awhitu Windfarms does not trade new connections therefore has not received any notification from traders in relation to this clause.

Audit outcome

Compliant

4. PERFORMING CUSTOMER AND EMBEDDED GENERATOR SWITCHING

4.1. Inform registry of switch request for ICPs - standard switch (Clause 2 Schedule 11.3)

Code reference

Clause 2 Schedule 11.3

Code related audit information

The standard switch process applies where a trader and a customer or embedded generator enters into an arrangement in which the trader commences trading electricity with the customer or embedded generator at a non-half hour or unmetered ICP at which another trader supplies electricity, or the trader assumes responsibility for such an ICP.

If the uninvited direct sale agreement applies to an arrangement described above, the gaining trader must identify the period within which the customer or embedded generator may cancel the arrangement in accordance with section 36M of the Fair Trading Act 1986. The arrangement is deemed to come into effect on the day after the expiry of that period.

A gaining trader must advise the registry manager of a switch no later than 2 business days after the arrangement comes into effect and include in its advice to the registry manager that the switch type is TR and 1 or more profile codes associated with that ICP.

Audit observation

JC Consulting provides switching services for MYST. The agent has been found to be compliant in other participants audits.

Audit commentary

2 NTTR were sent during the audit period. Both ICPs belong to an associated property with Awhitu Windfarms.

Audit outcome

Compliant

4.2. Losing trader response to switch request and event dates - standard switch (Clauses 3 and 4 Schedule 11.3)

Code reference

Clauses 3 and 4 Schedule 11.3

Code related audit information

Within 3 business days after receiving notice of a switch from the registry manager, the losing trader must establish a proposed event date. The event date must be no more than 10 business days after the date of receipt of such notification, and in any 12 month period, at least 50% of the event dates must be no more than 5 business days after the date of notification. The losing trader must then:

- *provide acknowledgement of the switch request by (clause 3(a) of Schedule 11.3);*
- *providing the proposed event date to the registry manager and a valid switch response code (clause 3(a)(i) and (ii) of Schedule 11.3); or*
- *providing a request for withdrawal of the switch in accordance with clause 17 (clause 3(c) of Schedule 11.3).*

When establishing an event date for clause 4, the losing trader may disregard every event date established by the losing trader for an ICP for which when the losing trader received notice from the registry manager under clause 22(a) the losing trader had been responsible for less than 2 months.

Audit observation

JC Consulting provides switching services.

Audit commentary

The company has not lost any ICP in the audit period.

Audit outcome

Compliant

4.3. Losing trader must provide final information - standard switch (Clause 5 Schedule 11.3)

Code reference

Clause 5 Schedule 11.3

Code related audit information

If the losing trader provides information to the registry manager in accordance with clause 3(a) of Schedule 11.3 with the required information, no later than 5 business days after the event date, the losing trader must complete the switch by:

- *providing event date to the registry manager (clause 5(a)); and*
- *provide to the gaining trader a switch event meter reading as at the event date, for each meter or data storage device that is recorded in the registry with accumulator of C and a settlement indicator of Y (clause 5(b)); and*
- *if a switch event meter reading is not a validated reading, provide the date of the last meter reading (clause 5(c)).*

Audit observation

JC Consulting provides switching services for MYST.

Audit commentary

The company has not lost any ICP in the audit period.

Audit outcome

Compliant

4.4. Retailers must use same reading - standard switch (Clause 6(1) and 6A Schedule 11.3)

Code reference

Clause 6(1) and 6A Schedule 11.3

Code related audit information

The losing trader and the gaining trader must both use the same switch event meter reading as determined by the following procedure:

- *if the switch event meter reading provided by the losing trader differs by less than 200 kWh from a value established by the gaining trader, the gaining trader must use the losing trader's validated meter reading or permanent estimate (clause 6(a)); or*
- *the gaining trader may dispute the switch meter reading if the validated meter reading or permanent estimate provided by the losing trader differs by 200 kWh or more. (clause 6(b)).*

If the gaining trader disputes a switch meter reading because the switch event meter reading provided by the losing trader differs by 200 kWh or more, the gaining trader must, within 4 calendar months of

the registry manager giving the gaining trader written notice of having received information about the switch completion, provide to the losing trader a changed switch event meter reading supported by 2 validated meter readings.

- *the losing trader can choose not to accept the reading, however, must advise the gaining trader no later than 5 business days after receiving the switch event meter reading from the gaining trader (clause 6A(a)); or*
- *if the losing trader notifies its acceptance or does not provide any response, the losing trader must use the switch event meter reading supplied by the gaining trader. (clause 6A(b)).*

Audit observation

JC Consulting provides switching services for MYST.

