ELECTRICITY INDUSTRY PARTICIPATION CODE METERING EQUIPMENT PROVIDER AUDIT REPORT

For

Alinta Energy

Prepared by: Allan Borcoski

Date audit commenced: 14 January 2021

Date audit report completed: 20 January 2021

Audit report due date: 21-Jan-21

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EXECUTIVE SUMMARY

This participant audit was performed at the request of Alinta Energy to encompass the Authority's request for an audit, as required by clause 10.20, of Part 10, of the Electricity Industry Participation Code 2010.

The relevant clauses were audited as required by the Guidelines for Metering Equipment Provider v.2.0 issued by the Electricity Authority.

Alinta Energy provides the MEP services for two category 5 metering installations at ICPs 0716190001NSCCC and 0716190002NS00C installed at NZ Steel. Alinta Energy do not provide MEP services to any other participants therefore there are no other Registry transactions to review other than updating installation certification information following re-certification. The MEP functions are effectively managed with tools such as the asset management system MAXIMO providing useful support.

The audit did not identify any non-compliance and the breach rating risk total is 0.

The date of the next audit is determined by the Electricity Authority and it is dependent on the level of compliance during this audit. Based on Table 1 of the Guidelines for Reconciliation Participant audit, the next audit should happen within the next 36 months. Our recommendation is to conduct the next audit in 36 months.

We thank the Alinta Energy staff for their full and complete cooperation in this audit.

The audit period was 21 January 2019 to 18 January 2021.

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AUDIT SUMMARY

NON-COMPLIANCES

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

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	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.

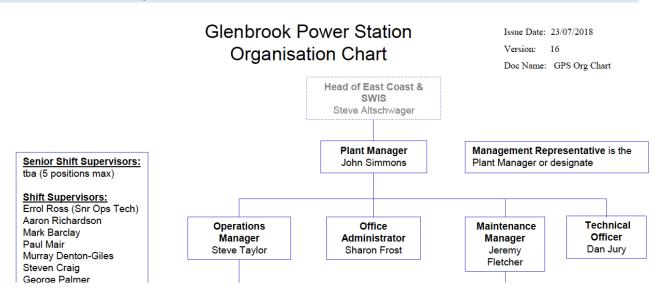
Audit observation

The Electricity Authority website was checked, and it is confirmed that there are no exemptions in place that apply for Alinta Energy during this audit period.

Audit commentary

The Electricity Authority has not exempted Alinta Energy from compliance with all or any of the clauses.

1.2. Structure of Organisation



1.3. Persons involved in this audit

Name	Title	Company
Dan Jury	Technical Officer	Alinta Energy Ltd
Allan Borcoski	Electricity Authority Approved Auditor	Borcoski Energy Services Ltd

1.4. Use of Agents (Clause 10.3)

Code reference

Clause 10.3

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Code related audit information

A participant who uses a contractor

- 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 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

This was checked with Alinta Energy Staff. Alinta Energy does not use agents for the functions covered by this audit

Audit commentary

All functions covered in this audit are performed in-house by Alinta Energy Staff.

1.5. Hardware and Software

Alinta Energy does not use any specialist software to fulfil the MEP obligations. All data entry is completed through the web interface. MAXIMO the asset management tool is used to schedule and mange metering installation tasks such as certification, inspection and battery replacement.

1.6. Breaches or Breach Allegations

A check of the Electricity Authority Website shows no code breaches during this audit period.

1.7. ICP Data

Metering Category	Number of ICPs	
1	0	
2	0	
3	0	
4	0	
5	2	 0716190001NSCCC – Power Station CB516 – TG1 0716190002NS00C – Power Station CB548 – TG2

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1.8. Authorisation Received

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Alinta Energy provided a letter of authorisation to Borcoski Energy Services Ltd enabling the collection of data from other parties for matters directly related to the audit.

1.9. Scope of Audit

This participant audit was performed at the request of Alinta Energy to encompass the Authority's request for an audit as required by clause 10.20, of Part 10, of the Electricity Industry Participation Code.

The audit covered the following functions:

- (a) The management and maintenance of each metering installation for which the MEP is responsible. This includes the maintenance of metering records, metering components, certification, inspections and investigations.
- (b) Provision of metering records to the registry and reconciliation manager.
- (c) Provision of access under Part 10 to raw meter data, metering records, and the metering installation.
- (d) The security of each meter installation, back office system and communication between the metering installation and back office system that the MEP is responsible for.

The purpose of the audit regime is to evaluate participants' compliance with the Code, to enable the Authority to make informed decision regarding audit of frequency of participants. Important part of the audit is an assessment of controls (processes) which assist to the company to meet their obligation as described in the Code.

The Audit findings were obtained by observation, discussion with Alinta Energy Staff, review of systems, processes and records and analysis of information provided by Alinta Energy Staff and the registry.

The audit was carried out by teleconference and online information sharing between 14 - 20 January 2021.

1.10. Summary of previous audit

The following non-compliances were found during the last audit.

Subject	Section	Clause	Non-Compliance	Comment
			Nil	

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

This was discussed with Alinta Energy Staff.

