

ELECTRICITY INDUSTRY PARTICIPATION CODE
DISTRIBUTED UNMETERED LOAD AUDIT REPORT



For

MACKENZIE DISTRICT COUNCIL AND
GENESIS ENERGY LIMITED
NZBN: 9429037706609

Prepared by: Brett Piskulic

Date audit commenced: 21 May 2024

Date audit report completed: 12 July 2024

Audit report due date: 21 July 2024

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EXECUTIVE SUMMARY

This audit of the **Mackenzie District Council (MDC)** DUML database and processes was conducted at the request of **Genesis Energy Limited (Genesis)**, in accordance with clause 15.37B. The purpose of this audit is to verify that the volume information is being calculated accurately, and that profiles have been correctly applied.

The audit was conducted in accordance with the audit guidelines for DUML audits version 1.1. The scope of the audit encompasses the collection, security, and accuracy of the data, including the preparation of submission information.

This audit covers two ICPs for streetlights on the Mountain Power embedded network in Twizel. The remaining three ICPs switched to Manawa Energy on 1 March 2024 and are included in a separate audit.

Genesis reconciles the DUML load using the GSL profile based on a monthly database report from the MDC RAMM database.

As recorded in the last audit the processes for recording changes and additions had lapsed and many changes had not been recorded in the database. 42 wattage differences and a net 29 additional lamps were found during the field audit for all 60 items of load conducted on 12 June 2024. MDC is currently reviewing its processes for receiving change information and updating the database. As part of the review, it is planned that changes will be recorded in the field by Alpine Energy using mobile RAMM. Checks will be put in place to ensure that all changes identified in monthly invoicing have been recorded in RAMM before payment is approved. MDC is planning to have a full field audit of all items of load conducted to correct all incorrect information and is working with Fulton Hogan and Alpine Energy to retrieve any records of changes made that have not previously been provided or updated in RAMM.

The audit found four non-compliances and makes no recommendations. The future risk rating of 12 indicates that the next audit be completed in 12 months. I have considered this in conjunction with the comments from Genesis and agree with this recommendation.

The matters raised are detailed below:

AUDIT SUMMARY

NON-COMPLIANCES

Subject	Section	Clause	Non-Compliance	Controls	Audit Risk Rating	Breach Risk Rating	Remedial Action
Deriving submission information	2.1	11(1) of Schedule 15.3	The field audit found that the actual load installed in the field is lower than the database wattage by 394 Watts, or 18.29%. This will result in an annual over submission of 1,682.8kWh based on annual on time of 4,271 hours.	Weak	Low	3	Investigating
All load recorded in the database	2.5	Clauses 11(2A) of Schedule 15.3	31 additional lamps identified in the field audit of all 60 items of load.	Weak	Low	3	Investigating
Database accuracy	3.1	15.2 and 15.37B(b)	The field audit found that the actual load installed in the field is lower than the database wattage by 394 Watts, or 18.29%. This will result in an annual over submission of 1,682.8kWh based on annual on time of 4,271 hours.	Weak	Low	3	Investigating
Volume information accuracy	3.2	15.2 and 15.37B(c)	The field audit found that the actual load installed in the field is lower than the database wattage by 394 Watts, or 18.29%. This will result in an annual over submission of 1,682.8kWh based on annual on time of 4,271 hours.	Weak	Low	3	Investigating
Future Risk Rating						12	

Future risk rating	0	1-4	5-8	9-15	16-18	19+
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

Code reference

Section 11 of Electricity Industry Act 2010.

