

ELECTRICITY INDUSTRY PARTICIPATION CODE  
DISTRIBUTED UNMETERED LOAD AUDIT REPORT



For

**GISBORNE DISTRICT COUNCIL AND  
GENESIS ENERGY  
NZBN 9429037706609**

Prepared by: Steve Woods

Date audit commenced: 6 June 2023

Date audit report completed: 13 August 2023

Audit report due date: 01-Sep-23

---

## TABLE OF CONTENTS

Executive summary .....	3
Audit summary .....	3
Non-compliances .....	3
Recommendations .....	4
Issues 4	
1. Administrative .....	5
1.1. Exemptions from Obligations to Comply with Code .....	5
1.2. Structure of Organisation .....	5
1.3. Persons involved in this audit.....	6
1.4. Hardware and Software .....	6
1.5. Breaches or Breach Allegations.....	6
1.6. ICP Data .....	6
1.7. Authorisation Received .....	7
1.8. Scope of Audit .....	7
1.9. Summary of previous audit .....	8
1.10. Distributed unmetered load audits (Clause 16A.26 and 17.295F).....	8
2. DUML database requirements.....	10
2.1. Deriving submission information (Clause 11(1) of Schedule 15.3) .....	10
2.2. ICP identifier and items of load (Clause 11(2)(a) and (aa) of Schedule 15.3) .....	11
2.3. Location of each item of load (Clause 11(2)(b) of Schedule 15.3) .....	11
2.4. Description and capacity of load (Clause 11(2)(c) and (d) of Schedule 15.3) .....	12
2.5. All load recorded in database (Clause 11(2A) of Schedule 15.3) .....	12
2.6. Tracking of load changes (Clause 11(3) of Schedule 15.3) .....	13
2.7. Audit trail (Clause 11(4) of Schedule 15.3).....	13
3. Accuracy of DUML database .....	15
3.1. Database accuracy (Clause 15.2 and 15.37B(b)) .....	15
3.2. Volume information accuracy (Clause 15.2 and 15.37B(c)) .....	18
Conclusion .....	20
Participant response .....	21

## EXECUTIVE SUMMARY

This audit of the **Gisborne District Council (GDC)** Unmetered Streetlights 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.

Genesis has compliant and accurate submission processes, and the submissions for April 2023 match the database.

The field audit of 250 items of load (6% of the database) confirmed the database was not accurate and over submission has occurred of 59,500 kWh per annum. The main cause is late updates from the LED rollout. Gisborne DC intends to investigate the cause of the missing updates to identify any additional changes that may be required.

The audit found four non-compliances and one recommendation is made. The future risk rating of 20 indicates that the next audit be completed in three months. I have considered this in conjunction with Genesis' comments and I recommend the next audit is conducted in 12 months, which reflects the prompt action taken to resolve the discrepancies identified.

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 identified annual over submission of 59,500 kWh.	Moderate	High	6	Identified
All load recorded in database	2.5	11(2A) of Schedule 15.3	Two additional lights identified in the field.	Moderate	Low	2	Cleared
Database accuracy	3.1	15.2 and 15.37B(b)	Inaccurate database leading to over submission of approx. 59,500 kWh per annum.	Moderate	High	6	Identified
Volume information accuracy	3.2	15.2 and 15.37B(c)	The field audit identified annual over submission of 59,500 kWh.	Moderate	High	6	Identified
<b>Future Risk Rating</b>						<b>20</b>	

<b>Future risk rating</b>	0	1-4	5-8	9-15	16-18	19+
<b>Indicative audit frequency</b>	36 months	24 months	18 months	12 months	6 months	3 months

## RECOMMENDATIONS

Subject	Section	Recommendation
Unmetered cameras	1.6	Check whether the cameras are connected to the streetlight circuits or not and whether they should be in this database and reconciled with the NST profile.

## 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

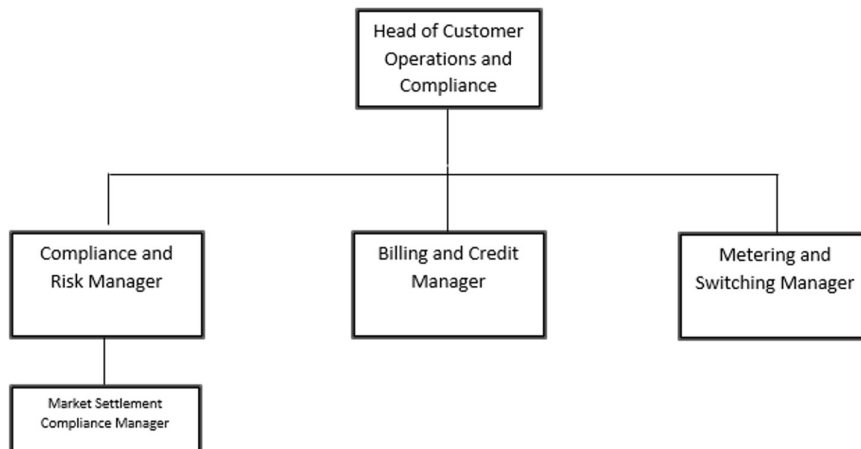
Section 11 of the Electricity Industry Act provides for the Electricity Authority to exempt any participant from compliance with all or any of the clauses.

