ELECTRICITY INDUSTRY PARTICIPATION CODE METERING EQUIPMENT PROVIDER AUDIT REPORT

For

MERIDIAN ENERGY LIMITED

Prepared by: Steve Woods

Date audit commenced: 18 August 2024

Date audit report completed: 4 September 2024

Audit report due date: 04-Sep-24

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EXECUTIVE SUMMARY

Meridian is an MEP and is required to undergo an audit by 4 September 2024, in accordance with clause 1(1) of schedule 10.5.

Meridian's controls continue to ensure a high level of compliance. Three non-compliances are recorded, two related to the accuracy and timeliness of registry updates, and on related to an incorrect date in a certification report.

The date of the next audit is determined by the Electricity Authority and is dependent on the level of compliance during this audit. The table below provides some guidance on this matter and contains a future risk rating score of five, which results in an indicative audit frequency of 24 months. I believe 24 months is an appropriate recommendation.

The matters raised are shown in the table below.

AUDIT SUMMARY

NON-COMPLIANCES

Subject	Section	Clause	Non-Compliance	Controls	Audit Risk Rating	Breach Risk Rating	Remedial Action
Participants to Provide Accurate Information	2.5	10.6	Incorrect certification date in the registry for ICP 0000315340TPEFC. Incorrect certification expiry date in the certification report for ICP 0000315340TPEFC. Incorrect event dates for two ICPs.	Moderate	Low	2	Identified
Changes to Registry Records.	4.10	3 of Schedule 11.4	Two incorrect event dates and two late updates.	Moderate	Low	2	Identified
Accurate and complete records.	5.1	4(1)(a) and (b) of Schedule 10.6	Incorrect certification expiry date in the certification report for ICP 0000315340TPEFC.	Strong	Low	1	Identified
	5						
			Ind	icative Audit	Frequency	24 montl	hs

Future risk rating	1-2	3-6	7-9	10-19	20-24	25+
Indicative audit frequency	36 months	24 months	18 months	12 months	6 months	3 months

RECOMMENDATIONS

Subject	Section Recommendation		Description

ISSUES

Subject	Section	Recommendation	Description
		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

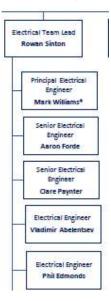
I checked the Electricity Authority website and I confirm there are no exemptions in place,

Audit commentary

I checked the Electricity Authority website and I confirm there are no exemptions in place,

1.2. Structure of Organisation

The relevant part of the organisation structure is shown below.



1.3. Persons involved in this audit

Auditors:

Name	Company	Role
Steve Woods	Veritek Limited	Lead Auditor

Meridian personnel assisting in this audit were:

Name	Title
Phil Edmonds	Electrical Engineer

1.4. Use of Agents (Clause 10.3)

Code reference

Clause 10.3

Code related audit information

A participant who uses a contractor

- remains responsible for the contractor's fulfilment of the participants Code obligations
- cannot assert that it is not responsible or liable for the obligation due to the action of a contractor
- must ensure that the contractor has at least the specified level of skill, expertise, experience, or qualification that the participant would be required to have if it were performing the obligation itself.

Audit observation

I checked whether there were any agents or contractors involved in the performance of functions within the scope of the audit.

Audit commentary

Meridian engages ATHs to conduct certification activities, but there are no contractors used to perform MEP responsibilities.

1.5. Hardware and Software

I checked whether there were any systems used in the performance of functions relevant to the scope of the audit.

Meridian has a data and scheduling system used to track the relevant inspection and certification dates. This resides on the server and is backed up in accordance with standard industry protocols.

1.6. Breaches or Breach Allegations

There are no breach allegations relevant to the scope of the audit.

1.7. ICP Data

The table below shows the grid connected points of connection where Meridian is the responsible MEP.

NSP	POC	Connection Code	Description	MEP	Certification Expiry	Start date
AVI2201MERIGG	AVI2201	GG	AVIEMORE	MERG	1/05/2008	1/05/2008
BEN2202MERIGG	BEN2202	GG	BENMORE	MERG	1/02/2009	1/02/2009
HRP2201MERIGG	HRP2201	GG	Harapaki	MERG	11/02/2023	11/02/2023
MAN2201MERIGG	MAN2201	GG	MANAPOURI	MERG	1/05/2008	1/05/2008
OHA2201MERIGG	OHA2201	GG	OHAU A	MERG	1/05/2008	1/05/2008
OHB2201MERIGG	OHB2201	GG	OHAU B	MERG	1/05/2008	1/05/2008
OHC2201MERIGG	OHC2201	GG	OHAU C	MERG	1/05/2008	1/05/2008
WDV1101MERIGG	WDV1101	GG	WOODVILLE	MERG	1/05/2008	1/05/2008
WTK0111MERIGG	WTK0111	GG	WAITAKI	MERG	1/05/2008	1/05/2008
WWD1102MERIGG	WWD1102	GG	Westwind	MERG	17/02/2009	17/02/2009
WWD1103MERIGG	WWD1103	GG	Westwind	MERG	17/02/2009	17/02/2009

Meridian is also the MEP for metering installations at the following ICPs.

ICP	Creation date	POC	Installation type	Category	Certification expiry
0000031683WEDA7	3/11/2010	TWH0331	В	5	17/04/2027
0000315340TPEFC	7/05/2007	NMA0331	В	5	02/05/2027
1001154460CK204	6/03/2014	WIL0331	В	5	14/10/2025

1.8. Authorisation Received

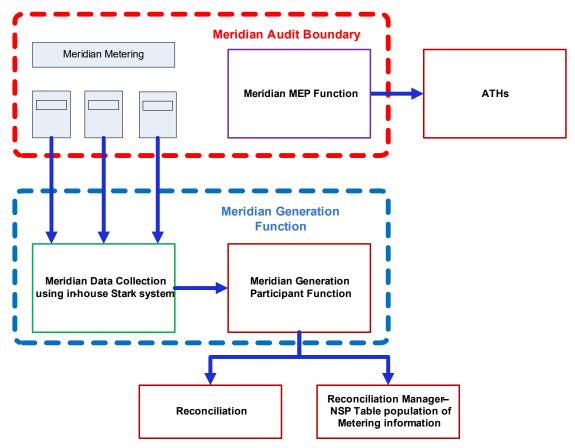
A letter of authorisation was not required.

1.9. Scope of Audit

Meridian is an MEP and is required to undergo an audit by 4 September 2024, in accordance with clause 1(1) of schedule 10.5.

This audit was conducted in accordance with the Guideline for Metering Equipment Provider Audits V2.1, which was published by the Electricity Authority.

The boundaries of this audit are shown below for greater clarity.



1.10. Summary of previous audit

The previous audit was conducted in 2022 by Rebecca Elliot of Veritek Limited.

Two non-compliances were identified, as shown in the table below.

Subject	Section	Clause	Non-Compliance	Status
Participants to Provide Accurate Information	2.5	10.6	Incorrect event dates for two ICPs.	Still existing for different events.
Changes to Registry Records.	4.10	3 of Schedule 11.4	Incorrect event dates for two ICPs.	Still existing for different events.
Certification and maintenance	7.1	10.38(a)	Certification cancelled from 8 April 2022 to 10 May 2022 at Waitaki G7.	Cleared
Certification Tests	7.2	10.38(b)	Burden tests not conducted at Ohau G8 and G11 in accordance with Clause 10.38(b) and clause 28(4) of schedule 10.7.	Cleared
Inspections	8.2	46(1) of Schedule 10.7	Inspection not conducted at Waitaki G7 by the due date.	Cleared

Subject	Section	Recommendation	Description	
Certification tests	7.2	Apply alternative certification to Ohau G8 and G11.	Consider applying alternative certification to Ohau G8 and G11 metering installations until access can be obtained to the VT junction boxes to conduct burden measurements.	Cleared

2. OPERATIONAL INFRASTRUCTURE

2.1. MEP responsibility for services access interface (Clause 10.9(2))

Code reference

Clause 10.9(2)

Code related audit information

The MEP is responsible for providing and maintaining the services access interface.

Audit observation

I checked the certification records for 25 metering installations to ensure the services access interface was correctly recorded.

Audit commentary

The services access interface is recorded in the metering installation certification reports.

Audit outcome

Compliant

2.2. Dispute Resolution (Clause 10.50(1) to (3))

Code reference

Clause 10.50(1) to (3)

Code related audit information

Participants must in good faith use its best endeavours to resolve any disputes related to Part 10 of the Code.

Disputes that are unable to be resolved may be referred to the Authority for determination.

Complaints that are not resolved by the parties or the Authority may be referred to the Rulings Panel by the Authority or participant.

Audit observation

I checked whether any disputes had been dealt with during the audit period.