Audit commentary

The two metering installations for which Alinta Energy are responsible for MEP services are read remotely by EMS using PSTN landlines.

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

This was discussed with Alinta Energy Staff.

Audit commentary

As a trader Alinta Energy has a procedure in place specifying how disputes between participants will be resolved if the need arises.

There have been no disputes with other participants during this audit period.

Audit outcome

Compliant

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.

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Audit observation

This was discussed with Alinta Energy Staff and the Registry was checked.

Audit commentary

The two ICPs were checked in the Registry and it was confirmed that the assigned four letter participant identifier ALNT was used to identify Alinta Energy activity.

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

This was discussed with Alinta Energy Staff and two metering certification reports were checked.

Audit commentary

The two metering installations for which Alinta Energy are responsible for MEP services are read remotely by EMS using PSTN landlines. Both modems were tested when the metering installations were re-certified in September 2020, the certification reports checked recorded the successful tests. No incompatibility issues have been observed during the audit period.

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

This was discussed with Alinta Energy Staff, two metering certification reports and the Registry were checked.

Audit commentary

Checks confirmed the information in the registry provided by Alinta Energy is accurate, complete and updated on time.

Audit outcome

Compliant

3. PROCESS FOR A CHANGE OF MEP

3.1. Change of metering equipment provider (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 requirements are met in relation to updating the registry and advising the reconciliation manager.

The gaining MEP must pay the losing MEP a proportion of the costs within 20 business days of assuming responsibility.

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.

Audit observation

This was discussed with Alinta Energy Staff.

Audit commentary

Alinta Energy's business model is to be the MEP only for metering installations associated to the generation assets Alinta Energy NZ ltd operates. Alinta energy does not offer MEP services to other participants.

This clause is not applicable. Compliance was not assessed.

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 manager of the registry metering records for the metering installation within 15 days of becoming the MEP for the metering installation.

Audit observation

This was discussed with Alinta Energy Staff and the Registry was checked.

Audit commentary

Alinta Energy's business model is to be the MEP only for metering installations associated to the generation assets Alinta Energy NZ ltd operates. Alinta energy does not offer MEP services to other participants. A check of the Registry confirms this.

This clause is not applicable. Compliance was not assessed.

Audit outcome

Not applicable

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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

This was discussed with Alinta Energy Staff and the Registry was checked.

Audit commentary

Alinta Energy's business model is to be the MEP only for metering installations associated to the generation assets Alinta Energy NZ ltd operates. Alinta energy does not offer MEP services to other participants. A check of the Registry confirms this.

This clause is not applicable. Compliance was not assessed.

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

The code requirement was discussed with Alinta Energy Staff.

Audit commentary

Metering data and information has been kept since the beginning of the MEP function and a full metering history for the ICP has been retained. Alinta Energy keeps data records indefinitely in a document management system that is backed up regularly.

Audit outcome

Compliant

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

The code requirement was discussed with Alinta Energy Staff.

Audit commentary

The 2 x metering installations Alinta Energy are responsible for were designed and installed in 1987 when the plant was commissioned. Alinta Energy Staff advise no changes to the metering installations have been made since they were commissioned.

Alinta Energy Staff advised they were aware of this clause and if a new metering installation or modification was required they would engage AccuCal to carry out the design report and consequent modification work.

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

This was discussed with Alinta Energy Staff the Electricity Authority website, Registry and two metering certification reports were checked.

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Audit commentary

Alinta Energy uses AccuCal ATH:

Approved Test House	Metering Installation Category	Approved Certification Scope	
AccuCal (class A)	Cat 3 HVCat 4 HVCat 5 HV	Y	

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

This was discussed with Alinta Energy Staff and two metering certification reports were checked.

Audit commentary

Certificates of compliance and associated certification reports were checked for the metering installations at ICP's 0716190001NSCCC and 0716190002NS00C and it was confirmed that they met code requirement. A summary of the results for each metering installation below:

ICP	Certification Number	Certification Date	АТН			
0716190002NS00C	CERT-2020-1001	08-Sep-2020	AccuCal			
Overall Installation Errors (calculated for 5 to 120% of Load Range of Installation)						
Overall error calculation covers 80% through 120% of rated voltage, 5% through 120% of rated current.	Max Positive Error (%)	Max Negative Error (%)	Max Expanded Installation Uncertainty (%)			
Watthour Measurement 0.5 Lagging thru 0.8 Leading P.F	+ 0.474	- 0.110	+/- 0.13			

Varhour Measurement 0.5 Lagging thru	+ 0.485	- 0.110	+/- 0.13
0.5 Leading P.F.			

ICP	Certification Number		Certification Date		АТ	АТН	
0716190001NSCCC	CERT-2020-1000		08-Sep-2020 A		Ac	cuCal	
Overall Installation Errors (calculated for 5 to 120% of Load Range of Installation)					Installation)		
		Max P Error (ositive (%)	Max Negativ Error (%)	ve	Max Expanded Installation Uncertainty (%)	
Watthour Measurement 0.8 Leading P.F	0.5 Lagging thru	+	0.445	- 0.103		+/- 0.13	
Varhour Measurement 0 0.5 Leading P.F.).5 Lagging thru	+	0.452	- 0.103		+/- 0.13	

Audit outcome

Compliant

4.4. Subtractive Metering (Clause 4(2)(a) of Schedule 10.7)

Code reference

Clause 4(2)(a) of Schedule 10.7

Code related audit information

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

This was discussed with Alinta Energy Staff and two metering certification reports were checked.