Audit commentary

MYST gained two ICPs, 0007155140CN800 on 06/06/2020 and 0071551401CNEF2 on 10/06/2020. Switch event reads provided by the losing trader will be used in submission files created by JC Consulting. JC Consulting showed us the readings in the RM TOOL, and we went through the steps showing how volumes will be calculated.

Audit outcome

Compliant

4.5. Non-half hour switch event meter reading - standard switch (Clause 6(2) and (3) Schedule 11.3)

Code reference

Clause 6(2) and (3) Schedule 11.3

Code related audit information

If the losing trader trades electricity from a non-half hour meter, with a switch event meter reading that is not from an AMI certified meter flagged Y in the registry: and

- *the gaining trader will trade electricity from a meter with a half hour submission type in the registry (clause 6(2)(b));*
- *the gaining trader within 5 business days after receiving final information from the registry manager, may provide the losing trader with a switch event meter reading from that meter. The losing trader must use that switch event meter reading.*

Audit observation

.

Audit commentary

Both switches will be reconciled as NHH. This clause is not applicable.

Audit outcome

Not applicable

4.6. Disputes - standard switch (Clause 7 Schedule 11.3)

Code reference

Clause 7 Schedule 11.3

Code related audit information

A losing trader or gaining trader may give written notice to the other that it disputes a switch event meter reading provided under clauses 1 to 6. Such a dispute must be resolved in accordance with clause 15.29 (with all necessary amendments).

Audit observation

There were no disputes with losing retailers. If such a situation were to occur in the future it would be resolved in accordance with this clause.

Audit commentary

MYST confirmed that no disputes occurred in the period covered by this audit which would require a resolution. Awhitu Windfarms stated that they would not decline to accept another retailer's validated meter reading or permanent estimate if they are reasonable and appropriate in the applicable circumstances.

Audit outcome

Compliant

4.7. Gaining trader informs registry of switch request - switch move (Clause 9 Schedule 11.3)

Code reference

Clause 9 Schedule 11.3

Code related audit information

The switch move process applies where a gaining trader has an arrangement with a customer or embedded generator to trade electricity at an ICP using non half-hour metering or an unmetered ICP, or to assume responsibility for such an ICP, and no other trader has an agreement to trade electricity at that ICP, this is referred to as a switch move and the following provisions apply:

If the "uninvited direct sale agreement" applies, the gaining trader must identify the period within which the customer or embedded generator may cancel the arrangement in accordance with section 36M of the Fair Trading Act 1986. The arrangement is deemed to come into effect on the day after the expiry of that period.

In the event of a switch move, the gaining trader must advise the registry manager of a switch and the proposed event date no later than 2 business days after the arrangement comes into effect.

In its advice to the registry manager the gaining trader must include:

- *a proposed event date (clause 9(2)(a)); and*
- *that the switch type is "MI" (clause 9(2)(b)); and*
- *one or more profile codes of a profile at the ICP. (clause 9(2)(c))*

Audit observation

JC Consulting provides switching services for MYST. The agent has been found to be compliant in other participants audits.

Audit commentary

The switch move process was not used in the audit period. The company stated that they are planning to only add one more customer.

Audit outcome

Compliant

4.8. Losing trader provides information - switch move (Clause 10(1) Schedule 11.3)

Code reference

Clause 10(1) Schedule 11.3

Code related audit information

10(1) Within 5 business days after receiving notice of a switch move request from the registry manager—

- *10(1)(a) If the losing trader accepts the event date proposed by the gaining trader, the losing trader must complete the switch by providing to the registry manager:*
 - *confirmation of the switch event date; and*
 - *a valid switch response code; and*
 - *final information as required under clause 11; or*
- *10(1)(b) If the losing trader does not accept the event date proposed by the gaining trader, the losing trader must acknowledge the switch request to the registry manager and determine a different event date that—*
 - *is not earlier than the gaining trader's proposed event date, and*
 - *is no later than 10 business days after the date the losing trader receives notice; or*
- *10(1)(c) request that the switch be withdrawn in accordance with clause 17.*

Audit observation

JC Consulting provides switching services for MYST.

Audit commentary

The switch move process was not used in the audit period. The company stated that they are planning to only add one more customer.

Audit outcome

Compliant

4.9. Losing trader determines a different date - switch move (Clause 10(2) Schedule 11.3)

Code reference

Clause 10(2) Schedule 11.3

Code related audit information

If the losing trader determines a different date, then within 10 business days of receiving notice the losing trader must also complete the switch by providing to the registry manager as described in subclause (1)(a):

- *the event date proposed by the losing trader; and*
- *a valid switch response code; and*
- *final information as required under clause 1.*

Audit observation

JC Consulting provides switching services for MYST.