Audit commentary

Meridian has not been required to resolve any disputes in accordance with this clause.

Audit outcome

2.3. MEP Identifier (Clause 7(1) of Schedule 10.6)

Code reference

Clause 7(1) of Schedule 10.6

Code related audit information

The MEP must ensure it has a unique participant identifier and must use this participant identifier (if required) to correctly identify its information.

Audit observation

I checked the NSP mapping table and the registry to ensure the correct MEP code was used.

Audit commentary

Meridian uses the MERG code for all MEP functions.

Audit outcome

Compliant

2.4. Communication Equipment Compatibility (Clause 40 Schedule 10.7)

Code reference

Clause 40 Schedule 10.7

Code related audit information

The MEP must ensure that the use of its communication equipment complies with the compatibility and connection requirements of any communication network operator the MEP has equipment connected to.

Audit observation

I checked that the ATH has a process to check the relevant type test certificates to ensure compliance with this clause.

Audit commentary

Meridian ensures all communication equipment is appropriately certified with the relevant telecommunications standards. This is recorded in type test certificates and other approval documents.

Audit outcome

Compliant

2.5. Participants to Provide Accurate Information (Clause 11.2 and Clause 10.6)

Code reference

Clause 11.2 and Clause 10.6

Code related audit information

The MEP must take all practicable steps to ensure that information that the MEP is required to provide to any person under Parts 10 and 11 is complete and accurate, not misleading or deceptive and not likely to mislead or deceive.

If the MEP becomes aware that in providing information under Parts 10 and 11, the MEP has not complied with that obligation, the MEP must, as soon as practicable, provide such further information as is necessary to ensure that the MEP does comply.

Audit observation

The main information that is provided is certification dates, which are then passed on to the reconciliation manager and registry. I checked the accuracy of these dates for 25 metering installations.

I also checked all registry information for the three installations at ICPs.

Audit commentary

All of the certification dates in the NSP table were accurate and the information in Meridian's spreadsheet records matched the certification reports.

The certification date for ICP 0000315340TPEFC is incorrect in the registry. The certification report has a certification date of 11/07/2024 but the registry has 11/06/2024. The certification report has an expiry date of 02/06/2027 but the registry has 02/05/2027, it appears the registry is correct, and the certification report is incorrect.

As recorded in section 4.10, two registry updates occurred with incorrect event dates.

Audit outcome

Non-compliant

Non-compliance	Description			
Audit Ref: 2.5	Incorrect certification date in the registry for ICP 0000315340TPEFC.			
With: Clause 10.6	Incorrect certification expiry date in the certification report for ICP 0000315340TPEFC.			
From: 14-Oct-22	Incorrect event dates for two ICPs.			
To: 19-Jun-24	Potential impact: Low			
10. 25 04 2 .	Actual impact: Low			
	Audit history: Twice			
	Controls: Moderate			
	Breach risk rating: 2			
Audit risk rating	Rationale for audit risk rating			
Low	The controls are recorded as moderate because they mitigate risk most of the time but there is room for improvement.			
	The impact on settlement and participants is minor; therefore, the audit risk rating is low.			
Actions taken to resolve the issue		Completion date	Remedial action status	
For 0000315340TPEFC we will correct the error in the Registry to the correct date ie 11/07/2024		5/09/2024	Identified	
Preventative actions taken to ensure no further issues will occur		Completion date		
We have asked Accucal to help us with monitoring expiry and Registry updates in the future to ensure they are correct		30/09/2024		

3. PROCESS FOR A CHANGE OF MEP

3.1. Payment of Costs to Losing MEP (Clause 10.22)

Code reference

Clause 10.22

Code related audit information

The MEP for a metering installation may change only if the responsible participant enters into an arrangement with another person to become the MEP for the metering installation, and if certain notification requirements are met (in relation to the registry and the reconciliation manager).

The losing MEP must notify the gaining MEP of the proportion of the costs within 40 business days of the gaining MEP assuming responsibility. The gaining MEP must pay the losing MEP within 20 business days of receiving notification from the losing MEP.

The costs are those directly and solely attributable to the certification and calibration tests of the metering installation or its components from the date of switch until the end of the current certification period.

The gaining MEP is not required to pay costs if the losing MEP has agreed in writing that the gaming MEP is not required to pay costs, or the losing MEP has failed to provide notice within 40 business days.

Audit observation

I checked whether any MEP switches had occurred.

Audit commentary

Meridian has not become the MEP for any additional points of connection.

Audit outcome

Not applicable

3.2. Registry Notification of Metering Records (Clause 2 of Schedule 11.4)

Code reference

Clause 2 of Schedule 11.4

Code related audit information

The gaining MEP must advise the registry of the registry metering records for the metering installation within 15 days of becoming the MEP for the metering installation.

Audit observation

I checked whether any MEP switches had occurred.

Audit commentary

Meridian has not become the MEP for any additional points of connection.

Audit outcome

Not applicable

3.3. Provision of Metering Records to Gaining MEP (Clause 5 of Schedule 10.6)

Code reference

Clause 5 of Schedule 10.6

Code related audit information

During an MEP switch, a gaining MEP may request access to the losing MEP's metering records.

On receipt of a request from the gaining MEP, the losing MEP has 10 business days to provide the gaining MEP with the metering records or the facilities to enable the gaining MEP to access the metering records.

The losing MEP must ensure that the metering records are only received by the gaining MEP or its contractor, the security of the metering records is maintained, and only the specific metering records required for the purposes of the gaining MEP exercising its rights and performing its obligations are provided.

Audit observation

I checked whether there were any requests for Meridian's records.

Audit commentary

There were no examples of Meridian being the losing MEP during the audit period.

Audit outcome

Not applicable

3.4. Termination of MEP Responsibility (Clause 10.23)

Code reference

Clause 10.23

Code related audit information

Even if the MEP ceases to be responsible for an installation, the MEP must either comply with its continuing obligations; or before its continuing obligations terminate, enter into an arrangement with a participant to assume those obligations.

The MEP is responsible if it:

- is identified in the registry as the primary metering contact or
- is the participant who owns the meter for the POC or to the grid or
- has accepted responsibility under clause 1(1)(a)(ii) of schedule 11.4 or
- has contracted with a participant responsible for providing the metering installation.

MEPs obligations come into effect on the date recorded in the registry as being the date on which the metering installation equipment is installed or, for an NSP the effective date set out in the NSP table on the Authority's website.

An MEPs obligations terminate only when:

- the ICP changes under clause 10.22(1)(a);
- the NSP changes under clause 10.22(1)(b), in which case the MEPs obligations terminate from the date on which the gaining MEP assumes responsibility:
- the metering installation is no longer required for the purposes of Part 15; or
- the load associated with an ICP is converted to be used solely for unmetered load.

Audit observation

Meridian has not ceased responsibility for any points of connection during the audit period.

Audit commentary

Meridian has not ceased responsibility for any points of connection during the audit period. I checked the records for 13 metering installations and confirmed they are available for at least four years.

Audit outcome

4. INSTALLATION AND MODIFICATION OF METERING INSTALLATIONS

4.1. Design Reports for Metering Installations (Clause 2 of Schedule 10.7)

Code reference

Clause 2 of Schedule 10.7

Code related audit information

The MEP must obtain a design report for each proposed new metering installation or a modification to an existing metering installation, before it installs the new metering installation or before the modification commences.

Clause 2(2) and (3)—The design report must be prepared by a person with the appropriate level of skills, expertise, experience and qualifications and must include a schematic drawing, details of the configuration scheme that programmable metering components are to include, confirmation that the configuration scheme has been approved by an approved test laboratory, maximum interrogation cycle, any compensation factor arrangements, method of certification required, and name and signature of the person who prepared the report and the date it was signed.

Clause 2(4)—The MEP must provide the design report to the certifying ATH before the ATH installs or modifies the metering installation (or a metering component in the metering installation).

Audit observation

I checked the design report for the newly certified metering installations at Harapaki, and design reports for Aviemore and Manapouri where changes were made.

Audit commentary

The design reports were produced prior to the planned changes. The reports were prepared by Power Systems Consultants NZ Limited and have sign off by Meridian and the ATH.

The design report contains all of the relevant points and was prepared by a person with the appropriate level of skills, expertise, experience and qualifications.

Audit outcome

Compliant

4.2. Contracting with ATH (Clause 9 of Schedule 10.6)

Code reference

Clause 9 of Schedule 10.6

Code related audit information

The MEP must, when contracting with an ATH in relation to the certification of a metering installation, ensure that the ATH has the appropriate scope of approval for the required certification activities.

Audit observation

I confirmed which ATH(s) had been used during the audit period, in order to check the Authority's website for scope of approval.

Audit commentary

Meridian used Ventia and Accucal as ATHs during the audit period, and they have current and appropriate scopes of approval.