#### Audit commentary

Genesis confirms that there are no exemptions in place relevant to the scope of this audit.

### 1.2. Structure of Organisation

Genesis provided the relevant organisational structure:



### 1.3. Persons involved in this audit

Auditor:

Name	Title	Company
Steve Woods	Electricity Authority Approved Auditor	Veritek Limited

Other personnel assisting in this audit were:

Name	Title	Company
Andrew Haughey	Senior Procurement Advisor	Gisborne DC
Nirav Teli	DUML Data & Stakeholder Lead	Genesis
Johan van Staden	Risk & Compliance Specialist	Genesis
Shantelle Comer	Customer Operations Data and Systems Specialist	Genesis

### 1.4. Hardware and Software

The SQL database used for the management of DUML is remotely hosted by thinkproject New Zealand Limited. The specific module used for DUML is called "SLIMM" which stands for "Streetlighting Inventory Maintenance Management".

The database is cloud based and its back-up is in accordance with standard industry procedures. Access to the database is secure by way of password protection.

Systems used by the trader and their agent 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

The table below shows the relevant ICPs.

ICP Number	Description	NSP	Profile	Number of items of load	Database wattage (watts)
0000740069EN998	Unmetered Decorative lights	TUI1101	NST	17	1,504
0000740501EN179	Unmetered Cameras	TUI1101	NST	8	160
0000740503EN1FC	Unmetered Streetlight Connections	TUI1101	NST	3,677	243,047
TOTAL				3702	244,711

The previous audit recorded ICP 0000740115EN6DF for unmetered pay and display units. This ICP is now decommissioned and is not part of the audit.

The unmetered cameras are connected to the streetlight circuit according to Gisborne DC, however they're also recorded as being on 24 hours per day, which is not possible if they're on the streetlight circuit which is only activated at night. I recommend this is checked to confirm whether these items of load should be in the database or not.

Description	Recommendation	Audited party comment	Remedial action
Unmetered cameras	Check whether the cameras are connected to the streetlight circuits or not and whether they should be in this database and reconciled with the NST profile.	These cameras have been investigated by the Council, findings will be used to properly reconcile these cameras and any issues will be addressed. Only 3 were found to be on streetlight circuits.	Identified

**1.7. Authorisation Received**

All information was provided directly by GDC and Genesis.

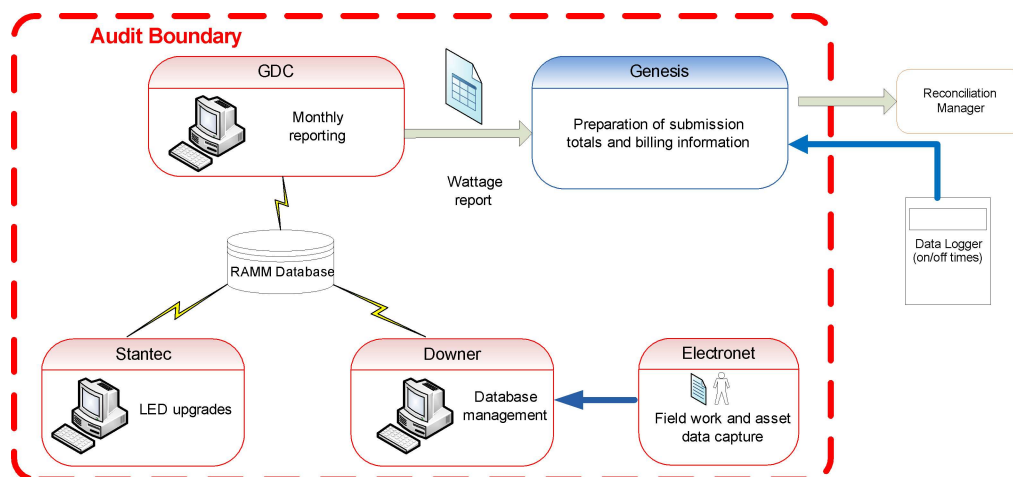
**1.8. Scope of Audit**

This audit of the GDC RAMM DUML 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 DUML audits version 1.1.

GDC provide a monthly report to Genesis. The on/off times are derived by a data logger interrogated by AMS.

The diagram below shows the audit boundary for clarity.



The field audit was carried out of 250 items of load on June 6<sup>th</sup>, 2023.