Code related audit information

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

Audit observation

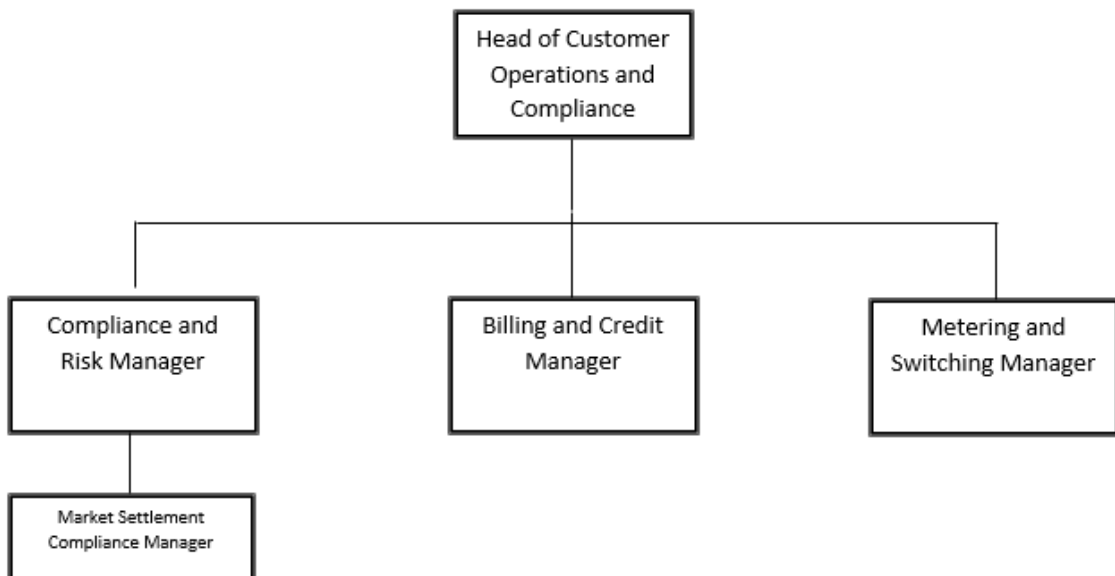
The Electricity Authority's website was reviewed to identify any exemptions relevant to the scope of this audit.

Audit commentary

There are no exemptions in place relevant to the scope of this audit:

1.2. Structure of Organisation

Genesis provided a copy of their organisational structure:



1.3. Persons involved in this audit

Auditor:

Name	Company	Role
Brett Piskulic	Provera	Auditor

Other personnel assisting in this audit were:

Name	Title	Company
Alysha Majury	Unmetered Account Specialist	Genesis Energy
Jess Maaka	Administration Support Officer - Roading	Mackenzie DC
Jordan King	Roading Manager	Mackenzie DC

1.4. Hardware and Software

The SQL database used for the management of DUML is remotely hosted by thinkproject New Zealand Limited. The database is commonly known as "RAMM" which stands for "Road Assessment and Maintenance Management". The specific data used for DUML is held in the Streetlight tables. thinkproject New Zealand Limited backs up the database and assists with disaster recovery as part of their hosting service.

Access to the database is secure by way of password protection.

Systems used by the trader to calculate submissions are assessed as part of their reconciliation participant audits.

1.5. Breaches or Breach Allegations

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

1.6. ICP Data

ICP Number	Description	NSP	Profile	Number of items of load	Database wattage (watts)
0000010005MO321	Streetlighting - The Drive	MMT0111	GSL	42	1,848
0000020005MO20D	Streetlighting	MMO0111	GSL	18	306
Total				60	2,154

1.7. Authorisation Received

All information was provided directly by Genesis and Mackenzie District Council.

