

ELECTRICITY INDUSTRY PARTICIPATION CODE
DISTRIBUTED UNMETERED LOAD AUDIT REPORT



For

MATAMATA PIAKO DISTRICT COUNCIL AND
GENESIS ENERGY

Prepared by: Rebecca Elliot

Date audit commenced: 22 July 2024

Date audit report completed: 12 September 2024

Audit report due date: 20 September 2024

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EXECUTIVE SUMMARY

This audit of the **Matamata Piako District Council Unmetered Streetlights (MPDC)** DUML database and processes was conducted at the request of **Genesis Energy (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.

Genesis reconciles this DUML load using the GSL profile. Wattages are derived from monthly reports of the database information provided by MPDC. On and off times are derived from a data logger.

Power Solutions Limited (PSL) manages the database on behalf of MPDC. The field work was carried out by McKay Electrical until June 2024. Horizon is currently undertaking this work while the tender process is being completed.

The field audit confirmed that the database is within the accuracy threshold.

Overall, this database has a high level of accuracy and improvements have been made during the audit period:

- the light descriptions have been improved since the last audit,
- the two private lights being excluded from the monthly wattage report identified in the last audit have had the correct ICP recorded, and
- the monthly wattage report now includes changes made at a daily level.

This audit found three non-compliances and makes no recommendations. The future risk rating of three indicates that the next audit be completed in 24 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	<p>Calculation error for ICP 1000588658PC323 resulting in a very minor estimated over submission of 615 kWh for August 2024.</p> <p>Four private lights recorded in the database and confirmed as not being reconciled elsewhere resulting in an estimated minor under submission of 1,538 kWh per annum.</p>	Strong	Low	1	Investigating
Database accuracy	3.1	15.2 and 15.37B(b)	<p>Four private lights recorded in the database and confirmed as not being reconciled elsewhere resulting in an estimated minor under submission of 1,538 kWh per annum.</p>	Strong	Low	1	Investigating
Volume information accuracy	3.2	15.2 and 15.37B(c)	<p>Calculation error for ICP 1000588658PC323 resulting in a very minor estimated over submission of 615 kWh for August 2024.</p> <p>Four private lights recorded in the database and confirmed as not being reconciled elsewhere resulting in an estimated minor under submission of 1,538 kWh per annum.</p>	Strong	Low	1	Investigating
Future Risk Rating						3	

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
		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

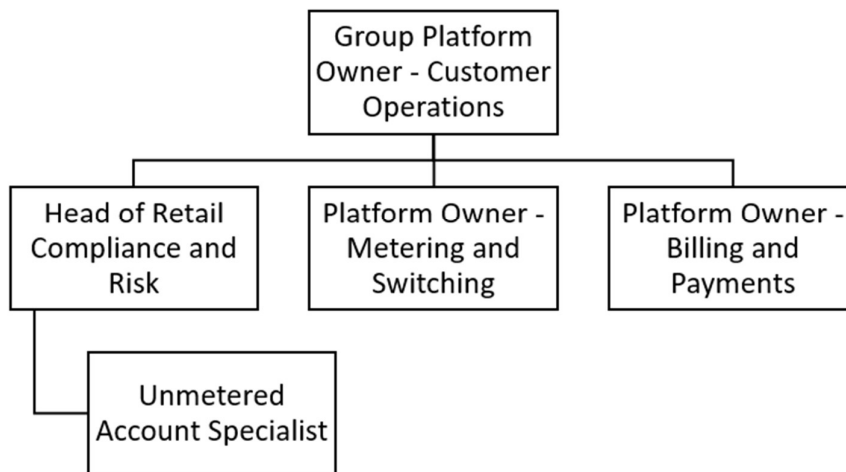
The Electricity Authority's website was reviewed to identify any exemptions relevant to the scope of this audit.

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
Rebecca Elliot	Veritek Limited	Auditor

Other personnel assisting in this audit were:

Name	Title	Company
Johan Van	Risk & Compliance Lead	Genesis Energy
Jon Stevens	Projects Engineer	Power Solutions

1.4. Hardware and Software

The SQL database used for the management of DUML is remotely hosted by thinkproject New Zealand Ltd. The database is commonly known as "RAMM" which stands for "Roading Asset and Maintenance Management".