Audit commentary

Alinta Energy is responsible for two category 5 metering installations. A check of the metering certification reports confirmed subtraction was not used to determine submission information from either of them.

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

This was discussed with Alinta Energy Staff and two metering certification reports were checked.

Audit commentary

The two metering certification reports examined confirmed that half-hour metering installations were installed at both ICP's see below:

Certification Date: 08-Sep-2020

Certification Date: 08-Sep-2020

Certification Report No. CERT-2020-1000

	Site / Installation Details				
Installation	Glenbrook Power Station - OCB 516 - TG	1 ICP Number	0716190001NSCCC		
Street address	PO Box 60,	Certified For	Alinta Energy NZ Ltd		
Locality, City	Waiuku.	Client Reference	N/A		
Retailer	NZ Steel	Date of installation	Existing		
Date of certification	08-Sep-2020	Certification expiry	08-Sep-2023		
	Miscellaneous Site / Installation	/ Design Details			
Meterboard location	Miscellaneous Site / Installation				
Meterboard location Installation is					
Installation is	11kV OCB				
Installation is Installation category Reason for certification	11kV OCB : Existing Cat 5 Meter Re-C	ertification			
Installation is Installation category	11kV OCB : Existing Cat 5	ertification			

Certification Report No. CERT-2020-1001

Site / Installation Details					
Installation	Glenbrook Power Station - C	B548 – TA2	ICP Number	0716190002NS00C	
Street address	Glenbrook Steel Mill,		Certified For	Alinta Energy NZ Ltd	
Locality, City	Waiuku.		Client Reference	N/A	
Retailer	NZ Steel		Date of installation	Existing	
Date of certification	08-Sep-2020	(Certification expiry	08-Sep-2023	
	Miscellaneous Site / Installation / Design Details				
Meterboard location 11kV OCB 548					
Installation is					
Installation category	nstallation category Cat 5				
Reason for certification	eason for certification Meter Re-Certification				
nstallation is HV or LV High Voltage					
Installation is HHR, NHH	nstallation is HHR, NHH or AMI HHR (Half Hour)				

Audit outcome

Compliant

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

This was discussed with Alinta Energy Staff.

Audit commentary

Alinta Energy Staff confirm the MEP is not responsible for or provide MEP services for any NSP metering installations.

This clause is not applicable. Compliance was not assessed.

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

This was discussed with Alinta Energy Staff.

Audit commentary

Alinta Energy Staff confirm the MEP is not responsible for or provide MEP services for any point of connection to the grid.

This clause is not applicable. Compliance was not assessed.

Audit outcome

Not applicable

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

This was discussed with Alinta Energy Staff and two metering certification reports were checked.

Audit commentary

The two metering certification reports examined confirmed that each metering installation was appropriate having regard to the physical and electrical characteristics of the POC.

Audit outcome

Compliant

4.9. Installation & Modification of Metering Installations (Clauses 10.34(2), (2A) 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 installation's:

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

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

Audit observation

This was discussed with Alinta Energy Staff, two metering certification reports and inspection reports were checked.

Audit commentary

Examination of both the inspection reports completed in April 2019 and the certification reports September 2020 confirmed there were no modifications to the existing metering installations during the audit period. Alinta Energy Staff also confirm no new metering installations were installed during the audit period.

Alinta Energy Staff are aware of their obligations with respect to this clause.

Audit outcome

Compliant

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

Code reference

Clause 3 of Schedule 11.4

Code related audit information

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:

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

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Audit observation

This was discussed with Alinta Energy Staff. The Registry and two metering certification reports were checked.

Audit commentary

Alinta Energy is responsible for two category 5 metering installations. Both metering installations were recertified on 08 September 2020. The Registry was updated on 15 September 2020 with the new certification information (5 business days).

Audit outcome

Compliant

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

This was discussed with Alinta Energy Staff, two metering certification reports and inspection reports were checked.

Audit commentary

Alinta Energy is responsible for two category 5 metering installations. Examination of both the inspection reports completed in April 2019 and the certification reports September 2020 confirmed the metering installations were operating as designed during the audit period. Both metering installations were recertified on 08 September 2020.

Audit outcome

Compliant

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

This was discussed with Alinta Energy Staff and the Registry was checked.

Audit commentary

Alinta Energy has not decommissioned any ICPs during the audit period. A check of the registry confirmed this.

Audit outcome

Compliant

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 was discussed with Alinta Energy Staff, two metering certification reports and inspection reports were checked.

Audit commentary

A review of the two metering certification reports and inspection reports confirmed there were no changes to measuring transformer burden or compensation factor on the two metering installations Alinta Energy are responsible for during the audit period.

Alinta Energy Staff are aware of their obligations with respect to this clause.

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

This was discussed with Alinta Energy Staff, two metering certification reports and inspection reports were checked.