1.8. Scope of Audit

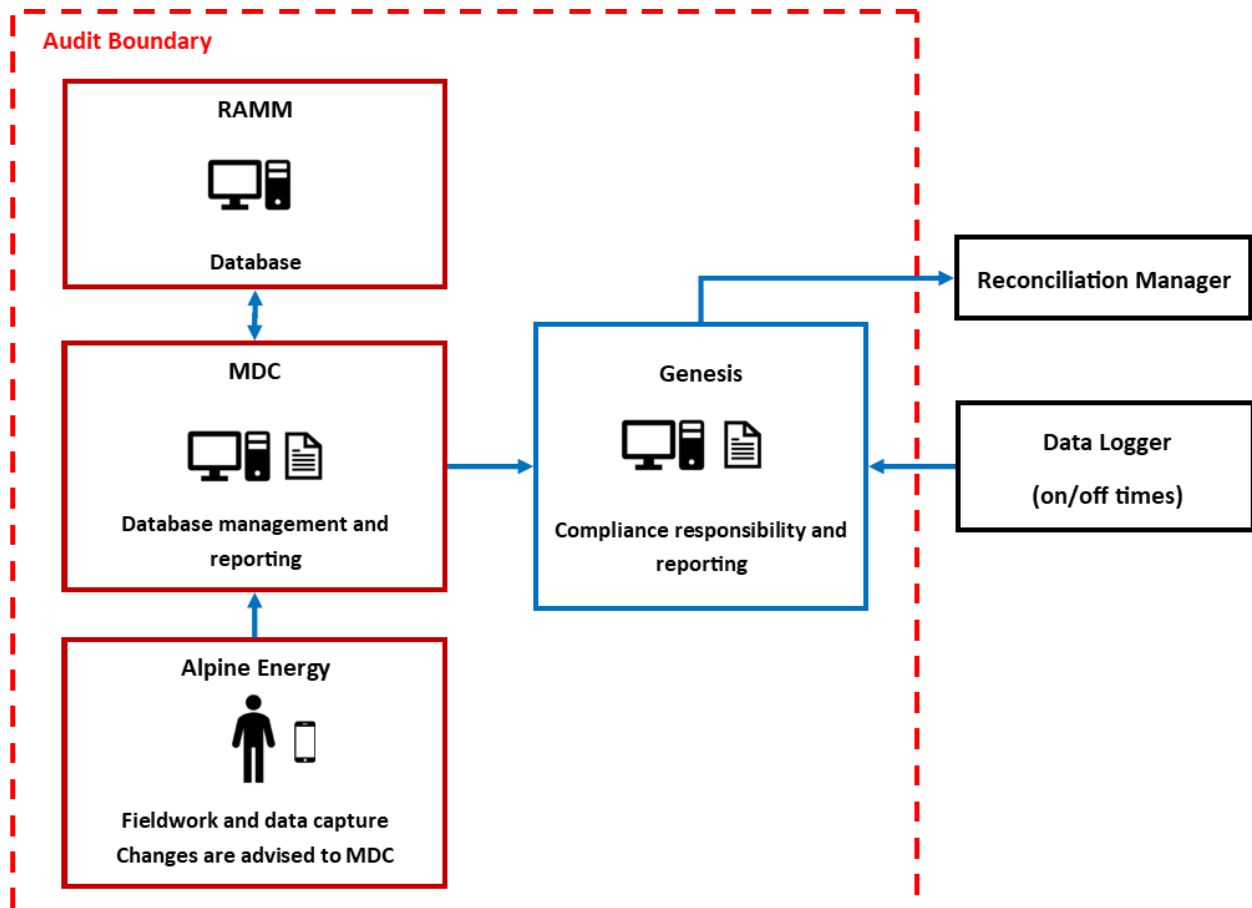
This audit of the Mackenzie District Council (MDC) DUMML database and processes was conducted at the request of Genesis in accordance with clause 15.37B. The purpose of this audit is to verify that the volume information is being calculated accurately, and that profiles have been correctly applied.

The audit was conducted in accordance with the audit guidelines for DUMML audits version 1.1.

The database is remotely hosted by thinkproject New Zealand Ltd and is managed by MDC, who is the customer of Genesis. The fieldwork is conducted by Alpine Energy who are expected to provide details of any changes to MDC in order for the database to be updated.

Genesis reconciles the DUMML load using the GSL profile based on a monthly database report from the MDC RAMM database. This audit covers two ICPs for streetlights on the Mountain Power embedded network in Twizel. The remaining three ICPs switched to Manawa Energy on 1 March 2024 and are included in a separate audit.

The scope of the audit encompasses the collection, security, and accuracy of the data, including the preparation of submission information based on the database reporting. The diagram below shows the audit boundary for clarity.



The field audit was undertaken of all 60 items of load on 12 June 2024.

1.9. Summary of previous audit

The previous audit was completed in October 2023 by Tara Gannon of Provera. Five non-compliances were identified. The current statuses of the non-compliances are described below.