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 audit.

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)
1000510806PC47F	MATAMATA-PIAKO RURAL	WHU0331	GSL	725	28,426
1000588658PC323	Matamata Piako District Council Streetlights - Hinuera GXP	HIN0331	GSL	1,258	52,828
1000588659PCF66	Matamata Piako District Council Streetlights - Piako GXP	PAO1101	GSL	1,211	46,606
TOTAL				3,194	127,338

1.7. Authorisation Received

All information was provided directly by Genesis or Power Solutions.

1.8. Scope of Audit

This audit of the Matamata Piako District Council Unmetered Streetlights (MPDC) DUML database and processes was conducted at the request of Genesis Energy (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.

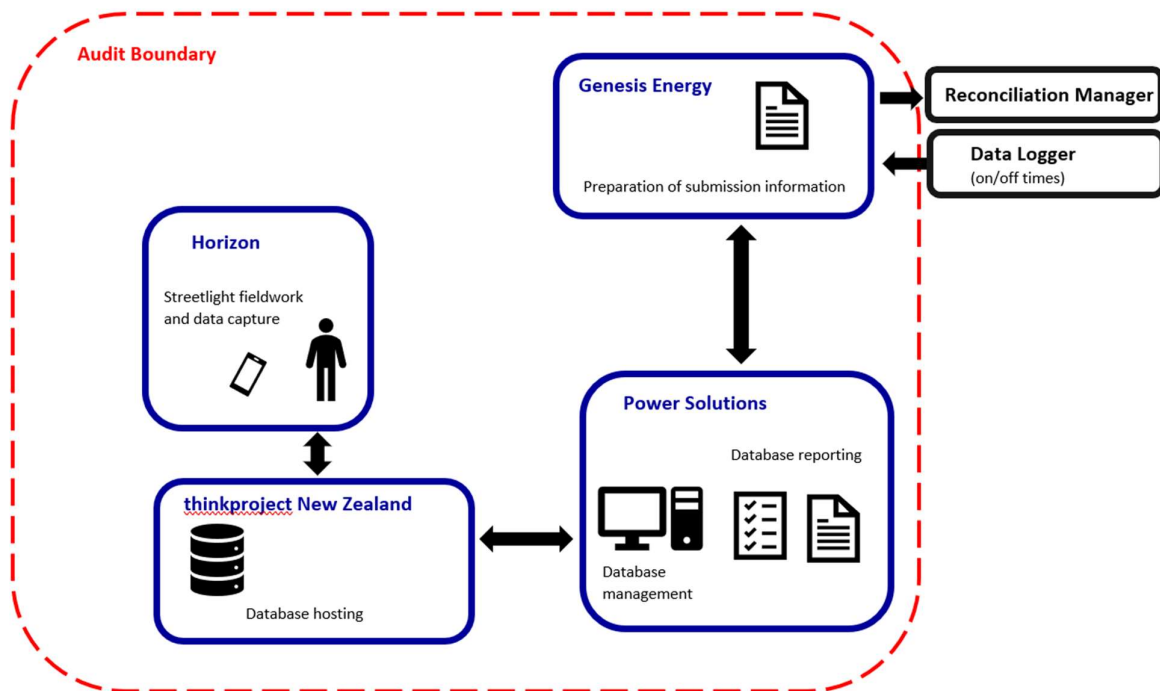
The audit was conducted in accordance with the audit guidelines for DUML audits version 1.1.

Genesis reconciles this DUML load using the GSL profile. Wattages are derived from reports of database information provided by MPDC. On and off times are derived from a data logger.

The database is remotely hosted by thinkproject New Zealand Ltd and is managed by PSL, on behalf of MPDC, who is Genesis' customer. McKay Limited was engaged by MPDC and conducted the fieldwork and asset data capture until the end of June 2024. This is now being undertaken by Horizon while the tender process is being completed. Reporting is provided to Genesis on a monthly basis by PSL.

The database records all Matamata Piako lights and the NZTA lighting for the Matamata Piako area. The NZTA items of load are only recorded in MPDC RAMM database for clarity of asset ownership, and not for submission.

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 a statistical sample of 285 items of load on 6 September 2024.