Audit outcome

Compliant

4.3. Metering Installation Design & Accuracy (Clause 4(1) of Schedule 10.7)

Code reference

Clause 4(1) of Schedule 10.7

Code related audit information

The MEP must ensure:

- that the sum of the measured error and uncertainty does not exceed the maximum permitted error set out in Table 1 of Schedule 10.1 for the category of the metering installation
- the design of the metering installation (including data storage device and interrogation system)
 will ensure the sum of the measured error and the smallest possible increment of the energy
 value of the raw meter data does not exceed the maximum permitted error set out in Table 1 of
 Schedule 10.1 for the category of installation
- the metering installation complies with the design report and the requirements of Part 10.

Audit observation

I checked 25 certification reports to confirm compliance.

Audit commentary

With regard to the design of the installation (including data storage device and interrogation system), Meridian ensures the sum of the measured error and the smallest possible increment of the energy value of the raw meter data does not exceed the maximum permitted error set out in Table 1 of Schedule 10.1 for the category of installation. There are no components installed where "coarse" rounding is in place for the data or where meters with a low pulse rate are connected to separate data storage devices.

Meridian ensures the metering installation complies with the design report and the requirements of Part 10 by requiring the ATH to confirm the installation matches the design or by requiring updates to be provided if the installation does not match the design.

Audit outcome

4.4. Net metering and Subtractive Metering (Clause 10.13A and 4(2)(a) of Schedule 10.7)

Code reference

Clause 10.13A and Clause 4(2)(a) of Schedule 10.7

Code related audit information

MEPs must ensure that the metering installation records imported electricity separately from exported electricity. For category 1 and 2 installations the MEP must ensure the metering installation records imported and exported electricity separately for each phase.

For metering installations for ICPs that are not also NSPs, the MEP must ensure that the metering installation does not use subtraction to determine submission information used for the purposes of Part 15.

Audit observation

Meridian is responsible for metering installations at three ICPs. I checked whether subtraction was used.

Audit commentary

Meridian does not use subtraction for any metering installations at ICPs.

Audit outcome

Compliant

4.5. HHR Metering (Clause 4(2)(b) of Schedule 10.7)

Code reference

Clause 4(2)(b) of Schedule 10.7

Code related audit information

For metering installations for ICPs that are not also NSPs, the MEP must ensure that all category 3 or higher metering installations must be half-hour metering installations.

Audit observation

Meridian is responsible for metering installations at three ICPs. I checked whether they were HHR.

Audit commentary

All metering installations are HHR as required by this clause.

Audit outcome

4.6. NSP Metering (Clause 4(3) of Schedule 10.7)

Code reference

Clause 4(3) of Schedule 10.7

Code related audit information

The MEP must ensure that the metering installation for each NSP that is not connected to the grid does not use subtraction to determine submission information used for the purposes of Part 15 and is a half-hour metering installation.

Audit observation

I checked the NSP table to confirm whether Meridian was the MEP for any NSP metering.

Audit commentary

Meridian is not the MEP for any NSP metering, only grid connected metering.

Audit outcome

Not applicable

4.7. Responsibility for Metering Installations (Clause 10.26(10))

Code reference

Clause 10.26(10)

Code related audit information

The MEP must ensure that each point of connection to the grid for which there is a metering installation that it is responsible for has a half hour metering installation.

Audit observation

I checked the NSP table for any grid metering where Meridian is the MEP and checked the certification records to ensure HHR metering was present.

Audit commentary

Meridian is the MEP for some grid metering, and these installations are all HHR.

Audit outcome

Compliant

4.8. Suitability of Metering Installations (Clause 4(4) of Schedule 10.7)

Code reference

Clause 4(4) of Schedule 10.7

Code related audit information

The MEP must, for each metering installation for which it is responsible, ensure that it is appropriate having regard to the physical and electrical characteristics of the POC.

Audit observation

I checked the certification records for nine installations to confirm the accommodation was recorded as appropriate.

Audit commentary

Meridian's metering installations are all installed in appropriate accommodation.

Audit outcome

Compliant

4.9. Installation & Modification of Metering Installations (Clauses 10.34(2), (2A), 2(D) and (3))

Code reference

Clauses 10.34(2), (2A) and (3)

Code related audit information

If a metering installation is proposed to be installed or modified at a POC, other than a POC to the grid, the MEP must consult with and use its best endeavours, to agree with the distributor and the trader for that POC, before the design is finalised, on the metering installations:

- required functionality
- terms of use
- required interface format
- integration of the ripple receiver and the meter
- functionality for controllable load.

This includes where the MEP is proposing to replace a metering component or metering installations with the same or similar design and functionality but excludes where the MEP has already consulted on the design with the distributor and trader.

Each participant involved in the consultations must use its best endeavours to reach agreement and act reasonably and in good faith.

Audit observation

Meridian is the MEP for three non-grid connected ICPs. There have not been any design changes during the audit period.

Audit commentary

Meridian is the MEP for three non-grid connected ICPs. There have not been any design changes during the audit period.

Audit outcome

Not applicable

4.10. Changes to Registry Records (Clause 3 of Schedule 11.4)

Code reference

Clause 3 of Schedule 11.4

Code related audit information

If the MEP has an arrangement with the trader the MEP must advise the registry manager of the registry metering records, or any change to the registry metering records, for each metering installation for which it is responsible at the ICP, no later than 10 business days following:

- a) the electrical connection of the metering installation at the ICP
- b) any subsequent change to the metering installation's metering records

If the MEP is updating the registry in accordance with 8(11)(b) of Schedule 10.6, 10 business days after the most recent unsuccessful interrogation.

If update the registry in accordance with clause 8(13) of Schedule 10.6, 3 business days following the expiry of the time period or date from which the MEP determines it cannot restore communications.

Audit observation

Meridian has responsibility for metering installations at three ICPs. Some changes were made to registry records because of recertification and correction. I checked all updates.

Audit commentary

All three ICPs had updates, as summarised in the table below.

ICP	Update type	Days from event to update	Comments
0000031683WEDA7	Recertification	6	On time with correct event date
0000315340TPEFC	Recertification	27	Incorrect event date of the date of updating the registry not date of certification.
1001154460CK204	Correction	418	The ATH was corrected from TRSV to ACCM for certification occurring in 2022. The incorrect event date of the date of updating the registry not date of certification.

Audit outcome

Non-compliant

Non-compliance	Description				
Audit Ref: 4.10	Two incorrect event dates and two late updates.				
With: Clause 3 of	Potential impact: Low				
Schedule 11.4	Actual impact: Low				
	Audit history: Twice				
From: 14-Oct-22	Controls: Moderate				
To: 19-Jun-24	Breach risk rating: 2				
Audit risk rating	Rationale for audit risk rating				
Low	The controls are recorded as moderate because they mitigate risk most of the time but there is room for improvement.				
	The impact on settlement and participants is minor; therefore, the audit risk rating is low.				
Actions taken to resolve the issue		Completion date	Remedial action status		
We will correct the Registry for the incorrect date		5/09/2024	Identified		
Preventative actions taken to ensure no further issues will occur		Completion date			
We have asked Accucal to help us with monitoring expiry and Registry updates in the future to ensure they are correct		30/09/2024			

4.11. Metering Infrastructure (Clause 10.39(1))

Code reference

Clause 10.39(1)

Code related audit information

The MEP must ensure that for each metering installation:

- an appropriately designed metering infrastructure is in place
- each metering component is compatible with, and will not interfere with any other component in the installation
- collectively, all metering components integrate to provide a functioning system
- each metering installation is correctly and accurately integrated within the associated metering infrastructure.

Audit observation

Meridian does not manage a data collection system that would be considered "metering infrastructure".

Audit commentary

Meridian does not manage a data collection system that would be considered "metering infrastructure".

Audit outcome

Not applicable

4.12. Decommissioning of an ICP (Clause 10.23A)

Code reference

Clause 10.23A

Code related audit information

If a metering installation at an ICP is to be decommissioned, but the ICP is not being decommissioned, the MEP that is responsible for decommissioning the metering installation must:

- if the MEP is responsible for interrogating the metering installation, arrange for a final interrogation to take place before the metering installation is decommissioned, and provide the raw meter data from the interrogation to the responsible trader
- if another participant is responsible for interrogating the metering installation, advise the other participant not less than 3 business days before the decommissioning of the time and date of the decommissioning, and that the participant must carry out a final interrogation.

To avoid doubt, if a metering installation at an ICP is to be decommissioned because the ICP is being decommissioned:

- the trader, not the MEP, is responsible for arranging a final interrogation of the metering installation
- the responsible trader must arrange for a final interrogation of the metering installation

Audit observation

No ICPs have been decommissioned during the audit period.

Audit commentary

No ICPs have been decommissioned during the audit period.