Table of non-compliances

Subject	Section	Clause	Non-compliance	Status
Deriving submission information	2.1	11(1) of Schedule 15.3	<p>The field audit found that the database is not confirmed as accurate within +/- 5%. In absolute terms, total annual consumption is estimated to be 12,700 kWh higher than the DUML database indicates. Changes made in the field during the audit period have not been updated in the database.</p> <p>Nine items of load do not have an ICP number or wattage recorded resulting in an estimated under submission of 1,461 kWh per annum.</p> <p>One item of load with no gear wattage recorded resulting in an estimated under submission of 692 kWh per annum.</p> <p>Monthly reporting is not being provided to Genesis, submission is based on a historical snapshot and does not consider changes or adjustments.</p>	<p>Still existing for database inaccuracy.</p> <p>Cleared for missing ICP number, missing gear wattage and reporting of changes to a daily level.</p>
ICP identifier and items of load	2.2	Clause 11(2)(a) and (aa) of Schedule 15.3	Nine items do not have an ICP number recorded resulting in an estimated under submission of 1,461 kWh per annum.	Cleared
Description and capacity of load	2.4	Clause 11(2)(c) and (d) of Schedule 15.3	Nine items have no wattage recorded resulting in an estimated under submission of 1,461 kWh per annum	Cleared
All load recorded in the database	2.5	Clauses 11(2A) of Schedule 15.3	Seven additional lamps identified in the field of 164 items of load sampled.	Still existing for a higher number of additional lights.

Subject	Section	Clause	Non-compliance	Status
Database accuracy	3.1	15.2 and 15.37B(b)	<p>The field audit found that the database is not confirmed as accurate within +/- 5%. In absolute terms, total annual consumption is estimated to be 12,700 kWh higher than the DUML database indicates. Changes made in the field during the audit period have not been updated in the database.</p> <p>Nine items of load do not have an ICP number or wattage recorded resulting in an estimated under submission of 1,461 kWh per annum.</p> <p>One item of load with no gear wattage recorded resulting in an estimated under submission of 692 kWh per annum.</p>	<p>Still existing for database inaccuracy</p> <p>Cleared for missing ICP number, missing gear wattage and reporting of changes to a daily level.</p>
Volume information accuracy	3.2	15.2 and 15.37B(c)	<p>The field audit found that the database is not confirmed as accurate within +/- 5%. In absolute terms, total annual consumption is estimated to be 12,700 kWh higher than the DUML database indicates. Changes made in the field during the audit period have not been updated in the database.</p> <p>Nine items of load do not have an ICP number or wattage recorded resulting in an estimated under submission of 1,461 kWh per annum.</p> <p>One item of load with no gear wattage recorded resulting in an estimated under submission of 692 kWh per annum.</p> <p>Monthly reporting is not being provided to Genesis, submission is based on a historical snapshot and does not consider changes or adjustments.</p>	<p>Still existing for database inaccuracy</p> <p>Cleared for missing ICP number, missing gear wattage and reporting of changes to a daily level.</p>

1.10. Distributed unmetered load audits (Clause 16A.26 and 17.295F)

Code reference

Clause 16A.26 and 17.295F

Code related audit information

Retailers must ensure that DUML database audits are completed:

1. by 1 June 2018 (for DUML that existed prior to 1 June 2017),
2. within three months of submission to the reconciliation manager (for new DUML),
3. within the timeframe specified by the Authority for DUML that has been audited since 1 June 2017.

Audit observation

Genesis have requested Provera to undertake this streetlight audit.

Audit commentary

This audit report confirms that the requirement to conduct an audit has been met for this database within the required timeframe.

Audit outcome

Compliant

2. DUMML DATABASE REQUIREMENTS

2.1. Deriving submission information (Clause 11(1) of Schedule 15.3)

Code reference

Clause 11(1) of Schedule 15.3

Code related audit information

The retailer must ensure the:

- DUMML database is up to date,
- methodology for deriving submission information complies with schedule 15.5.

Audit observation

The process for calculation of consumption was examined and the application of profiles was checked. The database was checked for accuracy.

Audit commentary

Submission process and accuracy

Genesis reconciles this DUMML load using the GSL profile, and on hours are derived using data logger information for both ICPs.

The total volume submitted to the Reconciliation Manager is based on a monthly database report from the MDC RAMM database and the “burn time” which is sourced from data loggers. The methodology is compliant.

I checked the submission data for April 2024 for the two ICPs in the MDC database for which Genesis is the retailer using the value submitted by Genesis and the database information, and confirmed the calculation for April 2024 was correct.