1.9. Summary of previous audit

The previous audit was undertaken by Steve Woods of Veritek Limited in October 2022 for Genesis Energy. Four non-compliances were identified, and one recommendation was made. The statuses of the non-compliances are described below:

Table of Non-Compliance

Subject	Section	Clause	Non-compliance	Status
Deriving submission information	2.1	11(1) of schedule 15.3	Some load reconciled to the incorrect ICP due to errors in the monthly report. The overall volume is correct and the ICPs are all in the same balancing area, so the impact is minimal.	Cleared
			Five private lights recorded in the database and confirmed as not being reconciled elsewhere resulting in an estimated minor under submission of 1,657 kWh per annum.	Still existing
			The data used for submission does not track changes at a daily basis and is provided as a snapshot.	Cleared
All load recorded in database	2.5	11(2A) of schedule 15.3	One additional light found in the field of a sample of 271 lights checked.	Cleared
Database accuracy	3.1	15.2 and 15.37B(b)	Five private lights recorded in the database and confirmed as not being reconciled elsewhere resulting in an estimated minor under submission of 1,657 kWh per annum.	Still existing
Volume information accuracy	3.2	15.2 and 15.37B(c)	Some load reconciled to the incorrect ICP due to errors in the monthly report. The overall volume is correct and the ICPs are all in the same balancing area, so the impact is minimal.	Cleared
			Five private lights recorded in the database and confirmed as not being reconciled elsewhere resulting in an estimated minor under submission of 1,657 kWh per annum.	Still existing
			The data used for submission does not track changes at a daily basis and is provided as a snapshot.	Cleared

Table of Recommendations

Subject	Section	Description	Status
Database accuracy	3.1	Add more detail to light model descriptions including expected lamp wattage.	Adopted

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 Veritek 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. DUML 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:

- DUML 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

Genesis reconciles the DUML load using the GSL profile. The on and off times are derived from a data logger. I reviewed the submission methodology and confirmed compliance.

I reviewed the submission volumes for August 2024 and found five lights recorded as “yet to be connected to the network” were incorrectly included in the wattage report:

ICP	RAMM database lamp count	RAMM database kW value	August calculation	August calculation	kW variance
1000588658PC323	1,230	49.85	1,235	51.24	1.39

This will have resulted in a very minor over submission of an estimated 615 kWh for the month of August. This is expected to be corrected through the revision process.

The monthly wattage report is provided by Power Solutions and includes changes made at a daily level.

There are five private lights in the database, but the ICP is recorded as “Private”. These are not included in the monthly report and are not reconciled anywhere else:

- four are associated with a retirement village; the ICPs associated with village have no unmetered load associated and there is no shared unmetered load - MPDC and Power Solutions are working with Powerco to resolve these, and
- the remaining item of load recorded against Follis Street is located on Riverview Lane and is mis-plotted; Powerco are in the process of disconnecting this light.

The four privately owned lights not being reconciled will potentially be resulting in an estimated under submission of 1,538 kWh per annum.

The correct ICP has been added to the two “privately owned” lights detailed in the last audit.

The field audit confirmed that the database is within the accuracy threshold as detailed in **section 3.1**.

Audit outcome

Non-compliant

Non-compliance	Description		
Audit Ref: 2.1 With: Clause 11(1) of schedule 15.3 From: 12-Oct-22 To: 06-Sep-24	Calculation error for ICP 1000588658PC323 resulting in a very minor estimated over submission of 615 kWh for August 2024. Four private lights recorded in the database and confirmed as not being reconciled elsewhere resulting in an estimated minor under submission of 1,538 kWh per annum. Potential impact: Low Actual impact: Low Audit history: Multiple times Controls: Strong Breach risk rating: 1		
Audit risk rating	Rationale for audit risk rating		
Low	The controls are rated as strong as the controls will mitigate risk to an acceptable level. The impact is assessed to be low as the volumes are very minor.		
Actions taken to resolve the issue		Completion date	Remedial action status
The District Council and Power Solutions are working with Powerco to ensure the unmetered load of the four private lights are recorded against an ICP in the retirement village so that the consumption is being reconciled.		1/12/2024	Investigating
Preventative actions taken to ensure no further issues will occur		Completion date	
The District Council has strong controls to ensure that any assets connected to the grid for which it should be accountable are recorded and reconciled. There is also continuous work to identify and resolve any historical issues where private lights are being recorded and reconciled by the District Council, working with the residents and other parties to ensure the responsibility of the lights are transferred to them.		Ongoing	

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 DUMML database must contain:

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

Audit observation

The database was checked to confirm an ICP was recorded against each item of load.