Audit outcome

4.13. Measuring Transformer Burden and Compensation Requirements (Clause 31(4) and (5) of Schedule 10.7)

Code reference

Clause 31(4) and (5) of Schedule 10.7

Code related audit information

The MEP must, before approving the addition of, or change to, the burden or compensation factor of a measuring transformer in a metering installation, consult with the ATH who certified the metering installation.

If the MEP approves the addition of, or change to, the burden or compensation factor, it must ensure the metering installation is recertified by an ATH before the addition or change becomes effective.

Audit observation

This matter was discussed to identify any situations where burden changes could occur without recertification.

Audit commentary

Current transformers only have metering equipment connected. Some voltage transformers have other equipment connected and this equipment is included in the certification process, including the sealing information.

Audit outcome

Compliant

4.14. Changes to Software ROM or Firmware (Clause 39(1) and 39(2) of Schedule 10.7)

Code reference

Clause 39(1) and 39(2) of Schedule 10.7

Code related audit information

The MEP must, if it proposes to change the software, ROM or firmware of a data storage device installed in a metering installation, ensure that, before the change is carried out, an approved test laboratory:

- tests and confirms that the integrity of the measurement and logging of the data storage device would be unaffected
- documents the methodology and conditions necessary to implement the change
- advises the ATH that certified the metering installation of any change that might affect the accuracy of the data storage device.

The MEP must, when implementing a change to the software, ROM or firmware of a data storage device installed in a metering installation:

- carry out the change in accordance with the methodology and conditions identified by the approved test laboratory under clause 39(1)(b)
- keep a list of the data storage devices that were changed
- update the metering records for each installation affected with the details of the change and the methodology used.

Audit observation

I asked Meridian whether any relevant changes had occurred during the audit period.

Audit commentary

There were no firmware changes during the audit period. There were some during previous audits where the new firmware was supplied by the manufacturer. Ventia as an approved test laboratory, with assistance from Quasar, conducted the appropriate testing and documentation before loading the new firmware.

Audit outcome

Compliant

4.15. Temporary Electrical Connection (Clauses 10.29A)

Code reference

Clause 10.29A

Code related audit information

An MEP must not request that a grid owner temporarily electrically connect a POC to the grid unless the MEP is authorised to do so by the grid owner responsible for that POC and the MEP has an arrangement with that grid owner to provide metering services.

Audit observation

I asked Meridian whether temporary energisation had occurred for any metering installations.

Audit commentary

Temporary energisation has not occurred for any metering installations during the audit period.

Audit outcome

Not applicable

4.16. Temporary Electrical Connection (Clause 10.30A)

Code reference

Clause 10.30A

Code related audit information

An MEP must not request that a distributor temporarily electrically connect an NSP that is not a POC to the grid unless the MEP is authorised to do so by the reconciliation participant responsible for that NSP and the MEP has an arrangement with that reconciliation participant to provide metering services.

Audit observation

I checked whether there were any examples of temporary electrical connection for the purposes of testing.

Audit commentary

There were no examples of temporary electrical connection for the purposes of testing.

Audit outcome

Not applicable

4.17. Temporary Electrical Connection (Clause 10.31A)

Code reference

Clause 10.31A

Code related audit information

Only a distributor may, on its network, temporarily electrically connect an ICP that is not an NSP. A MEP may only request the temporary electrical connection of the ICP if it is for the purpose of certifying a metering installation, or for maintaining, repairing, testing, or commissioning a metering installation at the ICP.

Audit observation

I checked whether there were any examples of temporary electrical connection for the purposes of testing.

Audit commentary

There were no examples of temporary electrical connection for the purposes of testing.

Audit outcome

Not applicable

5. METERING RECORDS

5.1. Accurate and Complete Records (Clause 4(1)(a) and (b) of Schedule 10.6, and Table 1, Schedule 11.4)

Code reference

Clause 4(1)(a) and (b) of Schedule 10.6, and Table 1, Schedule 11.4

Code related audit information

The MEP must, for each metering installation for which it is responsible, keep accurate and complete records of the attributes set out in Table 1 of Schedule 11.4. These include:

- a) the certification expiry date of each metering component in the metering installation
- b) all equipment used in relation to the metering installation, including serial numbers and details of the equipment's manufacturer
- c) the manufacturer's or (if different) most recent test certificate for each metering component in the metering installation
- d) the metering installation category and any metering installations certified at a lower category
- e) all certification reports and calibration reports showing dates tested, tests carried out, and test results for all metering components in the metering installation
- f) the contractor who installed each metering component in the metering installation
- g) the certification sticker, or equivalent details, for each metering component that is certified under Schedule 10.8 in the metering installation:
- h) any variations or use of the 'alternate certification' process
- i) seal identification information
- *j)* any applicable compensation factors
- k) the owner of each metering component within the metering installation
- I) any applications installed within each metering component
- m) the signed inspection report confirming that the metering installation complies with the requirements of Part 10.

Audit observation

I checked the certification and inspection records for 25 metering installations to confirm compliance.

Audit commentary

The certification date for ICP 0000315340TPEFC is incorrect in the registry. The certification report has a certification date of 11/07/2024 but the registry has 11/06/2024. The certification report has an expiry date of 02/06/2027 but the registry has 02/05/2027, it appears the registry is correct, and the certification report is incorrect.

No other errors were identified.

Audit outcome

Non-compliant

Non-compliance	Description			
Audit Ref: 4.10 With: Clause 4(1)(a) and (b) of Schedule 10.6	Incorrect certification expiry date in the 0000315340TPEFC. Potential impact: Low Actual impact: Low Audit history: None	certification repo	ort for ICP	
From: 11-Jul-24	Controls: Strong			
To: 29-Aug-24	Breach risk rating: 1			
Audit risk rating	Rationale for audit risk rating			
Low	The controls are recorded as strong because they mitigate risk to an acceptable level. There hasn't been an impact on the market or other participants, therefore the risk rating is low.			
Actions taken to resolve the issue		Completion date	Remedial action status	
Accucal to be asked to correct the date in the Certification Report and resend it to us		30/09/2024	Identified	
Preventative actions taken to ensure no further issues will occur		Completion date		
Meridian to check the Certification dates are correct in all Certification Reports received from the Testhouse		In Progress		

5.2. Inspection Reports (Clause 4(2) of Schedule 10.6)

Code reference

Clause 4(2) of Schedule 10.6

Code related audit information

The MEP must, within 10 business days of receiving a request from a participant for a signed inspection report prepared under clause 44 of Schedule 10.7, make a copy of the report available to the participant.

Audit observation

I asked Meridian whether any requests had been made for copies of inspection reports.

Audit commentary

Meridian has not been requested to supply any inspection reports, but these are available and can be supplied on request.

Audit outcome

5.3. Retention of Metering Records (Clause 4(3) of Schedule 10.6)

Code reference

Clause 4(3) of Schedule 10.6

Code related audit information

The MEP must keep metering installation records for 48 months after any metering component is removed, or any metering installation is decommissioned.

Audit observation

I checked some metering records from 2020 to confirm compliance.

Audit commentary

Meridian keeps records indefinitely and the availability of the 2020 records confirms compliance.

Audit outcome

Compliant

5.4. Provision of Records to ATH (Clause 6 Schedule 10.6)

Code reference

Clause 6 Schedule 10.6

Code related audit information

If the MEP contracts with an ATH to recertify a metering installation and the ATH did not previously certify the metering installation, the MEP must provide the ATH with a copy of all relevant metering records not later than 10 business days after the contract comes into effect.

Audit observation

Meridian has provided information to ATH's in the past and this may occur in future. There are no current examples to examine.

Audit commentary

Meridian has provided information to ATH's in the past and this may occur in future. There are no current examples to examine.

Audit outcome

6. MAINTENANCE OF REGISTRY INFORMATION

6.1. MEP Response to Switch Notification (Clause 1(1) of Schedule 11.4)

Code reference

Clause 1(1) of Schedule 11.4

Code related audit information

Within 10 business days of being advised by the registry that it is the gaining MEP for the metering installation for the ICP, the MEP must enter into an arrangement with the trader and advise the registry it accepts responsibility for the ICP and of the proposed date on which it will assume responsibility.

Audit observation

Meridian has not become the gaining MEP for any metering installations.

Audit commentary

Meridian has not become the gaining MEP for any metering installations.

Audit outcome

Not applicable

6.2. Provision of Registry Information (Clause 7 (1), (1A), (2) and (3) of Schedule 11.4)

Code reference

Clause 7 (1), (1A), (2) and (3) of Schedule 11.4

Code related audit information

The MEP must provide the information indicated as being 'required' in Table 1 of clause 7 of Schedule 11.4 to the registry, in the prescribed form for each metering installation for which the MEP is responsible.