Audit commentary

A review of the two metering certification reports and inspection reports confirmed there were no changes to software ROM or Firmware on the two metering installations Alinta Energy are responsible for during the audit period.

Alinta Energy Staff are aware of their obligations with respect to this clause.

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

This was discussed with Alinta Energy Staff.

Audit commentary

Alinta Energy does not provide MEP services to grid owners.

This clause is not applicable. Compliance was not assessed.

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

This was discussed with Alinta Energy Staff.

Audit commentary

Alinta Energy does not provide MEP services for new connections.

This clause is not applicable. Compliance was not assessed.

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.

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Audit observation

This was discussed with Alinta Energy Staff.

Audit commentary

Alinta Energy does not provide MEP services for new connections.

This clause is not applicable. Compliance was not assessed.

Audit outcome

Not applicable

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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

This was discussed with Alinta Energy Staff, two metering certification reports and inspection reports were checked.

Audit commentary

A review of the two metering certification reports (08 Sept 2020) and inspection reports (02 April 2019) confirmed that valid certificates of compliance for all metering components and installations are held by Alinta Energy. The certificates of compliance were issued by AccuCal.

The certification documents are stored electronically on a secure server, backed up on a regular basis.

Audit outcome

Compliant

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

Code reference

Clause 4(2) of Schedule 10.6

Code related audit information

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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

This was discussed with Alinta Energy Staff, two metering certification reports and inspection reports were checked.

Audit commentary

Alinta Energy Staff advise that during this audit period there were no requests for inspection reports made.

If a participant were to request an inspection report an appropriate report would be made available.

Audit outcome

Compliant

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

This was discussed with Alinta Energy Staff, two metering certification reports and inspection reports were checked.

Audit commentary

Metering data and information has been retained since the metering installations were commissioned in 1987. Alinta Energy keeps data records indefinitely in a document management system that is backed up regularly.

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

This was discussed with Alinta Energy Staff, two metering certification reports and inspection reports were checked.

Audit commentary

Alinta Energy has engaged AccuCal to carry out certification, inspection and maintenance work on their metering installations for a number of years. There are no plans to change these arrangements in the near future. If a change of ATH were to be made Alinta Energy Staff are aware of their obligations with respect to this clause.

Audit outcome

Compliant

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 manager 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 manager it accepts responsibility for the ICP and of the proposed date on which it will assume responsibility.

Audit observation

This was discussed with Alinta Energy Staff and the Registry was checked.

Audit commentary

Alinta Energy's business model is to be the MEP only for metering installations associated to the generation assets Alinta Energy NZ ltd operates. Alinta energy does not offer MEP services to other participants. A check of the Registry confirms this.

This clause is not applicable. Compliance was not assessed.

Audit outcome

Not applicable

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

Code reference

Clause 7 (1), (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 manager, in the prescribed form for each metering installation for which the MEP is responsible.

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 manager must derive from the metering equipment provider's records or the metering records contained within the current trader's system.

Audit observation

This was discussed with Alinta Energy Staff. The Registry and two metering certification and inspection reports were checked.

Audit commentary

The Registry information for the two ICPs and associated metering installations was reviewed on 18 January 2021. All information for the two ICPs and associated metring installations was recorded in the registry correctly.

Audit outcome

Compliant

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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 5 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 5 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 manager of any necessary changes to the registry metering records.

Audit observation

This was discussed with Alinta Energy Staff. The Registry and two metering certification and inspection reports were checked. The asset management task schedule was also checked.

Audit commentary

Alinta Energy Staff log in to the Registry once per month to confirm that information recorded matches their own records.

The asset management system schedule confirmed the code requirement was met. The system also includes the process to be followed.

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) or 19(6)
- 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 tested
- 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 the maximum current conveyed through the metering installation at any time exceeds the current rating of its metering installation category as set out in Table 1 of Schedule 10.1
- 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.

A metering equipment provider must, 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.

Audit observation

This was discussed with Alinta Energy Staff. The Registry and two metering certification and inspection reports were checked.

Audit commentary

Alinta Energy Staff advise they have not had any reason to cancel any metering installation certificates during this audit period.

A review of certification and inspection documents confirm code requirements were met.

Audit outcome

Compliant

6.5. Registry Metering Records (Clause 11.8A)

Code reference

Clause 11.8A

Code related audit information

The MEP must provide the registry manager 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 was discussed with Alinta Energy Staff. The Registry and two metering certification and inspection reports were checked.

Audit commentary

Information is loaded manually using the Registry web interface.

A review of certification and inspection documents compared to the Registry information confirmed that metering information for metering installations Alinta Energy MEP are responsible for are recorded appropriately in the Registry.

Audit outcome

Compliant

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 certification 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

This was discussed with Alinta Energy Staff. The Registry and two metering certification and inspection reports were checked.

Audit commentary

Alinta Energy is responsible for the certification of the metering installations, meters, CTs and VTs for two generation installations. The metering installations compliance, maintenance and certification is managed by the Alinta Energy NZ Ltd Technical Officer. The asset management system schedules and notifies when compliance and/or maintenance is due (battery replacement at re certification for example).