Audit commentary

All items of load have an ICP recorded. The accuracy of the ICPs is discussed in **section 3.1**.

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 DUMML database must contain the location of each DUMML item.

Audit observation

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

Audit commentary

The database contains the nearest street address, pole numbers and Global Positioning System (GPS) coordinates for each item of load and users in the office and field can view these locations on a mapping system.

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 DUMML 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 each item of load had a value recorded in these fields.

Audit commentary

All lamps in RAMM have a lamp model, lamp wattage and gear wattage recorded. No missing, or invalid zero lamp or gear wattages were identified.

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 a statistical sample of 285 items of load on 6 September 2024.

Audit commentary

The field audit summarised field audit findings were:

Discrepancy	Quantity
Incorrect wattage	4
In the field, not in the database	0
In the database, not in the field	0

No additional lights were found in the field. The field audit findings have been passed to PSL and Genesis to correct. The field audit confirmed that the database accuracy is within the allowable +/-5% threshold as detailed in **section 3.1**.

Audit outcome

Compliant

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 DUMML 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

The RAMM database has a complete audit trail of all additions and changes to the database information.

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

The DUML Statistical Sampling Guideline was used to determine the database accuracy. The table below shows the survey plan.

Plan Item	Comments
Area of interest	Matamata Piako district
Strata	The database contains items of load in Matamata Piako area and excludes NZTA lighting. The processes for the management of MPDC items of load are the same, but I decided to place the items of load into four strata, as follows: <ul style="list-style-type: none"> • A-Fa, • Fe-Mo, • Mu-Sta and • Sti-Y.
Area units	I created a pivot table of the roads by strata and used a random number generator in a spreadsheet to select a total of 58 sub-units.
Total items of load	285 items of load were checked.

Wattages were checked for alignment with the published standardised wattage table produced by the Electricity Authority or LED light specifications where available against the RAMM database.

The change management process to track changes and timeliness of database updates was evaluated.

Audit commentary

Field audit findings

A field audit was conducted of a statistical sample of 285 items of load. The “database auditing tool” was used to analyse the results, which are shown in the table below.

Result	Percentage	Comments
The point estimate of R	99.2	Wattage from survey is lower than the database wattage by 0.8%
R _L	97.9	With a 95% level of confidence, it can be concluded that the error could be between -0.2% and +2.1%
R _H	99.8	

These results were categorised in accordance with the “Distributed Unmetered Load Statistical Sampling Audit Guideline”, effective from 1 February 2019 and the table below shows that Scenario A (detailed below) applies. The conclusion from Scenario A is that the database is within the allowable +/-5% variance threshold and compliance is confirmed.

In absolute terms the installed capacity is estimated to be 1 kW lower than the database indicates.

There is a 95% level of confidence that the installed capacity is the same as the database to 3 kW lower than the database.

In absolute terms, total annual consumption is estimated to be 4,700 kWh lower than the DUMML database indicates.

There is a 95% level of confidence that the annual consumption is between 1,400 kWh to 12,100 kWh p.a. lower than the database indicates.

Scenario	Description
A - Good accuracy, good precision	<p>This scenario applies if:</p> <ul style="list-style-type: none"> (a) R_H is less than 1.05; and (b) R_L is greater than 0.95 <p>The conclusion from this scenario is that:</p> <ul style="list-style-type: none"> (a) the best available estimate indicates that the database is accurate within +/- 5 %; and (b) this is the best outcome.
B - Poor accuracy, demonstrated with statistical significance	<p>This scenario applies if:</p> <ul style="list-style-type: none"> (a) the point estimate of R is less than 0.95 or greater than 1.05 (b) as a result, either R_L is less than 0.95 or R_H is greater than 1.05. <p>There is evidence to support this finding. In statistical terms, the inaccuracy is statistically significant at the 95% level</p>
C - Poor precision	<p>This scenario applies if:</p> <ul style="list-style-type: none"> (a) the point estimate of R is between 0.95 and 1.05 (b) R_L is less than 0.95 and/or R_H is greater than 1.05 <p>The conclusion from this scenario is that the best available estimate is not precise enough to conclude that the database is accurate within +/- 5 %</p>