Audit commentary

The switch move process was not used in the audit period. The company stated that they are planning to only add one more customer.

Audit outcome

Compliant

4.10. Losing trader must provide final information - switch move (Clause 11 Schedule 11.3)

Code reference

Clause 11 Schedule 11.3

Code related audit information

The losing trader must provide final information to the registry manager for the purposes of clause 10(1)(a)(ii), including—

- *the event date (clause 11(a)); and*
- *a switch event meter reading as at the event date for each meter or data storage device that is recorded in the registry with an accumulator type of C and a settlement indicator of Y (clause 11(b)); and*
- *if the switch event meter reading is not a validated meter reading, the date of the last meter reading of the meter or storage device. (clause (11(c)).*

Audit observation

JC Consulting provides switching services for MYST.

Audit commentary

The switch move process was not used in the audit period. The company stated that they are planning to only add one more customer.

Audit outcome

Compliant

4.11. Gaining trader changes to switch meter reading - switch move (Clause 12 Schedule 11.3)

Code reference

Clause 12 Schedule 11.3

Code related audit information

The gaining trader may use the switch event meter reading supplied by the losing trader or may, at its own cost, obtain its own switch event meter reading. If the gaining trader elects to use this new switch event meter reading, the gaining trader must advise the losing trader of the switch event meter reading and the actual event date to which it refers as follows:

- *if the switch meter reading established by the gaining trader differs by less than 200 kWh from that provided by the losing trader, both traders must use the switch event meter reading provided by the gaining trader (clause 12(2)(a)); or*
- *if the switch event meter reading provided by the losing trader differs by 200 kWh or more from a value established by the gaining trader, the gaining trader may dispute the switch meter reading. In this case, the gaining trader, within 4 calendar months of the date the registry manager gives the gaining trader written notice of having received information about the switch completion, must provide to the losing trader a changed validated meter reading or a permanent estimate supported by 2 validated meter readings and the losing trader must either (clause 12(2)(b) and clause 12(3)):*
- *advise the gaining trader if it does not accept the switch event meter reading and the losing trader and the gaining trader must resolve the dispute in accordance with the disputes procedure in clause 15.29 (with all necessary amendments) (clause 12(3)(a)); or*
- *if the losing trader notifies its acceptance or does not provide any response, the losing trader must use the switch event meter reading supplied by the gaining trader. (clause 12(3)(b)).*

12(2A) If the losing trader trades electricity from a non-half hour meter, with a switch event meter reading that is not from an AMI certified meter flagged Y in the registry,

- the gaining trader will trade electricity from a meter with a half hour submission type in the registry (clause 12(2A)(b));*
- the gaining trader no later than 5 business days after receiving final information from the registry manager, may provide the losing trader with a switch event meter reading from that meter. The losing trader must use that switch event meter reading. (clause 12(2B)).*

Audit observation

JC Consulting provides switching services for MYST.

Audit commentary

The switch move process was not used in the audit period. The company stated that they are planning to only add one more customer.

Audit outcome

Compliant

4.12. Gaining trader informs registry of switch request - gaining trader switch (Clause 14 Schedule 11.3)

Code reference

Clause 14 Schedule 11.3

Code related audit information

The gaining trader switch process applies when a trader has an arrangement with a customer or embedded generator to trade electricity at an ICP at which the losing trader trades electricity with the customer or embedded generator, and one of the following applies at the ICP:

- the gaining trader will trade electricity through a half hour metering installation that is a category 3 or higher metering installation; or*
- the gaining trader will trade electricity through a non-AMI half hour metering installation and the losing trader trades electricity through a non-AMI non half hour metering installation; or*
- the gaining trader will trade electricity through a non-AMI non half hour metering installation and the losing trader trades electricity through a non-AMI half hour metering installation*

If the uninvited direct sale agreement applies to an arrangement described above, the gaining trader must identify the period within which the customer or embedded generator may cancel the arrangement in accordance with section 36M of the Fair Trading Act 1986. The arrangement is deemed to come into effect on the day after the expiry of that period.

A gaining trader must advise the registry manager of the switch and expected event date no later than 3 business days after the arrangement comes into effect.

14(2) The gaining trader must include in its advice to the registry manager:

- a) a proposed event date; and*
- b) that the switch type is HH.*

14(3) The proposed event date must be a date that is after the date on which the gaining trader advises the registry manager, unless clause 14(4) applies.