The monthly extract that is provided to Genesis contains additional information detailing any changes made through the month, including the date the changes were made and the wattage before and after the change. This information is used by Genesis to account for changes on a daily basis.

Database accuracy

Examination of the database found:

Issue	Estimated volume information impact (annual kWh)
The field audit found that the actual load installed in the field is lower than the database wattage by 394 Watts, or 18.29%, as recorded in section 3.1	Over submission of 1,682.8kWh p.a.

Audit outcome

Non-compliant

Non-compliance	Description		
Audit Ref: 2.1 With: Clause 11(1) of Schedule 15.3 From: 27-May-24 To: 16-Aug-23	The field audit found that the actual load installed in the field is lower than the database wattage by 394 Watts, or 18.29%. This will result in an annual over submission of 1,682.8kWh based on annual on time of 4,271 hours. Potential impact: Medium Actual impact: Low Audit history: Twice Controls: Weak Breach risk rating: 3		
Audit risk rating	Rationale for audit risk rating		
Low	The controls are recorded as weak as a high number of discrepancies were identified in the field audit due to changes made in the field not being recorded in the database. The impact on settlement and participants is minor; therefore, the audit risk rating is low.		
Actions taken to resolve the issue		Completion date	Remedial action status
MDC have been working on their database and have some challenges due to role vacancies and have started providing Genesis monthly snapshot RAMM data since May 2024. MDC are currently working with Alpine to establish a working process and having RAMM updated directly with changes in field. MDC are looking at completing a full field audit – there is no date yet as to when this can/will be carried out		Continuous Improvement	Investigating
Preventative actions taken to ensure no further issues will occur		Completion date	
Monthly snapshot data from RAMM has now started being provided since May 2024		Continuous Improvement	

2.2. ICP identifier and items of load (Clause 11(2)(a) and (aa) of Schedule 15.3)

Code reference

Clause 11(2)(a) and (aa) of Schedule 15.3

Code related audit information

The DUML database must contain:

- each ICP identifier for which the retailer is responsible for the DUML,
- the items of load associated with the ICP identifier.

Audit observation

The database was checked to confirm whether an ICP is recorded for each item of load.

Audit commentary

All items of load have an ICP recorded against them.

Audit outcome

Compliant

2.3. Location of each item of load (Clause 11(2)(b) of Schedule 15.3)

Code reference

Clause 11(2)(b) of Schedule 15.3

Code related audit information

The DUML database must contain the location of each DUML item.

Audit observation

The database was checked to confirm the location is recorded for all items of load.

Audit commentary

The database contains house numbers, road names, offset, side (of road), location (in metres), and GPS coordinates.

All items of load have GPS coordinates recorded and are locatable.

Audit outcome

Compliant

2.4. Description and capacity of load (Clause 11(2)(c) and (d) of Schedule 15.3)

Code reference

Clause 11(2)(c) and (d) of Schedule 15.3

Code related audit information

The DUML database must contain:

- *a description of load type for each item of load and any assumptions regarding the capacity,*
- *the capacity of each item in watts.*

Audit observation

The database was checked to confirm that it contained a field for lamp type and wattage capacity and included any ballast or gear wattage and that all items of load were recorded.

Audit commentary

The extract provided has fields for lamp type, gear wattage, lamp wattage and total wattage and all were populated.

The accuracy of the recorded wattages is discussed in **section 3.1**.

Audit outcome

Compliant

2.5. All load recorded in database (Clause 11(2A) of Schedule 15.3)

Code reference

Clause 11(2A) of Schedule 15.3

Code related audit information

The retailer must ensure that each item of DUML for which it is responsible is recorded in this database.

Audit observation

The field audit was undertaken of all 60 items of load on 12 June 2024.

Audit commentary

The field audit discrepancies found are detailed in the table below.