Lamp description and capacity accuracy

I checked the wattages being applied in the RAMM database and found all wattages and ballasts were applied correctly. The last audit recommended that more detail be added to some light models to make the determination of wattage easier to confirm. This audit confirmed that this has been done for all but four lamp types:

Lamp Model	Volume
15 LED 3000K optic for Uno lantern model	6
8 LED 3000K optic for Uno lantern model	10
Cre 20 LED 700Ma	47
CRE Photon 24 LED	39
TOTAL	102

These have been passed to Genesis to progress.

ICP Accuracy

The ICPs for MPDC were correctly assigned. The NZTA lights are recorded in the database for maintenance purposes only.

As detailed in **section 2.1**:

There are five private lights in the database, but the ICP is recorded as “Private”. These are not included in the monthly report and are not reconciled anywhere else:

- four are associated with a retirement village; the ICPs associated with village have no unmetered load associated and there is no shared unmetered load - MPDC and Power Solutions are working with Powerco to resolve these, and
- the remaining item of load recorded against Follis Street is located on Riverview Lane and is mis-plotted; Powerco are in the process of disconnecting this light.

The four privately owned lights not being reconciled will potentially be resulting in an estimated under submission of 1,538 kWh per annum.

Festive lights

Festive lights are connected in the MPDC area. These are included in the monthly wattage report when connected and correctly excluded when not connected.

Change management process findings

The processes were reviewed for ensuring that changes in the field are notified through to PSL and there have been no changes to these processes since the last audit. Horizon enters all field data via “Pocket RAMM” directly into RAMM Contractor. The high level of accuracy found in the field audit confirms the process has robust controls.

Monthly “outage patrols” are conducted, and this process is used to check database accuracy.

MPDC follows the Powerco requirement for new streetlight connections which includes the contractor applying as if the lights are a new connection. This is a two-part process. The developer applies to Powerco for new streetlights. Once it is ready for livening a second request is required to liven the streetlights. Powerco request confirmation from the trader to accept the load. This then prompts them to liaise with the Council to confirm they agree to accept the load. Once this has been provided approval is given to the livening agent to electrically connect the lights and they are added to the MPDC RAMM database in parallel.

Audit outcome

Non-compliant

Non-compliance	Description		
<p>Audit Ref: 3.1 With: Clause 15.2 and 15.37B(b)</p> <p>From: 01-Jul-22 To: 11-Oct-22</p>	<p>Four private lights recorded in the database and confirmed as not being reconciled elsewhere resulting in an estimated minor under submission of 1,538 kWh per annum.</p> <p>Potential impact: Low Actual impact: Low Audit history: Multiple times Controls: Strong Breach risk rating: 1</p>		
Audit risk rating	Rationale for audit risk rating		
<p>Low</p>	<p>The controls are rated as strong, as the processes to manage the database are robust and mitigate risk to an acceptable level.</p> <p>The impact is assessed to be low as the unsubmitted volume associated with the private lights is very small. .</p>		
Actions taken to resolve the issue		Completion date	Remedial action status
<p>The District Council and Power Solutions are working with Powerco to ensure the unmetered load of the four private lights are recorded against an ICP in the retirement village so that the consumption is being reconciled.</p>		<p>1/12/2024</p>	<p>Investigating</p>
Preventative actions taken to ensure no further issues will occur		Completion date	
<p>The District Council has strong controls to ensure that any assets connected to the grid for which it should be accountable are recorded and reconciled. There is also continuous work to identify and resolve any historical issues where private lights are being recorded and reconciled by the District Council, working with the residents and other parties to ensure the responsibility of the lights are transferred to them.</p>		<p>Ongoing</p>	

3.2. 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

I reviewed the submission volumes for August 2024 and found five lights recorded as “yet to be connected to the network” were incorrectly included in the wattage report:

ICP	RAMM database lamp count	RAMM database kW value	August calculation	August calculation	kW variance
1000588658PC323	1,230	49.85	1,235	51.24	1.39

This will have resulted in a very minor over submission of an estimated 615 kWh for the month of August. This is expected to be corrected through the revision process.