Review of the metering certification and inspection reports outlined below confirmed code requirements were met during the audit period.

ICP			Site	
0716190001NSCCC			Power Station CB516 – TG1	
Previous Certification Number & date	Expiry	Inspection	Current Certification Number & date	Expiry
CERT-2017-666 12/10/2017	12/10/2020	INSP-2019-46 02-Apr-2019	CERT-2020-1000 08-Sep-2020	08-Sep-2023

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ICP			Site	
0716190002NS00C			Power Station CB548 – TG2	
Previous Certification Number & date	Expiry	Inspection	Current Certification Number & date	Expiry
CERT-2017-610 14/09/2017	14/09/2020	INSP-2019-47 02/04/19	CERT-2020-1001 08-Sep-2020	08-Sep-2023

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

This was discussed with Alinta Energy Staff. The Registry, Electricity Authority website and two metering certification and inspection reports were checked.

Audit commentary

Alinta Energy uses AccuCal ATH:

Approved Test House	Metering Installation Category	Approved Certification Scope
AccuCal (class A)	Cat 3 HV	Υ
	 Cat 4 HV 	
	• Cat 5 HV	

Alinta Energy Staff check certification and inspection reports to verify that their MEP requirements have been met.

Review of the metering certification and inspection reports confirmed the ATH performed the appropriate certification and recertification tests required by the code during the audit period.

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

This was discussed with Alinta Energy Staff. The Registry and two metering certification and inspection reports were checked.

Audit commentary

Review of the metering certification and reports outlined below confirmed that the metering installations have active and reactive measuring and recording capability:

ICP 0716190001NSCCC

Site Power Station CB516 - TG1

Certification Number	CAL-2020-560
Certification Date	08-Sep-2020
Certification Expiry Date	08-Sep-2023
Installation Category	5
Meter Make and Model	Elster A1700 PB2FBGRCT-L
Meter Rating	3 x 110 V 2 x 5 (6) A

Meter Class	Active – 0.2s	Reactive – 2.0
Meter Serial Number	04082	2740
Test nature and conditions	per CWP-001	onditions monitored. All Hz.

ICP 0716190002NS00C

Site Power Station CB548 - TG2

Certification Number	CAL-2020-561	
Certification Date	08-Sep-2020	
Certification Expiry Date	08-Sep-2023	
Installation Category	5	
Meter Make and Model	Elster A1700 PB2FBGRCT-L	
Meter Rating	3 x 110 V 2 x 5 (6) A	
Meter Class	Active – 0.2s Reactive – 2.0	
Meter Serial Number	04082741	
Test nature and conditions	 Meter calibration tests to IEC 62052/62053 as per CWP-001 In-Situ, Reference Conditions monitored. All tests completed at 50Hz. 	

Audit outcome

Compliant

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 was discussed with Alinta Energy Staff.

Audit commentary

Alinta Energy MEP does not provide MEP services to local services metering in grid substations.

This clause is not applicable. Compliance was not assessed.

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

This was discussed with Alinta Energy Staff. The Registry and two metering certification and inspection reports were checked.

Audit commentary

The 2 x metering installations Alinta Energy are responsible for were designed and installed in 1987 when the plant was commissioned. Alinta Energy Staff advise no changes to the metering installations have been made since they were commissioned. The CTs and VTs are integrated within the HV switchgear and have minimal additional load connected to them such as switchgear ammeters and protection circuits on the VT. This is standard industry practice and was allowed for in the metering installation designs.

A review of the certification and inspection documentation confirmed the CT and VT burdens are within code required tolerances and no changes have been made during the audit period.

ICP 0716190001NSCCC

Site Power Station CB516 - TG1

CT Certification Number & Date	AccuCal CAL-20	014-440 20/11/2014 Expiry 20/11/2024
CT Class & Ratio	CI 0.5	Connected Ratio 1250/5
CT Burden Rating & calculated burden at certification	15 VA	Red 9.79 VA Blue 5.93 VA
VT Certification Number & Date	AccuCal CAL-2	014-441 20/11/2014 Expiry 20/11/2024
VT Class & Ratio	CI 1.0	Ratio 11000/110 V

VT Burden Rating & calculated	200VA	Red 10.48 VA	Yellow 4.59 VA	Blue 7.46 VA
burden at re-certification 08/09/20				

ICP 0716190002NS00C

Site Power Station CB548 – TG2

CT Certification Number & Date	AccuCal CAL-2014-204 24/06/2014 Expiry 24/06/2024
CT Class & Ratio	CI 0.5 Connected Ratio 1250/5
CT Burden Rating & calculated burden at certification	15 VA Red 10.29 VA Blue 6.69 VA
VT Certification Number & Date	AccuCal CAL-2014205 24/06/2014 Expiry 24/06/2024
VT Class & Ratio	CI 1.0 Ratio 11000/110 V
VT Burden Rating & calculated burden at re-certification 08/09/20	200VA Red 10.80 VA Yellow 15.24 VA Blue 8.22 VA

Alinta Energy Staff advised they were aware of this clause and if a new metering installation or modification was required they would engage AccuCal to carry out the design report and consequent modification work.