Street	Database Count	Field Count	Count differences	Wattage differences	Comments
GRANDVUE DRIVE	17	21	-2, +6	17	17 x 35W LPS recorded in database. 21 x 21W LED found in field.
GREENFIELD PLACE	7	7	-	7	7 x 35W LPS recorded in database. 7 x 21W LED found in field.
LAKELAND AVENUE	11	17	+6	11	11 x 35W LPS recorded in database. 17 x 21W LED found in field.
PENSTOCK PLACE	3	3	-	3	3 x 35W LPS recorded in database. 3 x 21W LED found in field.
UNWIN PLACE	4	4	-	4	4 x 35W LPS recorded in database. 4 x 21W LED found in field.
THE DRIVE	10	10	+4	-	10 x 17W LED recorded in database. 14 x 17W LED found in field.
AORAKI CRESCENT	0	6	+6	-	6 x 21W LED found in field. No lights are recorded in database for this street.
HYDRO AVENUE	0	6	+6	-	6 x 21W LED found in field. No lights are recorded in database for this street.
CANAL PLACE	0	3	+3	-	3 x 21W LED found in field. No lights are recorded in database for this street.
Total	60	89	33(+31, -2)	42	

The field audit found 31 additional lamps that were not recorded the database, and this is recorded as non-compliance below. The database accuracy is discussed in **section 3.1**.

Audit outcome

Non-compliant

Non-compliance	Description
Audit Ref: 2.5 With: Clauses 11(2A) of Schedule 15.3 From: 27-May-24 To: 12-Jun-24	31 additional lamps identified in the field audit of all 60 items of load. Potential impact: Low Actual impact: Low Audit history: Multiple times Controls: Weak Breach risk rating: 3
Audit risk rating	Rationale for audit risk rating

Low	The controls are rated as weak as changes in the field have not been updated in the database. The impact on settlement and participants is minor; therefore, the audit risk rating is low.		
Actions taken to resolve the issue		Completion date	Remedial action status
MDC have been working on their database and have some challenges due to role vacancies and have started providing Genesis monthly snapshot RAMM data since May 2024. MDC are currently working with Alpine to establish a working process and having RAMM updated directly with changes in field. MDC are looking at completing a full field audit – there is no date yet as to when this can/will be carried out		Continuous Improvement	Investigating
Preventative actions taken to ensure no further issues will occur		Completion date	
Monthly snapshot data from RAMM has now started being provided since May 2024		Continuous Improvement	

2.6. Tracking of load changes (Clause 11(3) of Schedule 15.3)

Code reference

Clause 11(3) of Schedule 15.3

Code related audit information

The DUML database must track additions and removals in a manner that allows the total load (in kW) to be retrospectively derived for any given day.

Audit observation

The process for tracking of changes in the database was examined.

Audit commentary

The RAMM database functionality achieves compliance with the code.

Audit outcome

Compliant

2.7. Audit trail (Clause 11(4) of Schedule 15.3)

Code reference

Clause 11(4) of Schedule 15.3

Code related audit information

The DUML database must incorporate an audit trail of all additions and changes that identify:

- *the before and after values for changes,*
- *the date and time of the change or addition,*
- *the person who made the addition or change to the database.*

Audit observation

The database was checked for audit trails.

Audit commentary

RAMM records audit trail information of changes made.

Audit outcome

Compliant

3. ACCURACY OF DUML DATABASE

3.1. Database accuracy (Clause 15.2 and 15.37B(b))

Code reference

Clause 15.2 and 15.37B(b)

Code related audit information

Audit must verify that the information recorded in the retailer's DUML database is complete and accurate.

Audit observation

A field audit of all 60 items of load was conducted to determine the database accuracy.

Wattages were checked for alignment with the published standardised wattage table produced by the Electricity Authority or the LED specifications.

Audit commentary

Database accuracy based on the field audit

A field audit was conducted of all 60 items of load.

The field audit discrepancies found are detailed in the table below.