The monthly wattage report is provided by Power Solutions and includes changes made at a daily level. There are five private lights in the database, but the ICP is recorded as “Private”. These are not included in the monthly report and are not reconciled anywhere else:

- four are associated with a retirement village; the ICPs associated with village have no unmetered load associated and there is no shared unmetered load - MPDC and Power Solutions are working with Powerco to resolve these, and
- the remaining item of load recorded against Follis Street is located on Riverview Lane and is mis-plotted; Powerco are in the process of disconnecting this light.

The four privately owned lights not being reconciled will potentially be resulting in an estimated under submission of 1,538 kWh per annum.

The correct ICP has been added to the two “privately owned” lights detailed in the last audit.

The field audit confirmed that the database is within the accuracy threshold as detailed in **section 3.1**.

Audit outcome

Non-compliant

Non-compliance	Description		
<p>Audit Ref: 3.2 With: Clause 15.2 and 15.37B(c)</p> <p>From: 12-Oct-22 To: 06-Sep-24</p>	<p>Calculation error for ICP 1000588658PC323 resulting in a very minor estimated over submission of 615 kWh for August 2024.</p> <p>Four private lights recorded in the database and confirmed as not being reconciled elsewhere resulting in an estimated minor under submission of 1,538 kWh per annum.</p> <p>Potential impact: Low Actual impact: Low Audit history: Multiple times Controls: Strong Breach risk rating: 1</p>		
Audit risk rating	Rationale for audit risk rating		
<p>Low</p>	<p>The controls are rated as strong as the controls will mitigate risk to an acceptable level.</p> <p>The impact is assessed to be low as the volumes are very minor.</p>		
Actions taken to resolve the issue		Completion date	Remedial action status
<p>The District Council and Power Solutions are working with Powerco to ensure the unmetered load of the four private lights are recorded against an ICP in the retirement village so that the consumption is being reconciled.</p> <p>Genesis has been using the background data to submit monthly consumption, this has caused Genesis to include "Yet to be connected" lights which will not happen going forward.</p>		<p>1/12/2024</p>	<p>Investigating</p>
Preventative actions taken to ensure no further issues will occur		Completion date	
<p>The District Council has strong controls to ensure that any assets connected to the grid for which it should be accountable are recorded and reconciled. There is also continuous work to identify and resolve any historical issues where private lights are being recorded and reconciled by the District Council, working with the residents and other parties to ensure the responsibility of the lights are transferred to them.</p>		<p>Ongoing</p>	

CONCLUSION

Genesis reconciles this DUML load using the GSL profile. Wattages are derived from monthly reports of the database information provided by MPDC. On and off times are derived from a data logger.

Power Solutions Limited (PSL) manages the database on behalf of MPDC. The field work was carried out by McKay Electrical until June 2024. Horizon is currently undertaking this work while the tender process is being completed.

The field audit confirmed that the database is within the accuracy threshold.

Overall, this database has a high level of accuracy and improvements have been made during the audit period:

- the light descriptions have been improved since the last audit,
- the two private lights being excluded from the monthly wattage report identified in the last audit have had the correct ICP recorded, and
- the monthly wattage report now includes changes made at a daily level.

This audit found three non-compliances and makes no recommendations. The future risk rating of three indicates that the next audit be completed in 24 months. I have considered this in conjunction with the comments from Genesis and agree with this recommendation.

PARTICIPANT RESPONSE

Genesis would like to thank the auditor for their thorough work in this audit.

MPDC has a high level of accuracy with their database, having a small amount of errors resulting in minor submission discrepancies. The minor non-compliances found are in the process of being addressed by MPDC, PSL and Genesis Energy. Despite the minor non-compliances found, MPDC has strong controls across the board which has led to the minimal number of discrepancies.

Genesis agree with the recommendation of the auditor to have the next audit performed in 24 months, due to the minor risk rating and three minor non-compliances found during this audit.