Audit outcome

Compliant

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

This was discussed with Alinta Energy Staff. The Registry and two metering certification and inspection reports were checked.

Audit commentary

Alinta Energy do not have any metering installations certified at a lower category.

This clause is not applicable. Compliance not assessed

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

This was discussed with Alinta Energy Staff. The Registry and two metering certification reports were checked.

Audit commentary

Alinta Energy does not provide MEP services for new installations. The situation would only arise for recertification of an existing metering installations where there would typically be sufficient load for testing.

Alinta Energy Staff advise there were no new metering installations commissioned during this audit period. A check of the certification reports confirmed there was sufficient load for testing.

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

This was discussed with Alinta Energy Staff. The Registry and two metering certification reports were checked.

Audit commentary

Alinta Energy Staff there were no metering installations where certification tests demonstrated that the metering installation was not within the relevant maximum permitted error during. A check of the certification reports confirmed this.

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 Authority, 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 Authority 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 Authority 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

This was discussed with Alinta Energy Staff. The Registry and two metering certification reports were checked.

Audit commentary

Alinta Energy provides full access to the metering installations as required for re-certification and inspection purposes. The recent certification documents confirm this.

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

This was discussed with Alinta Energy Staff.

Audit commentary

Alinta Energy does not have any time keeping devices that have the functionality to switch a meter register.

This clause is not applicable. Compliance was not assessed.

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, advise 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

This was discussed with Alinta Energy Staff.

Audit commentary

Alinta Energy MEP does not have any control devices or have any responsibility for metering installations that include control devices.

This clause is not applicable. Compliance was not assessed.

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

This was discussed with Alinta Energy Staff.

Audit commentary

Alinta Energy MEP does not have any control devices or have any responsibility for metering installations that include control devices.

This clause is not applicable. Compliance was not assessed.

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

This was discussed with Alinta Energy Staff.

Audit commentary

Alinta Energy does not provide MEP services to category 1 metering installations.

This clause is not applicable. Compliance was not assessed.

Audit outcome

Not applicable

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 update the compensation factor recorded in the registry in accordance with Part 11.

Audit observation

This was discussed with Alinta Energy Staff. The Registry and two metering certification and inspection reports were checked.

Audit commentary

The recent certification documents confirm that both metering installations have a compensation factor of 1 and a check of the registry shows a compensation factor of 1 recorded.

Audit outcome

Compliant

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

This was discussed with Alinta Energy Staff. The Registry and two metering certification and inspection reports were checked.

Audit commentary

The following information was extracted from the most recent certification documents and confirms the metering installations are correctly certified:

ICP 0716190001NSCCC

Site Power Station CB516 - TG1

Certification Number	CAL-2020-560	
Certification Date	08-Sep-2020	
Certification Expiry Date	08-Sep-2023	
Installation Category	5	
Meter Make and Model	Elster A1700 PB2FBGRCT-L	
Meter Rating	3 x 110 V 2 x 5 (6) A	
Meter Class	Active – 0.2s Reactive – 2.0	
Meter Serial Number	04082740	
Test nature and conditions	 Meter calibration tests to IEC 62052/62053 as per CWP-001 In-Situ, Reference Conditions monitored. All tests completed at 50Hz. 	

ICP 0716190002NS00C

Site Power Station CB548 - TG2

Certification Number	CAL-2020-561	
Certification Date	08-Sep-2020	
Certification Expiry Date	08-Sep-2023	
Installation Category	5	
Meter Make and Model	Elster A1700 PB2FBGRCT-L	
Meter Rating	3 x 110 V 2 x 5 (6) A	
Meter Class	Active – 0.2s Reactive – 2.0	
Meter Serial Number	04082741	
Test nature and conditions	 Meter calibration tests to IEC 62052/62053 as per CWP-001 In-Situ, Reference Conditions monitored. All tests completed at 50Hz. 	

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

This was discussed with Alinta Energy Staff. The Registry and two metering certification and inspection reports were checked.

Audit commentary

The following information was extracted from the most recent certification documents and confirms the CT and VT components of the metering installations are appropriately certified:

ICP 0716190001NSCCC

Site Power Station CB516 - TG1

CT Certification Number & Date	AccuCal CAL-20	014-440 20/11/2014	Expiry 20/11/2024
CT Class & Ratio	CI 0.5	Connected Ratio 12	50/5

CT Burden Rating & calculated burden at certification	15 VA Red 9.79 VA Blue 5.93 VA
VT Certification Number & Date	AccuCal CAL-2014-441 20/11/2014 Expiry 20/11/2024
VT Class & Ratio	CI 1.0 Ratio 11000/110 V
VT Burden Rating & calculated burden at re-certification 08/09/20	200VA Red 10.48 VA Yellow 4.59 VA Blue 7.46 VA

ICP 0716190002NS00C

Site Power Station CB548 – TG2

CT Certification Number & Date	AccuCal CAL-2014-204 24/06/2014 Expiry 24/06/2024
CT Class & Ratio	CI 0.5 Connected Ratio 1250/5
CT Burden Rating & calculated burden at certification	15 VA Red 10.29 VA Blue 6.69 VA
VT Certification Number & Date	AccuCal CAL-2014205 24/06/2014 Expiry 24/06/2024
VT Class & Ratio	CI 1.0 Ratio 11000/110 V
VT Burden Rating & calculated burden at re-certification 08/09/20	200VA Red 10.80 VA Yellow 15.24 VA Blue 8.22 VA

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

This was discussed with Alinta Energy Staff. The Registry and two metering certification and inspection reports were checked.