14(4) The proposed event date is a date before the date on which the gaining trader advised the registry manager, if:

14(4)(a) – the proposed event date is in the same month as the date on which the gaining trader advised the registry manager; or

14(4)(b) – the proposed event date is no more than 90 days before the date on which the gaining trader advises the registry manager and this date is agreed between the losing and gaining traders.

Audit observation

JC Consulting provides switching services for MYST. The agent has been found to be compliant in other participants audits.

Audit commentary

The gaining trader process was not used in the audit period.

Audit outcome

Compliant

4.13. Losing trader provision of information - gaining trader switch (Clause 15 Schedule 11.3)

Code reference

Clause 15 Schedule 11.3

Code related audit information

Within 3 business days after the losing trader is informed about the switch by the registry manager, the losing trader must:

15(a) - provide to the registry manager a valid switch response code as approved by the Authority; or

15(b) - provide a request for withdrawal of the switch in accordance with clause 17.

Audit observation

JC Consulting provides switching services for MYST.

Audit commentary

The gaining trader process was not used in the audit period.

Audit outcome

Compliant

4.14. Gaining trader to advise the registry manager - gaining trader switch (Clause 16 Schedule 11.3)

Code reference

Clause 16 Schedule 11.3

Code related audit information

The gaining trader must complete the switch no later than 3 business days, after receiving the valid switch response code, by advising the registry manager of the event date.

If the ICP is being electrically disconnected, or if metering equipment is being removed, the gaining trader must either-

16(a)- give the losing trader or MEP for the ICP an opportunity to interrogate the metering installation immediately before the ICP is electrically disconnected or the metering equipment is removed; or

16(b)- carry out an interrogation and, no later than 5 business days after the metering installation is electrically disconnected or removed, advise the losing trader of the results and metering component numbers for each data channel in the metering installation.

Audit observation

JC Consulting provides switching services for MYST.

Audit commentary

The gaining trader process was not used in the audit period.

Audit outcome

Compliant

4.15. Withdrawal of switch requests (Clauses 17 and 18 Schedule 11.3)

Code reference

Clauses 17 and 18 Schedule 11.3

Code related audit information

A losing trader or gaining trader may request that a switch request be withdrawn at any time until the expiry of 2 calendar months after the event date of the switch.

If a trader requests the withdrawal of a switch, the following provisions apply:

- *for each ICP, the trader withdrawing the switch request must provide the registry manager with (clause 18(c)):*
 - *the participant identifier of the trader making the withdrawal request (clause 18(c)(i)); and*
 - *the withdrawal advisory code published by the Authority. (clause 18(c)(ii))*
- *within 5 business days after receiving notice from the registry manager of a switch, the trader receiving the withdrawal must advise the registry manager that the switch withdrawal request is accepted or rejected. A switch withdrawal request must not become effective until accepted by the trader who received the withdrawal. (clause 18(d))*
- *on receipt of a rejection notice from the registry manager, in accordance with clause 18(d), a trader may re-submit the switch withdrawal request for an ICP in accordance with clause 18(c). All switch withdrawal requests must be resolved within 10 business days after the date of the initial switch withdrawal request. (clause 18(e))*
- *if the trader requests that a switch request be withdrawn, and the resolution of that switch withdrawal request results in the switch proceeding, within 2 business days after receiving notice from the registry manager in accordance with clause 22(b), the losing trader must comply with clauses 3,5,10 and 11 (whichever is appropriate) and the gaining trader must comply with clause 16. (clause 18(f))*

Audit observation

JC Consulting provides switching services for MYST.

Audit commentary

The registry transactions were checked. There were no exchanges of NW files between MYST and other retailers.

Audit outcome

Compliant

4.16. Metering information (Clause 21 Schedule 11.3)

Code reference

Clause 21 Schedule 11.3

Code related audit information

For an interrogation or validated meter reading or permanent estimate carried out in accordance with Schedule 11.3:

21(a)- the trader who carries out the interrogation, switch event meter reading must ensure that the interrogation is as accurate as possible, or that the switch event meter reading is fair and reasonable.

21(b) and (c) - the cost of every interrogation or switch event meter reading carried out in accordance with clauses 5(b) or 11(b) or (c) must be met by the losing trader. The costs in every other case must be met by the gaining trader.

Audit observation

EMS reads a generator meter on behalf of Awhitu Windfarms. One ICP traded by MYST is read remotely by INTELLIHUB.

Audit commentary

Awhitu Windfarms understands their obligation as a trader.