The MEP does not need to provide 'required' information if the information is only for the purpose of a distributor direct billing consumers on its network.

From 1 April 2015, a MEP is required to ensure that all the registry metering records of its category 1 metering installations are complete, accurate, not misleading or deceptive, and not likely to mislead or deceive.

The information the MEP provides to the registry must derive from the metering equipment provider's records or the metering records contained within the current trader's system.

Audit observation

I checked the registry records for all three ICPs Meridian is responsible for.

Audit commentary

The registry records are present for all fields. Accuracy is discussed in section 2.5, where some information is not accurate.

Audit outcome

6.3. Correction of Errors in Registry (Clause 6 of Schedule 11.4)

Code reference

Clause 6 of Schedule 11.4

Code related audit information

By 0900 hours on the 13th business day of each reconciliation period, the MEP must obtain from the registry:

- a list of ICPs for the metering installations the MEP is responsible for
- the registry metering records for each ICP on that list.

No later than five business days following collection of data from the registry, the MEP must compare the information obtained from the registry with the MEP's own records.

Within five business days of becoming aware of any discrepancy between the MEP's records and the information obtained from the registry, the MEP must correct the records that are in error and advise the registry of any necessary changes to the registry metering records.

Audit observation

Meridian keeps a copy of all registry records in a table, which is compared to a PR255 (metering details) report on a monthly basis. I observed this process.

Audit commentary

No errors have been detected during the audit period.

Audit outcome

Compliant

6.4. Cancellation of Certification (Clause 20 of Schedule 10.7)

Code reference

Clause 20 of Schedule 10.7

Code related audit information

The certification of a metering installation is automatically cancelled on the date on which one of the following events takes place:

- a) the metering installation is modified otherwise than under sub clause 19(3), 19(3A) or 19(3C)
- b) the metering installation is classed as outside the applicable accuracy tolerances set out in Table 1 of Schedule 10.1, defective or not fit for purpose under this Part or any audit
- c) an ATH advises the metering equipment provider responsible for the metering installation of a reference standard or working standard used to certify the metering installation not being compliant with this Part at the time it was used to certify the metering installation, or the failure of a group of meters in the statistical sampling recertification process for the metering installation, or the failure of a certification test for the metering installation
- d) the manufacturer of a metering component in the metering installation determines that the metering component does not comply with the standards to which the metering component was
- e) an inspection of the metering installation, that is required under this Part, is not carried out in accordance with the relevant clauses of this Part

- f) if the metering installation has been determined to be a lower category under clause 6 and:
 - (i) the MEP has not received the report under 6(2A)(a) or 6(2A)(b); or
 - (ii) the report demonstrates the maximum current is higher than permitted; or
 - (iii) the report demonstrates the electricity conveyed exceeds the amount permitted
- g) the metering installation is certified under clause 14 and sufficient load is available for full certification testing and has not been retested under clause 14(4)
- h) a control device in the metering installation certification is, and remains for a period of at least 10 business days, bridged out under clause 35(1)
- i) the metering equipment provider responsible for the metering installation is advised by an ATH under clause 48(6)(b) that a seal has been removed or broken and the accuracy and continued integrity of the metering installation has been affected.
- j) the installation is an HHR AMI installation certified after 29 August 2013 and
 - a. the metering installation is not interrogated within the maximum interrogation cycle; or
 - b. the HHR and NHH register comparison is not performed; or
 - c. the HHR and NHH register comparison for the same period finds a difference of greater than 1 kWh and the issue is not remediated within 3 business days

A metering equipment provider must (unless the installation has been recertified within the 10 business days) within 10 business days of becoming aware that one of the events above has occurred in relation to a metering installation for which it is responsible, update the metering installation's certification expiry date in the registry.

If any of the events in Clause 20(1)(j) of Schedule 10.7 have occurred, update the AMI flag in the registry to 'N'.

Audit observation

I checked point "e)" by reviewing Meridian's inspection schedule. I checked the remaining points through interview to determine whether any of the points above had occurred. I also checked a sample of 25 certification and inspection records.

Audit commentary

There were no late inspections and no examples of certification cancellation for other reasons were found.

Audit outcome

6.5. Registry Metering Records (Clause 11.8A)

Code reference

Clause 11.8A

Code related audit information

The MEP must provide the registry with the required metering information for each metering installation the MEP is responsible for and update the registry metering records in accordance with Schedule 11.4.

Audit observation

This clause refers to schedule 11.4 which is discussed in **section 6.2**, apart from the requirement to provide information in the "prescribed form". I checked for examples of Meridian not using the prescribed form.

Audit commentary

This clause refers to schedule 11.4 which is discussed in **section 6.2**, apart from the requirement to provide information in the "prescribed form". I checked for examples of Meridian not using the prescribed form and did not find any exceptions.

Audit outcome

7. CERTIFICATION OF METERING INSTALLATIONS

7.1. Certification and Maintenance (Clause 10.38 (a), clause 1 and clause 15 of Schedule 10.7)

Code reference

Clause 10.38 (a), clause 1 and clause 15 of Schedule 10.7

Code related audit information

The MEP must obtain and maintain certifications for all installations and metering components for which it is responsible. The MEP must ensure it:

- performs regular maintenance, battery replacement, repair/replacement of components of the metering installations
- updates the metering records at the time of the maintenance
- has a recertification programme that will ensure that all installations are recertified prior to expiry.

Audit observation

I checked the NSP table, Meridian's certification schedule and the records for 25 metering installations.

Audit commentary

The NSP table and the registry record that all installations have current certification. I checked the accuracy of the dates for 25 metering installations, and they were all correct.

Audit outcome

Compliant

7.2. Certification Tests (Clause 10.38(b) and clause 9 of Schedule 10.6)

Code reference

Clause 10.38(b) and clause 9 of Schedule 10.6

Code related audit information

For each metering component and metering installation an MEP is responsible for, the MEP must ensure that:

- an ATH performs the appropriate certification and recertification tests
- the ATH has the appropriate scope of approval to certify and recertify the metering installation.

Audit observation

I checked the certification records for 25 metering installations to confirm compliance.

Audit commentary

I confirm the appropriate tests are conducted and the results are recorded in all cases.

During the previous audit, I recorded that Ohau G8 and G11 did not have burden tests conducted, because the VT junction boxes could not be accessed. Meridian intended to move the burden resistors to the outside VT cubicles but has not been able to because shutdowns are not easy to arrange in the current environment where all possible generation needs to be running. A workaround is now in place, where burden measurements are taken at the meter, with an additional calculation for voltage drop between the VT and the meter. The most recent inspections have burden measurements taken.

Audit outcome

Compliant

7.3. Active and Reactive Capability (Clause 10.37(1) and 10.37(2)(a))

Code reference

Clause 10.37(1) and 10.37(2)(a)

Code related audit information

For any category 2 or higher half-hour metering installation that is certified after 29 August 2013, the MEP must ensure that the installation has active and reactive measuring and recording capability.

Consumption only installations that is a category 3 metering installation or above must measure and separately record:

- a) import active energy
- b) import reactive energy
- c) export reactive energy.

Consumption only installations that are a category 2 metering installation must measure and separately record import active energy.

All other installations must measure and separately record:

- a) import active energy
- b) export active energy
- c) import reactive energy
- d) export reactive energy.

All grid connected POCs with metering installations which are certified after 29 August 2013 should measure and separately record:

- a) import active energy
- b) export active energy
- c) import reactive energy
- d) export reactive energy.

Audit observation

I checked the certification records for 13 metering installations to confirm compliance.

Audit commentary

Certification records confirmed compliance with this clause.

Audit outcome

7.4. Local Service Metering (Clause 10.37(2)(b))

Code reference

Clause 10.37(2)(b)

Code related audit information

The accuracy of each local service metering installation in grid substations must be within the tolerances set out in Table 1 of Schedule 10.1.

Audit observation

This clause relates to Transpower as an MEP.

Audit commentary

This clause relates to Transpower as an MEP.

Audit outcome

Not applicable

7.5. Measuring Transformer Burden (Clause 30(1) and 31(2) of Schedule 10.7)

Code reference

Clause 30(1) and 31(2) of Schedule 10.7

Code related audit information

The MEP must not permit a measuring transformer to be connected to equipment used for a purpose other than metering, unless it is not practical for the equipment to have a separate measuring transformer.

The MEP must ensure that a change to, or addition of, a measuring transformer burden or a compensation factor related to a measuring transformer is carried out only by:

- a) the ATH who most recently certified the metering installation
- b) for a POC to the grid, by a suitably qualified person approved by both the MEP and the ATH who most recently certified the metering installation.

Audit observation

I checked the certification records for 25 metering installations and conducted a walk-through of the process.

Audit commentary

Current transformers only have metering equipment connected. Some voltage transformers have other equipment connected and this equipment is included in the certification process, including the sealing information.