Audit commentary

The following information was extracted from the most recent certification documents and confirms the logger components of the metering installations are integrated within the meters and are appropriately certified:

ICP 0716190001NSCCC

Site Power Station CB516 – TG1

Certification Number	CAL-2020-560
Certification Date	08-Sep-2020
Certification Expiry Date	08-Sep-2023
Installation Category	5
Meter Make and Model	Elster A1700 PB2FBGRCT-L
Logger Details	Internal to meter

ICP 0716190002NS00C

Site Power Station CB548 - TG2

Certification Number	CAL-2020-561
Certification Date	08-Sep-2020
Certification Expiry Date	08-Sep-2023
Installation Category	5
Meter Make and Model	Elster A1700 PB2FBGRCT-L
Logger Details	Internal to meter

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 given notice 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 clauses 10.43 to 10.48.

Audit observation

This was discussed with Alinta Energy Staff

Audit commentary

Alinta Energy Staff advised they were aware of this clause and if this occurred would take the appropriate action.

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

This was discussed with Alinta Energy Staff and the Registry was checked.

Audit commentary

Alinta Energy does not provide MEP services to any interim certified metering installations..

This clause is not applicable. Compliance was not assessed.

Audit outcome

Not applicable

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 120 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, a sample of the category 1 metering installations selected under clause 45(2) of Schedule 10.7 has been inspected by an ATH.

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 2 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

This was discussed with Alinta Energy Staff and the Registry was checked.

Audit commentary

Alinta Energy does not provide MEP services to category 1 metering installations..

This clause is not applicable. Compliance was not assessed.

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Audit outcome

Not applicable

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

This was discussed with Alinta Energy Staff. The Registry and two metering certification and inspection reports were checked.

Audit commentary

Review of the metering installation certification and inspection reports outlined below confirmed code requirements were met during the audit period.

ICP		Site		
0716190001NSCCC		Power Station CB516 – TG1		
Previous Certification Number & date	Expiry	Inspection Report & Date	Current Certification Number & date	Expiry
CERT-2017-666 12/10/2017	12/10/2020	INSP-2019-46 02-Apr-2019	CERT-2020-1000 08-Sep-2020	08-Sep-2023

ICP		Site		
0716190002NS00C		Power Station CB548 – TG2		
Previous Certification Number & date	Expiry	Inspection Report & Date	Current Certification Number & date	Expiry
CERT-2017-610 14/09/2017	14/09/2020	INSP-2019-47 02/04/19	CERT-2020-1001 08-Sep-2020	08-Sep-2023

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

This was discussed with Alinta Energy Staff. The Registry and two metering certification and inspection reports were checked.

Audit commentary

The metering installations were last inspected on 2 April 2019 and no discrepancies or modifications were identified. Alinta Energy Staff verified the information matched their own and the Registry records.

Review of the metering installation inspection reports outlined below confirmed code requirements were met during the audit period:

ICP 0716190001NSCCC

Site Power Station CB516 - TG1

Inspection Report Number	INSP-2019-46
Inspection Date	02-April-2019
Result	Pass
Installation Category	5
Component Certification Stickers on site at inspection	 Meter Data Storage device CTs CAL-2017-428 as per meter CAL-2017-440

•	VTs	CAL-2017-441
•	Installation	Cert-2017-666

ICP 0716190002NS00C

Site Power Station CB548 - TG2

Inspection Report Number	INSP-2019-47	
Inspection Date	02-April-2019	
Result	Pass	
Installation Category	5	
Component Certification Stickers on site at inspection	 Meter Data Storage device CTs VTs Installation CAL-2017-384 as per meter CAL-2017-204 CAL-2017-205 Cert-2017-610 	

Audit outcome

Compliant

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) 3 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.

Audit observation

This was discussed with Alinta Energy Staff. The Registry and two metering certification and inspection reports were checked.

Audit commentary

The metering installations are located within the 11kV substation with access restricted to authorised personnel. If any seals were found broken (or needed to be broken for a technical reason) Alinta Energy Staff would log the event in their metering records and engage AccuCal to inspect the situation and remediate the seals as appropriate.

Alinta Energy Staff advise that no broken seals have been found during the audit period.

Audit outcome

Compliant

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) 5 business days for Category 3 or higher.

Audit observation

This was discussed with Alinta Energy Staff.

Audit commentary

Energy Staff advise that no faulty metering problems have been identified during the audit period.

Both meters are read daily by EMS so any metering problems will be identified quickly. Alinta If this were to occur Alinta Energy Staff would notify the Trader (Alinta Energy NZ LTD) and initiate immediate actions to investigate and resolve the situation as per Alinta Energy standard operating procedures (SOP).

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 5 business days of:
- 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.