Audit outcome

Compliant

4.17. Switch saving protection (Clause 11.15AA to 11.15AB)

Code reference

Clause 11.15AA to 11.15AB

Code related audit information

A trader that buys electricity from the clearing manager may elect to have a switch saving protection by giving notice to the Authority in writing.

If a protected trader enters into an arrangement with a customer of another trader (the losing trader), or a trader enters into an arrangement with a customer of a protected trader, to commence trading electricity with the customer, the losing trader must not, by any means, initiate contact with the customer to attempt to persuade the customer to terminate the arrangement during the period from the receipt of the NT to the event date of the switch including by:

11.15AB(4)(a)- making a counter offer to the customer; or

11.15AB(4)(b)- offering an enticement to the customer.

Audit observation

Awhitu Windfarms are not a member of the switch protection program.

Audit commentary

The company has not lost any ICPs in the audit period.

Audit outcome

Compliant

5. MAINTENANCE OF UNMETERED LOAD

5.1. Maintaining shared unmetered load (Clause 11.14)

Code reference

Clause 11.14

Code related audit information

The trader must adhere to the process for maintaining shared unmetered load as outlined in clause 11.14:

11.14(2) - The distributor must give written notice to the traders responsible for the ICPs across which the unmetered load is shared, of the ICP identifiers of the ICPs.

11.14(3) - A trader who receives such a notification from a distributor must give written notice to the distributor if it wishes to add or omit any ICP from the ICPs across which unmetered load is to be shared.

11.14(4) - A distributor who receives such a notification of changes from the trader under (3) must give written notice to the registry manager and each trader responsible for any of the ICPs across which the unmetered load is shared.

11.14(5) - If a distributor becomes aware of any change to the capacity of a shared unmetered load ICP or if a shared unmetered load ICP is decommissioned, it must give written notice to all traders affected by that change as soon as practicable after that change or decommissioning.

11.14(6) - Each trader who receives such a notification must, as soon as practicable after receiving the notification, adjust the unmetered load information for each ICP in the list for which it is responsible to ensure that the entire shared unmetered load is shared equally across each ICP.

11.14(7) - A trader must take responsibility for shared unmetered load assigned to an ICP for which the trader becomes responsible as a result of a switch in accordance with Part 11.

11.14(8) - A trader must not relinquish responsibility for shared unmetered load assigned to an ICP if there would then be no ICPs left across which that load could be shared.

11.14(9) - A trader can change the status of an ICP across which the unmetered load is shared to inactive status, as referred to in clause 19 of Schedule 11.1. In that case, the trader is not required to give written notice to the distributor of the change. The amount of electricity attributable to that ICP becomes UFE.

Audit observation

The registry was reviewed.

Audit commentary

There is no unmetered load associated with these installations. In the event unmetered load is found, the agent has the capability to extract the required information from the registry and provide accurate submissions.

Audit outcome

Compliant

5.2. Unmetered threshold (Clause 10.14 (2)(b))

Code reference

Clause 10.14 (2)(b)

Code related audit information

The reconciliation participant must ensure that unmetered load does not exceed 3,000 kWh per annum, or 6,000 kWh per annum if the load is predictable and of a type approved and published by the Authority.

Audit observation

The registry was reviewed.

Audit commentary

There is no unmetered load associated with these installations. This clause is not applicable.

Audit outcome

Not applicable

5.3. Unmetered threshold exceeded (Clause 10.14 (5))

Code reference

Clause 10.14 (5)

Code related audit information

If the unmetered load limit is exceeded the retailer must:

- *within 20 business days, commence corrective measure to ensure it complies with Part 10*
- *within 20 business days of commencing the corrective measure, complete the corrective measures*
- *no later than 10 business days after it becomes aware of the limit having been exceeded, advise each participant who is or would be expected to be affected of:*
 - o *the date the limit was calculated or estimated to have been exceeded*
 - o *the details of the corrective measures that the retailer proposes to take or is taking to reduce the unmetered load.*

Audit observation

The registry was reviewed.

Audit commentary

There is no unmetered load associated with these installations. This clause is not applicable.

Audit outcome

Not applicable

5.4. Distributed unmetered load (Clause 11 Schedule 15.3, Clause 15.37B)

Code reference

Clause 11 Schedule 15.3, Clause 15.37B

Code related audit information

An up-to-date database must be maintained for each type of distributed unmetered load for which the retailer is responsible. The information in the database must be maintained in a manner that the resulting submission information meets the accuracy requirements of clause 15.2.

A separate audit is required for distributed unmetered load data bases.

The database must satisfy the requirements of Schedule 15.5 with regard to the methodology for deriving submission information.

Audit observation

The registry was reviewed.

Audit commentary

There is no unmetered load associated with these installations. This clause is not applicable.