Street	Database Count	Field Count	Count differences	Wattage differences	Comments
GRANDVUE DRIVE	17	21	-2, +6	17	17 x 35W LPS recorded in database. 21 x 21W LED found in field.
GREENFIELD PLACE	7	7	-	7	7 x 35W LPS recorded in database. 7 x 21W LED found in field.
LAKELAND AVENUE	11	17	+6	11	11 x 35W LPS recorded in database. 17 x 21W LED found in field.
PENSTOCK PLACE	3	3	-	3	3 x 35W LPS recorded in database. 3 x 21W LED found in field.
UNWIN PLACE	4	4	-	4	4 x 35W LPS recorded in database. 4 x 21W LED found in field.
THE DRIVE	10	10	+4	-	10 x 17W LED recorded in database. 14 x 17W LED found in field.
AORAKI CRESCENT	0	6	+6	-	6 x 21W LED found in field. No lights are recorded in database for this street.
HYDRO AVENUE	0	6	+6	-	6 x 21W LED found in field. No lights are recorded in database for this street.
CANAL PLACE	0	3	+3	-	3 x 21W LED found in field. No lights are recorded in database for this street.
Total	60	91	33(+31, -2)	42	

The field audit found that the actual load installed in the field is lower than the database wattage by 394 Watts, or 18.29%. This will result in an annual over submission of 1,682.8kWh based on annual on time of 4,271 hours.

Lamp description and capacity accuracy

The database was checked against the published standardised wattage table, and manufacturer's specifications where available. All wattages and ballasts were recorded correctly.

Change management process findings

New connection, fault, and maintenance work is completed by Alpine Energy and changes are expected to be reported monthly to the roading contractor Fulton Hogan and MDC. As recorded in the last audit the processes for recording changes and additions had lapsed and a high number of changes had not been recorded in the database. This was confirmed by the high number of discrepancies identified in this field audit. MDC is currently reviewing its processes for receiving information from Alpine Energy and updating and maintaining the database. As part of the review, it is planned that changes will be recorded in the field by Alpine Energy using mobile RAMM. Checks will be put in place to ensure that all changes identified in monthly invoicing have been recorded in RAMM before payment is approved. MDC is planning to have a full field audit of all items of load conducted to correct all incorrect information and is working with Fulton Hogan and Alpine Energy to retrieve any records of changes made that have not previously been provided or updated in RAMM.

Private and festive lights

No private lights are recorded in the database and no festive lights are used.

Audit outcome

Non-compliant

Non-compliance	Description		
Audit Ref: 3.1 With: Clause 15.2 and 15.37B(b) From: 27-May-24 To: 12-Jun-24	The field audit found that the actual load installed in the field is lower than the database wattage by 394 Watts, or 18.29%. This will result in an annual over submission of 1,682.8kWh based on annual on time of 4,271 hours. Potential impact: Medium Actual impact: Low Audit history: Three times Controls: Weak Breach risk rating: 3		
Audit risk rating	Rationale for audit risk rating		
Low	The controls are recorded as weak as a high number of discrepancies were identified in the field audit due to changes made in the field not being recorded in the database. The impact on settlement and participants is minor; therefore, the audit risk rating is low.		
Actions taken to resolve the issue		Completion date	Remedial action status
MDC have been working on their database and have some challenges due to role vacancies and have started providing Genesis monthly snapshot RAMM data since May 2024. MDC are currently working with Alpine to establish a working process and having RAMM updated directly with changes in field. MDC are looking at completing a full field audit – there is no date yet as to when this can/will be carried out		Continuous Improvement	Investigating

Preventative actions taken to ensure no further issues will occur	Completion date	
Monthly snapshot data from RAMM has now started being provided since May 2024	Continuous Improvement	

3.2. Volume information accuracy (Clause 15.2 and 15.37B(c))

Code reference

Clause 15.2 and 15.37B(c)

Code related audit information

The audit must verify that:

- volume information for the DUML is being calculated accurately,
- profiles for DUML have been correctly applied.

Audit observation

The submission was checked for accuracy for the month the database extract was supplied. This included:

- checking the registry to confirm that the ICP has the correct profile and submission flag, and
- checking the database extract combined with the burn hours against the submitted figure to confirm accuracy.

Audit commentary

Submission process and accuracy

Genesis reconciles this DUML load using the GSL profile, and on hours are derived using data logger information for both ICPs.

The total volume submitted to the Reconciliation Manager is based on a monthly database report from the MDC RAMM database and the “burn time” which is sourced from data loggers. The methodology is compliant.

I checked the submission data for April 2024 for the two ICPs in the MDC database for which Genesis is the retailer using the value submitted by Genesis and the database information, and confirmed the calculation for April 2024 was correct.