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Audit observation

This was discussed with Alinta Energy Staff.

Audit commentary

Energy Staff advise that no faulty metering problems requiring a statement of situation have been occurred during the audit period.

Alinta Energy Staff advise the Alinta Energy SOP for this situation would be initiated. AccuCal would be engaged to investigate, carry out any testing as appropriate and provide a statement of situation and suggest potential resolutions. The statement would be provided to the Trader (Alinta Energy NZ LTD).

Audit outcome

Compliant

9.3. Statement of Situation (Clause10.46(2))

Code reference

Clause 10.46(2)

Code related audit information

Within 3 business days of receiving the statement from the ATH, the MEP must provide copies of the statement to:

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

Audit observation

This was discussed with Alinta Energy Staff.

Audit commentary

Energy Staff advise that no faulty metering problems requiring a statement of situation have been occurred during the audit period.

Alinta Energy Staff advise the Alinta Energy SOP for this situation would be initiated. AccuCal would be engaged to investigate, carry out any testing as appropriate and provide a statement of situation and suggest potential resolutions. The statement would be provided to the Trader (Alinta Energy NZ LTD). A copy of the statement of situation would be provided to the Electricity Authority.

Audit outcome

Compliant

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

This was discussed with Alinta Energy Staff and two metering certification and inspection reports were checked.

Audit commentary

The services access interface is at the meter (as per the certification documents). Metering data is collected and stored by EMS. EMS is provided with all metering information needed such as configuration and passwords and provided access by PSTN phone line to the meters to enable data to be collected.

The only party that the Alinta Energy MEP grants access to raw data is NZ Steel (the end customer).

Audit outcome

Compliant

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

This was discussed with Alinta Energy Staff.

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Audit commentary

The only party that the Alinta Energy MEP grants access to raw data is NZ Steel (the end customer).

Audit outcome

Compliant

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

This was discussed with Alinta Energy Staff.

Audit commentary

Alinta Energy Staff advise that during this audit period they have had no requests for physical access to metering installations under this clause, and would use best endeavours to provide physical access to a metering installation subject to health and safety requirements.

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

This was discussed with Alinta Energy Staff.

Audit commentary

Alinta Energy Staff advise that during this audit period they have had no requests for physical access to metering installations under this clause, and would use best endeavours to provide physical access to a metering installation subject to health and safety requirements.

Audit outcome

Compliant

10.5. Electronic Interrogation of Metering Installations (Clause 8(2), 8(3), 8(5) and 8(6) of Schedule 10.6)

Code reference

Clause 8(2), 8(3), 8(5) and 8(6) 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.

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 malfunctioning or tampering, and if this is detected, carry out the appropriate requirements of Part 10.

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

This was discussed with Alinta Energy Staff.

Audit commentary

Metering data is collected and stored by EMS.

Alinta Energy Staff advise Alinta Energy MEP does not offer data collection services and does not read meters from their "back office".

This clause is not applicable. Compliance was not assessed.

Audit outcome

Not applicable

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

This was discussed with Alinta Energy Staff.

Audit commentary

Metering data is collected and stored by EMS.

Alinta Energy Staff advise Alinta Energy MEP does not offer data collection services and does not read meters from their "back office".

This clause is not applicable. Compliance was not assessed.

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

This was discussed with Alinta Energy Staff.

Audit commentary

Metering data is collected and stored by EMS.

Alinta Energy Staff advise Alinta Energy MEP does not offer data collection services and does not read meters from their "back office".

This clause is not applicable. Compliance was not assessed.

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

This was discussed with Alinta Energy Staff.

Audit commentary

Metering data is collected and stored by EMS.

Alinta Energy Staff advise Alinta Energy MEP does not offer data collection services and does not read meters from their "back office".

This clause is not applicable. Compliance was not assessed.

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

This was discussed with Alinta Energy Staff.

Audit commentary

Metering data is collected and stored by EMS.

Alinta Energy Staff advise Alinta Energy MEP does not offer data collection services and does not read meters from their "back office".

This clause is not applicable. Compliance was not assessed.

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

This was discussed with Alinta Energy Staff.

Audit commentary

Metering data is collected and stored by EMS.

Alinta Energy Staff advise Alinta Energy MEP does not offer data collection services and does not read meters from their "back office".

This clause is not applicable. Compliance was not assessed.

Audit outcome

Not applicable

CONCLUSION

PARTICIPANT RESPONSE

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APPENDIX A - TEMPLATE FOR NON-COMPLIANCE, ISSUES AND RECOMMENDATIONS.

NON-COMPLIANCE

Non-compliance	Description		
Audit Ref:			
With:	Potential impact: Choose an item.		
	Actual impact: Choose an item.		
From: Click here to	Audit history:		
enter a date.	Controls: Choose an item.		
To: Click here to enter a date.	Breach risk rating:		
Audit risk rating	Rationale for audit risk rating		
Choose an item.			
		Remedial action status	
			Choose an item.
Preventative actions taken to ensure no further issues will occur		Completion date	

RECOMMENDATION

Issue	Recommendation	Audited party comment	Remedial action

ISSUE

Description	Issue	Remedial action