Audit outcome

Not applicable

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 1 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

All installations traded by Awhitu Windfarms are metered. No subtraction method is used to determine submission information provided to the reconciliation manager.

Audit commentary

Awhitu Windfarms is an embedded generator (AWFL). The meter is read by EMS and volumes are submitted by them.

One NHH meter is AMI non communicating, which is a farm pump meter and is intended to be read by MYST or their agent. WELLS will be engaged and at some stage or the metering may be replaced. The second meter (house) is read by INTELLIHUB.

Audit outcome

Compliant

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 3 months for the grid owner to review and comment on the design*
- *respond within 3 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

Awhitu Windfarms is not responsible for any GIPs.

Audit commentary

This clause is not applicable. Compliance was not assessed.

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

Awhitu Windfarms uses only the HHR and RPS profiles.

Audit commentary

Awhitu Windfarms uses only the RPS profile. No control devices are needed therefore they have never approached a MEP asking for a control device to be certified.

Audit outcome

Compliant

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

All gathering, storage and correction to metering data will be handled by John Candy Consulting and EMS.

Audit commentary

Both company have processes in place to identify defective metering installations. If they suspect a metering installation is inaccurate, defective or not fit for purpose Awhitu Windfarms will be notified. Awhitu Windfarms, or their agent, will then notify the MEP if any defective or faulty metering is found.

No such installations were identified in the audit period.

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 it 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

EMS collects data for the generation ICP (1099578842CN302). INTELLIHUB reads 0007155140CN800 remotely.

Audit commentary

Compliance with this clause is assessed during the EMS and INTELLIHUB audits.

Audit outcome

Compliant

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

Code reference

Clause 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

EMS reads the generation ICP. Two NHH ICPs are read by INTELLIHUB and MYST (participant read).

Audit commentary

One meter is not AMI communicating, which is a farm pump meter and is intended to be read by MYST or their agent. WELLS will be engaged and at some stage the metering may be replaced.

At the time of this audit, MYST will read the non-AMI meter and provide information to JC Consulting.

Audit outcome

Compliant

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

The switch read from the CS file is used as a start read for NHH ICPs. Consecutive readings from a participant and MEPs, apply from 0000hrs on the day after the last meter interrogation up to and including 2400hrs on the day of the meter interrogation.

Audit commentary

Compliance confirmed based on scenarios described in **section 12.11**.

Audit outcome

Compliant

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

JC Consulting will provide services to MYST.

Audit commentary

The first two ICPs were gained by MYST at the beginning of June 2020. Compliance with this clause can only be assessed based on JC Consulting processes, which are sound.

Audit outcome

Compliant

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

JC Consulting will provide services to MYST.

Audit commentary

The first two ICPs were gained by MYST at the beginning of June 2020. This clause is 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 4 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

The first two ICPs were gained by MYST at the beginning of June 2020.

Audit commentary

JC Consulting will create and file the required reports for meter frequency after 4 months.

This clause is not applicable.

Audit outcome

Not applicable

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

One NHH meter is read remotely by INTELLIHUB.

Audit commentary

Compliance with this clause was assessed during the INTELLIHUB audit.

Audit outcome

Compliant

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

EMS reads the generation site on behalf of AWFL.

Audit commentary

Compliance with this clause was assessed during the EMS audit.

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

EMS reads the generation site on behalf of AWFL.

Audit commentary

Compliance with this clause was assessed during the EMS audit.

Audit outcome

Compliant

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

EMS reads the generation site on behalf of AWFL.

Audit commentary

Compliance with this clause was assessed during the EMS audit.

Audit outcome

Compliant

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 $\pm 0.1\%$ (± 2 seconds).

Audit observation

EMS reads the generation meter.

Audit commentary

We reviewed data provided by EMS and confirm the trading period is 30 minutes.

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

Meters are interrogated by EMS, INTELLIHUB, and MYST (participant read).

Audit commentary

EMS and INTELLIHUB archive raw meter data. One ICP is read by a participant. A photo of the installation is taken, which is archived and then passed to JC Consulting.

Audit outcome

Compliant

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

This was discussed during the audit. Awhitu Windfarms does not use non-metering information to determine profile data.

Audit commentary

No non-metering information is collected by Awhitu Windfarms.

Audit outcome

Compliant

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

The correction of NHH readings, if necessary, is completed by JC Consulting.

Audit commentary

JC Consulting validates NHH readings on import to the RM TOOL. If any readings are identified as incorrect the MEP or the participant will be contacted.

Audit outcome

Compliant

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

EMS reads HHR meters as part of their service.