Audit outcome

7.6. Certification as a Lower Category (Clauses 6(1)(b) and (d), and 6(2)(b) of Schedule 10.7)

Code reference

Clauses 6(1)(b) and (d), and 6(2)(b) of Schedule 10.7

Code related audit information

A category 2 or higher metering installation may be certified by an ATH at a lower category than would be indicated solely on the primary rating of the current if the MEP, based on historical metering data, reasonably believes that:

- the maximum current will at all times during the intended certification period be lower than the current setting of the protection device for the category for which the metering installation is certified, or is required to be certified by the Code; or
- the metering installation will use less than 0.5 GWh in any 12-month period.

If a metering installation is categorised under clause 6(1)(b), the ATH may, if it considers appropriate, and, at the MEP's request, determine the metering installation's category according to the metering installation's expected maximum current.

If a meter is certified in this manner:

- the MEP must, each month, obtain a report from the participant interrogating the metering installation, which details the maximum current from raw meter data from the metering installation by either calculation from the kVA by trading period, if available, or from a maximum current indicator if fitted in the metering installation conveyed through the point of connection for the prior month; and
- if the MEP does not receive a report, or the report demonstrates that the maximum current conveyed through the POC was higher than permitted for the metering installation category it is certified for, then the certification for the metering installation is automatically cancelled.

Audit observation

Meridian has not approved the certification of any metering installations as a lower category.

Audit commentary

Meridian has not approved the certification of any metering installations as a lower category.

Audit outcome

Not applicable

7.7. Insufficient Load for Certification Tests (Clauses 14(3) and (4) of Schedule 10.7)

Code reference

Clauses 14(3) and (4) of Schedule 10.7

Code related audit information

If there is insufficient electricity conveyed through a POC to allow the ATH to complete a prevailing load test for a metering installation that is being certified as a half hour meter and the ATH certifies the metering installation the MEP must:

- obtain and monitor raw meter data from the metering installation at least once each calendar month to determine if load during the month is sufficient for a prevailing load test to be completed:
- if there is sufficient load, arrange for an ATH to complete the tests (within 20 business days).

Audit observation

I checked one example of insufficient load certification during the audit period.

Audit commentary

There were no examples of insufficient load certification during the audit period.

Audit outcome

Compliant

7.8. Insufficient Load for Certification – Cancellation of Certification (Clause 14(6) of Schedule 10.7)

Code reference

Clause 14(6) of Schedule 10.7

Code related audit information

If the tests conducted under clause 14(4) of Schedule 10.7 demonstrate that the metering installation is not within the relevant maximum permitted error:

- the metering installation certification is automatically revoked:
- the certifying ATH must advise the MEP of the cancellation within 1 business day:
- the MEP must follow the procedure for handling faulty metering installations (clause 10.43 10.48).

Audit observation

There were no examples of insufficient load certification during the audit period.

Audit commentary

White Hill Windfarm, ICP 0000315340TPEFC, was certified on 11/07/2024 with insufficient load. Monitoring is occurring as required by this clause, and as soon as it is confirmed that the station will have sufficient wind to be generating for the period of the testing, the testing will be conducted.

Audit outcome

Compliant

7.9. Alternative Certification Requirements (Clauses 32(2), (3) and (4) of Schedule 10.7)

Code reference

Clauses 32(2), (3) and (4) of Schedule 10.7

Code related audit information

If an ATH cannot comply with the requirements to certify a metering installation due to measuring transformer access issues, and therefore certifies the metering installation in accordance with clause 32(1) of Schedule 10.7, the MEP must:

- advise the market administrator, by no later than 10 business days after the date of certification of the metering installation, of the details in clause 32(2)(a) of Schedule 10.7
- respond, within 5 business days, to any requests from the market administrator for additional information
- ensure that all of the details are recorded in the metering installation certification report
- take all steps to ensure that the metering installation is certified before the certification expiry date.

If the market administrator determines the ATH could have obtained access the metering installation is deemed to be defective, and the MEP must follow the process of handling faults metering installations in clauses 10.43 to 10.48.

Audit observation

I checked whether alternative certification has been applied.

Audit commentary

Alternative certification was applied for the two metering installations at Mill Creek Windfarm due to outage constraints. The certification reports were reviewed and they are accurate.

Audit outcome

Compliant

7.10. Timekeeping Requirements (Clause 23 of Schedule 10.7)

Code reference

Clause 23 of Schedule 10.7

Code related audit information

If a time keeping device that is not remotely monitored and corrected controls the switching of a meter register in a metering installation, the MEP must ensure that the time keeping device:

- a) has a time keeping error of not greater than an average of 2 seconds per day over a period of 12 months
- b) is monitored and corrected at least once every 12 months.

Audit observation

Meridian does not have any metering installations with time clocks.

Audit commentary

Meridian does not have any metering installations with time clocks.

Audit outcome

Not applicable

7.11. Control Device Bridged Out (Clause 35 of Schedule 10.7)

Code reference

Clause 35 of Schedule 10.7

Code related audit information

The participant must, within 10 business days of bridging out a control device or becoming aware of a control device being bridged out, notify the following parties:

- the relevant reconciliation participant
- the relevant metering equipment provider

If the control device is used for reconciliation, the metering installation is considered defective in accordance with 10.43.

Audit observation

Meridian does not have any control devices.

Audit commentary

Meridian does not have any control devices.

Audit outcome

Not applicable

7.12. Control Device Reliability Requirements (Clause 34(5) of Schedule 10.7)

Code reference

Clause 34(5) of Schedule 10.7

Code related audit information

If the MEP is advised by an ATH that the likelihood of a control device not receiving signals would affect the accuracy or completeness of the information for the purposes of Part 15, the MEP must, within 3 business days inform the following parties of the ATH's determination (including all relevant details):

- a) the reconciliation participant for the POC for the metering installation
- b) the control signal provider.

Audit observation

Meridian does not have any control devices.

Audit commentary

Meridian does not have any control devices.

Audit outcome

Not applicable

7.13. Statistical Sampling (Clauses 16(1) and (5) of Schedule 10.7)

Code reference

Clauses 16(1) and (5) of Schedule 10.7

Code related audit information

The MEP may arrange for an ATH to recertify a group of category 1 metering installations for which the MEP is responsible using a statistical sampling process.

The MEP must update the registry in accordance with Part 11 on the advice of an ATH as to whether the group meets the recertification requirements.

Audit observation

Meridian does not have any category 1 metering installations.

Audit commentary

Meridian does not have any category 1 metering installations.

Audit outcome

7.14. Compensation Factors (Clause 24(3) of Schedule 10.7)

Code reference

Clause 24(3) of Schedule 10.7

Code related audit information

If a compensation factor must be applied to a metering installation that is an NSP, the MEP must advise the reconciliation participant responsible for the metering installation of the compensation factor within 10 days of certification of the installation.

In all other cases the MEP must advise the registry of the compensation factor.

Audit observation

Meridian does not have any metering installations with external compensation factors.

Audit commentary

Meridian does not have any metering installations with external compensation factors.

Audit outcome

Not applicable

7.15. Metering Installations Incorporating a Meter (Clause 26(1) of Schedule 10.7)

Code reference

Clause 26(1) of Schedule 10.7

Code related audit information

The MEP must ensure that each meter in a metering installation it is responsible for is certified.

Audit observation

I checked the records for 25 metering installations to confirm compliance.

Audit commentary

Meters were certified in all cases.

Audit outcome

Compliant

7.16. Metering Installations Incorporating a Measuring Transformer (Clause 28(1) of Schedule 10.7)

Code reference

Clause 28(1) of Schedule 10.7

Code related audit information

The MEP must ensure that each measuring transformer in a metering installation it is responsible for is certified.

Audit observation

I checked the records for 25 metering installations to confirm compliance.

Audit commentary

Measuring transformers were certified in all cases.

Audit outcome

Compliant

7.17. Metering Installations Incorporating a Data Storage Device (Clause 36(1) of Schedule 10.7)

Code reference

Clause 36(1) of Schedule 10.7

Code related audit information

The MEP must ensure that each data storage device in a metering installation it is responsible for is certified.

Audit observation

I checked the records for 25 metering installations to confirm compliance.

Audit commentary

Data storage devices were certified in all cases.

Audit outcome

Compliant

7.18. Notification of ATH Approval (Clause 7 (3) Schedule 10.3)

Code reference

Clause 7 (3) Schedule 10.3

Code related audit information

If the MEP is notified by the Authority that an ATH's approval has expired, been cancelled or been revised, the MEP must treat all metering installations certified by the ATH during the period where the ATH was not approved to perform the activities as being defective and follow the procedures set out in 10.43 to 10.48.

Audit observation

I checked the approval for Ventia and Accucal.