The monthly extract that is provided to Genesis contains additional information detailing any changes made through the month, including the date the changes were made and the wattage before and after the change. This information is used by Genesis to account for changes on a daily basis.

Database accuracy

Examination of the database found:

Issue	Estimated volume information impact (annual kWh)
The field audit found that the actual load installed in the field is lower than the database wattage by 394 Watts, or 18.29%, as recorded in section 3.1	Over submission of 1,682.8kWh p.a.

Audit outcome

Non-compliant

Non-compliance	Description		
<p>Audit Ref: 3.2</p> <p>With: Clauses 15.2 and 15.37B(c)</p> <p>From: 27-May-24</p> <p>To: 12-Jun-24</p>	<p>The field audit found that the actual load installed in the field is lower than the database wattage by 394 Watts, or 18.29%. This will result in an annual over submission of 1,682.8kWh based on annual on time of 4,271 hours.</p> <p>Potential impact: Medium</p> <p>Actual impact: Low</p> <p>Audit history: Twice</p> <p>Controls: Weak</p> <p>Breach risk rating: 3</p>		
Audit risk rating	Rationale for audit risk rating		
<p>Low</p>	<p>The controls are recorded as weak as a high number of discrepancies were identified in the field audit due to changes made in the field not being recorded in the database.</p> <p>The impact on settlement and participants is minor; therefore, the audit risk rating is low.</p>		
Actions taken to resolve the issue		Completion date	Remedial action status
<p>MDC have been working on their database and have some challenges due to role vacancies and have started providing Genesis monthly snapshot RAMM data since May 2024.</p> <p>MDC are currently working with Alpine to establish a working process and having RAMM updated directly with changes in field.</p> <p>MDC are looking at completing a full field audit – there is no date yet as to when this can/will be carried out</p>		<p>Continuous Improvement</p>	<p>Investigating</p>
Preventative actions taken to ensure no further issues will occur		Completion date	
<p>Monthly snapshot data from RAMM has now started being provided since May 2024</p>		<p>Continuous Improvement</p>	

CONCLUSION

The audit was conducted in accordance with the audit guidelines for DUML audits version 1.1. The scope of the audit encompasses the collection, security, and accuracy of the data, including the preparation of submission information.

This audit covers two ICPs for streetlights on the Mountain Power embedded network in Twizel. The remaining three ICPs switched to Manawa Energy on 1 March 2024 and are included in a separate audit.

Genesis reconciles the DUML load using the GSL profile based on a monthly database report from the MDC RAMM database.

As recorded in the last audit the processes for recording changes and additions had lapsed and many changes had not been recorded in the database. 42 wattage differences and a net 29 additional lamps were found during the field audit for all 60 items of load conducted on 12 June 2024. MDC is currently reviewing its processes for receiving change information and updating the database. As part of the review, it is planned that changes will be recorded in the field by Alpine Energy using mobile RAMM. Checks will be put in place to ensure that all changes identified in monthly invoicing have been recorded in RAMM before payment is approved. MDC is planning to have a full field audit of all items of load conducted to correct all incorrect information and is working with Fulton Hogan and Alpine Energy to retrieve any records of changes made that have not previously been provided or updated in RAMM.

The audit found four non-compliances and makes no recommendations. The future risk rating of 12 indicates that the next audit be completed in 12 months. I have considered this in conjunction with the comments from Genesis and agree with this recommendation.

PARTICIPANT RESPONSE

Genesis agrees with the audit findings and the recommended 12 month review data, this will allow for Genesis to continue to work with MDC in increasing their database accuracy and also allow MDC to establish new processes with Alpine for tracking of changes in field.

Genesis has been working with MDC in gaining monthly RAMM data and as at May 2024 Genesis has been receiving regular monthly snapshot RAMM data.

MDC have had some challenges due to role vacancies and are currently working with Genesis & Alpine in improving the accuracy of their database.

MDC are currently working with Alpine to establish an accurate process in updating changes in the field and implementing that the tracking of changes is updated in field by Alpine.

MDC are also working with Alpine to complete a full field audit to increase the accuracy of their current database however are unable to provide a data for this to be carried out. The indication is they are hoping to have this carried out in the next 6 months.