Audit commentary

The agreement between EMS and Awhitu Windfarms is that if any HHR metering data would be identified as incorrect, it will be corrected. EMS stated, no data was corrected in the audit period.

The EMS audit report stated that the error handling processes were reviewed and were found compliant.

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

Error and loss compensation was discussed during the audit.

Audit commentary

No error or loss compensation is required to be applied to data before submission to the market.

Audit outcome

Compliant

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

EMS and JC Consulting only receives a copy of raw meter data, and it is archived and never adjusted. The EMS and INTELLIHUB audit assessed compliance with this clause.

Where reads are found to need correction or estimation this will be conducted by EMS or JC Consulting

Audit commentary

If any correction or copy of raw data is required using the RM TOOL a journal will be created. It is the same journal which is created when metering data is estimated.

Audit outcome

Compliant

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

EMS reads HHR metering installation as the agent.

Audit commentary

According to the EMS audit report all estimated data is correctly identified at trading period level. No data was estimated for installation of AFWL.

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

EMS derives volume information for HHRVOLS and HHRAGGR.

Audit commentary

The EMS audit report was reviewed to assess compliance. According to the report all data is sourced from validated or estimated data.

Recently conducted retailers' audit confirmed that the JC Consulting processes are compliant with this clause.

Audit outcome

Compliant

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

EMS derives volume information for HHRVOLS and HHRAGGR.

Audit commentary

The EMS audit report was reviewed to assess compliance. The report stated that “when reporting submission information, the number of decimal places is rounded to two.” A sampling process confirmed that EMS retains the raw unrounded meter data.

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

This function is conducted by EMS as the agent.

Audit commentary

There was no HHR data conducted in the audit period.

According to the EMS audit report:

Estimation is conducted in GMMS. When estimation is required, GMMS selects a period of historic data, at least three months where available. GMMS calculates an average of the data for each interval for each date over that period and uses that for the estimation. The process employed is robust and meets the “reasonable endeavours” requirement.

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 0 values.

Audit observation

NHH metering information data validation is conducted by JC Consulting. The process was reviewed during other participant audits and found compliant.

Audit commentary

JC Consulting adopted a validation process for NHH reads which consists of checking for high, low reads, consumption detected >10% of rollover amount, consumption on de energised sites, missing reads, negative consumption.

There is also a process to monitor “possible” bridged meters. Unexpected consumption on deenergised sites is monitored.

Audit outcome

Compliant

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 0 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 meter and data storage device event list. Any event that could have affected the integrity of metering data must be investigated.

Audit observation

JC Consulting will download metering data from the MEP server.

Audit commentary

When data is uploaded into the RM TOOL a validity check of meter readings is conducted and an exception report is created. The MEP and MYST are advised if there is an issue.

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

Awhitu Windfarms is not required to submit information to the grid owner.

Audit commentary

This clause is not applicable. Compliance was not assessed.

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

Awhitu Windfarms is not required to submit information to the grid owner.

Audit commentary

This clause is not applicable. Compliance was not assessed.

Audit outcome

Not applicable

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

Awhitu Windfarms is not required to submit information to the grid owner.

Audit commentary

This clause is not applicable. Compliance was not assessed.

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

Awhitu Windfarms is not required to submit information to the grid owner.

Audit commentary

This clause is not applicable. Compliance was not assessed.

Audit outcome

Not applicable

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

Registry information was reviewed.

Audit commentary

AWFL/MYST uses HHR and RPS profiles only. Trading notifications were not required.

Audit outcome

Compliant

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

The ICPDAYS reporting is completed by JC Consulting and EMS.

Audit commentary

EMS provided ICPDAYS file for May 2020.

ICPDAYS for 2 NHH ICPs will be submitted at the beginning of July 2020. JC Consulting will use the RM TOOL to create it.

Audit outcome

Compliant

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

JC Consulting will act as the MYST agent.

Audit commentary

MYST will maintain billing processes and creation of invoice through Excel spreadsheets. Based on information provided by MYST, JC Consulting will create the AV-120 file.

We have determined compliance in other participants audits that use this agent.

Audit outcome

Compliant

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

EMS submits HHRAGGR for the generation ICP.

Audit commentary

We compared volumes in HHRVOLS and HHRAGGR for May 2020. There were no differences between the volumes and aggregates.

The Reconciliation Manager Functional Specification in section 3, described HHRAGGR as HHR submission information that is aggregated per ICP for the whole month.

There is a misalignment between the Code requirements and RM file specification. It is a problem well known to the Authority and is awaiting a resolution.