Audit commentary

Both ATHs are approved with an appropriate scope.

Audit outcome

Compliant

7.19. Interim Certification (Clause 18 of Schedule 10.7)

Code reference

Clause 18 of Schedule 10.7

Code related audit information

The MEP must ensure that each interim certified metering installation on 28 August 2013 is certified by no later than 1 April 2015.

Audit observation

Meridian does not have any category 1 metering installations.

Audit commentary

Meridian does not have any category 1 metering installations.

Audit outcome

8. INSPECTION OF METERING INSTALLATIONS

8.1. Category 1 Inspections (Clause 45 of Schedule 10.7)

Code reference

Clause 45 of Schedule 10.7

Code related audit information

The MEP must ensure that category 1 metering installations (other than interim certified metering installations):

- have been inspected by an ATH within 126 months from the date of the metering installation's most recent certification or
- for each 12-month period, commencing 1 January and ending 31 December, ensure an ATH has completed inspections of a sample of the category 1 metering installations selected under clause 45(2) of Schedule 10.7.

Before a sample inspection process can be carried out, the MEP must submit a documented process for selecting the sample to the Electricity Authority, at least two months prior to first date on which the inspections are to be carried out, for approval (and promptly provide any other information the Authority may request).

The MEP must not inspect a sample unless the Authority has approved the documented process.

The MEP must, for each inspection conducted under clause 45(1)(b), keep records detailing:

- any defects identified that have affected the accuracy or integrity of the raw meter data recorded by the metering installation
- any discrepancies identified under clause 44(5)(b)
- relevant characteristics, sufficient to enable reporting of correlations or relationships between inaccuracy and characteristics
- the procedure used, and the lists generated, to select the sample under clause 45(2).

The MEP must, if it believes a metering installation that has been inspected is or could be inaccurate, defective or not fit for purpose:

- comply with clause 10.43
- arrange for an ATH to recertify the metering installation if the metering is found to be inaccurate under Table 1 of Schedule 10.1, or defective or not fit for purpose.

The MEP must by 1 April in each year, provide the Authority with a report that states whether the MEP has, for the previous 1 January to 31 December period, arranged for an ATH to inspect each category 1 metering installation for which it is responsible under clause 45(1)(a) or 45(1)(b).

This report must include the matters specified in clauses 45(8)(a) and (b).

If the MEP is advised by the Authority that the tests do not meet the requirements under clause 45(9) of Schedule 10.7, the MEP must select the additional sample under that clause, carry out the required inspections, and report to the Authority, within 40 business days of being advised by the Authority.

Audit observation

Meridian does not have any category 1 metering installations.

Audit commentary

Meridian does not have any category 1 metering installations.

Audit outcome

8.2. Category 2 to 5 Inspections (Clause 46(1) of Schedule 10.7)

Code reference

Clause 46(1) of Schedule 10.7

Code related audit information

The MEP must ensure that each category 2 or higher metering installation is inspected by an ATH at least once within the applicable period. The applicable period begins from the date of the metering installation's most recent certification and extends to:

- 120 months for Category 2
- 60 months for Category 3
- 30 months for Category 4
- 18 months for Category 5.

Audit observation

I checked Meridian's inspection and certification schedule and the records for 25 metering installations.

Audit commentary

There were no late inspections, and no inspections are overdue.

Audit outcome

Compliant

8.3. Inspection Reports (Clause 44(5) of Schedule 10.7)

Code reference

Clause 44(5) of Schedule 10.7

Code related audit information

The MEP must, within 20 business days of receiving an inspection report from an ATH:

- undertake a comparison of the information received with its own records
- investigate and correct any discrepancies
- update the metering records in the registry.

Audit observation

I checked the process for confirming the accuracy of records.

Audit commentary

Inspections are conducted with the previous certification records as the "base data". If any changes are required (a very rare event) they are made at the time of the inspection. Compliance is confirmed.

Audit outcome

8.4. Broken or removed seals (Clause 48(4) and (5) of Schedule 10.7)

Code reference

Clause 48(4) and (5) of Schedule 10.7

Code related audit information

If the MEP is advised of a broken or removed seal it must use reasonable endeavours to determine

- a) who removed or broke the seal,
- b) the reason for the removal or breakage

and arrange for an ATH to carry out an inspection of the removal or breakage and determine any work required to remedy the removal or breakage.

The MEP must make the above arrangements within

- a) three business days, if the metering installation is category 3 or higher
- b) 10 business days if the metering installation is category 2
- c) 20 business days if the metering installation is category 1.

If the MEP is advised under 48(1B)(c) or (48(1F)(d) the MEP must update the relevant meter register content code for the relevant meter channel.

Audit observation

I checked the process for the management of seals.

Audit commentary

Meridian has a process in place for the management of seals and any subsequent investigation and reporting. The ATHs maintain a database of seal information. There were no examples of missing or broken seals during the audit period.

Audit outcome

9. PROCESS FOR HANDLING FAULTY METERING INSTALLATIONS

9.1. Investigation of Faulty Metering Installations (Clause 10.43(4) and (5))

Code reference

Clause 10.43(4) and (5)

Code related audit information

If the MEP is advised or becomes aware that a metering installation may be inaccurate, defective, or not fit for purpose, it must investigate and report on the situation to all affected participants as soon as reasonably practicable after becoming aware of the information, but no later than:

- a) 20 business days for Category 1,
- b) 10 business days for Category 2 and
- c) five business days for Category 3 or higher.

Audit observation

Meridian advised that there were no examples of faulty installations where a statement of situation was required.

Audit commentary

Meridian advised that there were no examples of faulty installations where a statement of situation was required.

Audit outcome

Compliant

9.2. Testing of Faulty Metering Installations (Clause 10.44)

Code reference

Clause 10.44

Code related audit information

If a report prepared under clause 10.43(4)(c) demonstrates that a metering installation is inaccurate, defective, or not fit for purpose, the MEP must arrange for an ATH to test the metering installation and provide a 'statement of situation'.

If the MEP is advised by a participant under clause 10.44(2)(a) that the participant disagrees with the report that demonstrates that the metering installation is accurate, not defective and fit for purpose, the MEP must arrange for an ATH to:

- a) test the metering installation
- b) provide the MEP with a statement of situation within five business days of:
- c) becoming aware that the metering installation may be inaccurate, defective or not fit for purpose; or
- d) reaching an agreement with the participant.

The MEP is responsible for ensuring the ATH carries out testing as soon as practicable and provides a statement of situation.

Audit observation

Meridian advised that there were no examples of faulty installations where a statement of situation was required.

Audit commentary

Meridian advised that there were no examples of faulty installations where a statement of situation was required.

Audit outcome

Compliant

9.3. Statement of Situation (Clause 10.46(2))

Code reference

Clause10.46(2)

Code related audit information

Within three business days of receiving the statement from the ATH, the MEP must provide copies of the statement to:

- the relevant affected participants
- the market administrator (for all category 3 and above metering installations and any category 1 and category 2 metering installations) on request.

Audit observation

Meridian advised that there were no examples of faulty installations where a statement of situation was required.

Audit commentary

Meridian advised that there were no examples of faulty installations where a statement of situation was required.

Audit outcome

Compliant

9.4. Timeframe for correct defects and inaccuracies (Clause 10.46A)

Code reference

Clause10.46A

Code related audit information

When the metering equipment provider is advised under 10.43 or becomes aware a metering installation it is responsible for is inaccurate, defective or not fit for purpose the metering equipment provider must undertake remedial actions to address the issue.

The metering equipment provider must use its best endeavours to complete the remedial action within 10 business days of the date it is required to provide a report to participants under 10.43(4)(c).

Audit observation

Meridian advised that there were no examples of faulty installations where a statement of situation was required.

Audit commentary

Meridian advised that there were no examples of faulty installations where a statement of situation was required.

Audit outcome

10. ACCESS TO AND PROVISION OF RAW METER DATA AND METERING INSTALLATIONS

10.1. Access to Raw Meter Data (Clause 1 of Schedule 10.6)

Code reference

Clause 1 of Schedule 10.6

Code related audit information

The MEP must give authorised parties access to raw meter data within 10 business days of receiving the authorised party making a request.

The MEP must only give access to raw meter data to a trader or person, if that trader or person has entered into a contract to collect, obtain, and use the raw meter data with the end customer.

The MEP must provide the following when giving a party access to information:

- a) the raw meter data; or
- b) the means (codes, keys etc.) to enable the party to access the raw meter data.

The MEP must, when providing raw meter data or access to an authorised person use appropriate procedures to ensure that:

- the raw meter data is received only by that authorised person or a contractor to the person
- the security of the raw meter data and the metering installation is maintained
- access to the raw meter data is limited to only the specific raw meter data under clause 1(7)(c) of Schedule 10.6.

Audit observation

Meridian as an MEP does not control access to raw meter data. Meridian as a participant will consider requests for access to data or components.

Audit commentary

Meridian as an MEP does not control access to raw meter data. Meridian as a participant will consider requests for access to data or components.

Audit outcome

Not applicable

10.2. Restrictions on Use of Raw Meter Data (Clause 2 of Schedule 10.6)

Code reference

Clause 2 of Schedule 10.6

Code related audit information

The MEP must not give an authorised person access to raw meter data if to do so would breach clause 2(1) of Schedule 10.6.

Audit observation

Meridian as an MEP does not control access to raw meter data. Meridian as a participant will consider requests for access to data or components.

Audit commentary

Meridian as an MEP does not control access to raw meter data. Meridian as a participant will consider requests for access to data or components.

Audit outcome

Not applicable

10.3. Access to Metering Installations (Clause 3(1), (3) and (4) of Schedule 10.6)

Code reference

Clause 3(1), (3) and (4) of Schedule 10.6

Code related audit information

The MEP must within 10 business days of receiving a request from one of the following parties, arrange physical access to each component in a metering installation:

- a relevant reconciliation participant with whom it has an arrangement (other than a trader)
- the Authority
- an ATH
- an auditor
- a gaining MEP.

This access must include all necessary means to enable the party to access the metering components

When providing access, the MEP must ensure that the security of the metering installation is maintained and physical access is limited to only the access required for the purposes of the Code, regulations in connection with the party's administration, audit and testing functions.

Audit observation

Meridian can facilitate physical access as required. No requests have been made.

Audit commentary

Meridian can facilitate physical access as required. No requests have been made.

Audit outcome

Compliant

10.4. Urgent Access to Metering Installations (Clause 3(5) of Schedule 10.6)

Code reference

Clause 3(5) of Schedule 10.6

Code related audit information

If the party requires urgent physical access to a metering installation, the MEP must use its best endeavours to arrange physical access.

Audit observation

Meridian can facilitate physical access as required. No requests have been made.

Audit commentary

Meridian can facilitate physical access as required. No requests have been made.

Audit outcome

10.5. Electronic Interrogation of Metering Installations (Clause 8 of Schedule 10.6)

Code reference

Clause 8 of Schedule 10.6

Code related audit information

When raw meter data can only be obtained from an MEP's back office, the MEP must

- ensure that the interrogation cycle does not exceed the maximum interrogation cycle shown in the registry
- interrogate the metering installation at least once within each maximum interrogation cycle.

When raw meter data can only be obtained from an MEP's back office, the MEP must ensure that the internal clock is accurate, to within ±5 seconds of:

- New Zealand standard time; or
- New Zealand daylight time.

When raw meter data can only be obtained from an MEP's back office, the MEP must record in the interrogation and processing system logs, the time, the date, and the extent of any change in the internal clock setting in the metering installation.

When raw meter data can only be obtained from an MEP's back office, the MEP must ensure that a data storage device in a metering installation does not exceed the maximum time error set out in Table 1 of clause 8(5) of Schedule 10.6.

The MEP must compare the time on the internal clock of the data storage device with the time on the interrogation and processing system clock, calculate and correct (if required by this provision) any time error, and advise the affected reconciliation participant.

When raw meter data can only be obtained from an MEP's back office, the MEP must, when interrogating a metering installation, download the event log, check the event log for evidence of an events that may affect the integrity or operation of the metering installation, such as malfunctioning or tampering.

The MEP must investigate and remediate any events and advise the reconciliation participant.

The MEP must ensure that all raw meter data that can only be obtained from the MEPs back office, that is downloaded as part of an interrogation, and that is used for submitting information for the purpose of Part 15 is archived:

- for no less than 48 months after the interrogation date
- in a form that cannot be modified without creating an audit trail
- in a form that is secure and prevents access by any unauthorised person

in a form that is accessible to authorised personnel.

Audit observation

Meridian does not conduct electronic data collection as an MEP.

Audit commentary

Meridian does not conduct electronic data collection as an MEP.

Audit outcome

10.6. Security of Metering Data (Clause 10.15(2))

Code reference

Clause 10.15(2)

Code related audit information

The MEP must take reasonable security measures to prevent loss or unauthorised access, use, modification or disclosure of the metering data.

Audit observation

Meridian does not conduct electronic data collection as an MEP.

Audit commentary

Meridian does not conduct electronic data collection as an MEP.

Audit outcome

Not applicable

10.7. Time Errors for Metering Installations (Clause 8(4) of Schedule 10.6)

Code reference

Clause 8(4) of Schedule 10.6

Code related audit information

When raw meter data can only be obtained from the MEPs back office, the MEP must ensure that the data storage device it interrogates does not exceed the maximum time error set out in Table 1 of clause 8(5) of Schedule 10.6.

Audit observation

Meridian does not conduct electronic data collection as an MEP.

Audit commentary

Meridian does not conduct electronic data collection as an MEP.

Audit outcome

Not applicable

10.8. Event Logs (Clause 8(7) of Schedule 10.6)

Code reference

Clause 8(7) of Schedule 10.6

Code related audit information

When raw meter data can only be obtained from the MEP's back office, the MEP must, when interrogating a metering installation:

- a) ensure an interrogation log is generated
- b) review the event log and:
 - i. take appropriate action
 - ii. pass the relevant entries to the reconciliation participant.

- c) ensure the log forms part of an audit trail which includes:
 - i. the date and
 - ii. time of the interrogation
 - iii. operator (where available)
 - iv. unique ID of the data storage device
 - v. any clock errors outside specified limits
 - vi. method of interrogation
 - vii. identifier of the reading device used (if applicable).

Audit observation

Meridian does not conduct electronic data collection as an MEP.

Audit commentary

Meridian does not conduct electronic data collection as an MEP.

Audit outcome

Not applicable

10.9. Comparison of HHR Data with Register Data (Clause 8(9) of Schedule 10.6)

Code reference

Clause 8(9) of Schedule 10.6

Code related audit information

When raw meter data can only be obtained from the MEP's back office, the MEP must ensure that each electronic interrogation that retrieves half-hour metering information compares the information against the increment of the metering installations accumulating meter registers.

Audit observation

Meridian does not conduct electronic data collection as an MEP.

Audit commentary

Meridian does not conduct electronic data collection as an MEP.

Audit outcome

Not applicable

10.10. Correction of Raw Meter Data (Clause 10.48(2),(3))

Code reference

Clause 10.48(2),(3)

Code related audit information

If the MEP is notified of a question or request for clarification in accordance with clause 10.48(1), the MEP must, within 10 business days:

- respond in detail to the questions or requests for clarification
- advise the reconciliation participant responsible for providing submission information for the POC of the correction factors to apply and period the factors should apply to.

Audit observation

Meridian advised that there were no examples of faulty installations where a statement of situation was required.

Audit commentary

Meridian advised that there were no examples of faulty installations where a statement of situation was required.

Audit outcome

Compliant

10.11.Raw meter data and compensation factors (Clause 8(10) of Schedule 10.6)

Code reference

Clause 8(10) of Schedule 10.6

Code related audit information

The MEP must not apply the compensation factor recorded in the registry to raw meter data downloaded as part of the interrogation of the metering installation.

Audit observation

I checked if Meridian applies any compensation factors to raw meter data.

Audit commentary

No compensation factors are applied by Meridian as an MEP.

Audit outcome

Not applicable

10.12.Investigation of AMI interrogation failures (Clause 8(11), 8(12) and 8(13) of Schedule 10.6)

Code reference

Clause 8(11), 8(12) and 8(13) of Schedule 10.6

Code related audit information

If an interrogation does not download all raw meter data, the MEP must investigate the registry why or update the registry to show the meter is no longer AMI.

If the MEP choses to investigate the reasons for the failure the MEP has no more than 30 days or 25% of the maximum interrogation cycle, from the date of the last successful interrogation (whichever is shorter).

If the MEP does not restore communications within this time or determines they will be unable to meet this timeframe they must update the registry to show the meter is no longer AMI.

Audit observation

I checked if Meridian has any AMI meters.

Audit commentary

Meridian do not have any AMI meters.

Audit outcome

CONCLUSION

Meridian is an MEP and is required to undergo an audit by 4 September 2024, in accordance with clause 1(1) of schedule 10.5.

Meridian's controls continue to ensure a high level of compliance. Three non-compliances are recorded, two related to the accuracy and timeliness of registry updates, and on related to an incorrect date in a certification report.

The date of the next audit is determined by the Electricity Authority and is dependent on the level of compliance during this audit. The table below provides some guidance on this matter and contains a future risk rating score of five, which results in an indicative audit frequency of 24 months. I believe 24 months is an appropriate recommendation.

PARTICIPANT RESPONSE