Audit outcome

Non-compliant

Non-compliance	Description		
Audit Ref: 11.4 With: 15.8 From: 27-Nov-19 To: 22-Jun-20	HHRAGGR files do not contain electricity supplied information Potential impact: None Actual impact: None Audit history: None Controls: Strong Breach risk rating: 1		
Audit risk rating	Rationale for audit risk rating		
Low	EMS submits submissions volumes as per the Reconciliation Manager specification.		
Actions taken to resolve the issue		Completion date	Remedial action status
			Identified
Preventative actions taken to ensure no further issues will occur		Completion date	

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 1 of the techniques set out in clause 15.36(3) specified by the Authority.

Audit observation

This function is performed by EMS as the agent.

Audit commentary

According to the EMS audit report, the company uses the “trading period run on” technique for daylight saving adjustment. Compliance was confirmed.

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 function is performed by EMS and JC Consulting as the agents.

Audit commentary

EMS provided a set of submission data for May 2020 for review.

JC Consulting will submit reconciliation files in July 2020.

Audit outcome

Compliant

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

This function is performed by EMS and JC Consulting as the agents.

Audit commentary

EMS submits data for 1 ICP. We reviewed the reconciliation files provided. We cross checked the contents of the files with the registry information. ICP was allocated to the NSP recorded in the registry.

JC Consulting has not submitted reconciliation files for 2 NHH ICPs yet. The agent has more than adequate systems in place for preparing reconciliation files.

Audit outcome

Compliant

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

Awhitu Windfarms is not a grid owner.

Audit commentary

This clause is not applicable. Compliance was not assessed.

Audit outcome

Not applicable

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

Awhitu Windfarms is not embedded network owner.

Audit commentary

This clause is not applicable. Compliance was not assessed.

Audit outcome

Not applicable

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

Awhitu Windfarms is not a grid connected generator.

Audit commentary

This clause is not applicable. Compliance was not assessed.

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

EMS provided submissions on behalf of AWFL.

JC Consulting has not submitted reconciliation files for NHH ICPs yet.

Audit commentary

Revision files are submitted for each revision cycle by EMS.

If variations are found between revision files for MYST/AWFL, agents will need to be able to identify the reason.

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

JC Consulting provides reconciliation services to MYST.

Audit commentary

The first ICPs switched in June 2020. This clause is not applicable.

Audit outcome

Not applicable

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

EMS perform this function as the agent for AWFL.

JC Consulting perform this function as the agent for MYST.

Audit commentary

The EMS audit report did not identify any non-compliance with this clause. Every month EMS submits HHRAGGR, ICPDAYS, and HHRVOLS.

JC Consulting has not submitted any reconciliation files yet. As a normal practice JC Consulting will forward submission files to the participant prior to submission for confirmation of correctness.

Audit outcome

Compliant

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

JC Consulting perform this function as the agent for MYST.

Audit commentary

No NHHVOLS file has been submitted yet.

Audit outcome

Compliant

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

JC Consulting perform this function as the agent for MYST.

Audit commentary

2 NHH ICPs are traded by MYST since the beginning of June 2020. The methodology of historical estimates has not been used yet. Recently conducted retailers' audit confirmed that the JC Consulting processes are sound and robust.

Audit outcome

Compliant

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

JC Consulting perform this function as the agent for MYST.

Audit commentary

No FE process has been used yet.

We reviewed the JC Consulting estimation process. The average daily consumption provided by a losing retailer is used or daily average consumption from the previous read to read.

Audit outcome

Compliant

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

We examined the registry information.

Audit commentary

AWLF/MYST use HHR and the RPS profiles. If any meter changes are required in the future, the process required by this clause will be followed.

Audit outcome

Compliant

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

EMS provides HHVOLS, HHRAGGR, and ICPDAYS to the reconciliation manager. JC Consulting will provide NHHVOLS, ICPDAYS, and BILLED for NHH ICPs (the first files will be submitted in July 2020)

Audit commentary

EMS provided a set of files for May 2020. The content was reviewed and found 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 2 decimal places.

If the unrounded digit to the right of the second decimal place is greater than or equal to 5, the second digit is rounded up, and

If the digit to the right of the second decimal place is less than 5, the second digit is unchanged.

Audit observation

EMS provides HHVOLS, HHRAGGR, and ICPDAYS to the reconciliation manager.

Audit commentary

The EMS audit report confirmed that submission information is appropriately rounded to 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

JC Consulting will provide NHHVOLS.

Audit commentary

The first two NHH ICPs switched in June 2020. This clause is not applicable.

Audit outcome

Not applicable

CONCLUSION

PARTICIPANT RESPONSE