## 1.9. Summary of previous audit

The previous audit was conducted by Rebeca Elliot of Veritek Limited in August 2021. That audit found four non-compliances. The table below details the status of those findings.

### Table of Non-Compliance

Subject	Section	Clause	Non-compliance	Status
Deriving submission information	2.1	11(1) of Schedule 15.3	247 lights excluded from the monthly report provided to Genesis for submission.	Cleared
			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	247 lights excluded from the monthly report provided to Genesis for submission.	Cleared
Database accuracy	3.1	15.2 and 15.37B(b)	247 lights excluded from the monthly report provided to Genesis for submission (including 39 private lights).	Cleared
Volume information accuracy	3.2	15.2 and 15.37B(c)	247 lights excluded from the monthly report provided to Genesis for submission.	Cleared
			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	Recommendation	Status
		Nil	

## 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 has 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 this DUML load using the NST profile. The total volume submitted to the Reconciliation Manager is based on a monthly database report provided by GDC from RAMM. The “burn time” is sourced from a data logger. The NZTA lights in the Gisborne area are being reconciled by NZTA using the NZTA RAMM database and are therefore no longer part of the scope of this audit. I checked the submission for April 2023 and confirmed that the calculations were correct.

The previous audit noted a difference between the RAMM database totals and the totals in the report to Genesis. This matter is now resolved, and the totals used by Genesis for submission match the RAMM details. The lights in question were metered and are now identified as being metered.

The field audit identified annual over submission of 59,500 kWh. This is 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: 01-Sep-21 To: 13-Jul-23	The field audit identified annual over submission of 59,500 kWh. Potential impact: High Actual impact: High Audit history: Multiple times previously Controls: Moderate Breach risk rating: 6		
Audit risk rating	Rationale for audit risk rating		
High	The controls are rated as moderate because there are sound processes in place to identify business as usual changes, but the LED rollout appears to be causing some database inaccuracy.  The impact is assessed to be high because the impact on submission is greater than 50,000 kWh per annum.		
Actions taken to resolve the issue		Completion date	Remedial action status

Gisborne DC Database information was submitted on 17/05/2023. Since this date there have been significant improvements with a project to improve accuracy taking place in June and completed on 02/07/2023.	02/07/2023	Identified
<b>Preventative actions taken to ensure no further issues will occur</b>	<b>Completion date</b>	
Future rollouts of LED lighting will be managed to ensure these inaccuracies are considered so they do not repeat themselves. Field workers use Pocket RAMM to carry out live updates of the database, cutting out the risk of dockets and a paper trail.	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 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 that an ICP was recorded against each item of load.

### Audit commentary

All items of load had an ICP recorded.

### 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 a road or park name for all items of load. GPS co-ordinates are recorded for all items of load.

### 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

Lamp make, lamp mode and lamp wattage are included in the database. I examined the database and found all items of load had a wattage value and the correct ballasts have been applied where expected.

The overall accuracy of lamp descriptions, wattages and ballasts is recorded 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 250 lights using the statistical sampling methodology.

### Audit commentary

The field audit discrepancy findings are summarised in the table below. A detailed list was provided to Gisborne DC and Genesis.

Discrepancy	Quantity	Comments
Lights in the field not in the database	2	Gisborne DC will correct this.
Lights in the database not in the field	1	Gisborne DC will correct this.
Incorrect wattage	25	14 updates have occurred, and the remainder are imminent.
<b>GRAND TOTAL</b>	<b>28</b>	

This clause relates to lights in the field not recorded in the database. Two additional lights were identified in the field.

The accuracy of the database is discussed in **section 3.1**.

### Audit outcome

Non-compliant

Non-compliance	Description		
Audit Ref: 2.5 With: Clause 11(2A) of Schedule 15.3  From: 01-Sep-21 To: 13-Jul-23	Two additional lights identified in the field.  Potential impact: Low Actual impact: Low Audit history: Twice previously Controls: Moderate Breach risk rating: 2		
Audit risk rating	Rationale for audit risk rating		
Low	The controls are rated as moderate because they mitigate risk most of the time.  The impact is assessed to be low as the number of lights missing from the database is small.		
Actions taken to resolve the issue		Completion date	Remedial action status
These lights have been added to the database to ensure they are properly recorded and reconciled.		01/07/2023	Cleared
Preventative actions taken to ensure no further issues will occur		Completion date	
The Council carries out reviews of the database to ensure proper and accurate records of assets in the field. These will be reviewed to ensure controls are strong. Night Audits are currently carried out 6-monthly and annually for VCAT and PCAT respectively.		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 ability of the database to track changes was assessed and the process for tracking of changes in the database was examined.

### Audit commentary

The 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 database has a complete audit trail.

**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	Gisborne District Council
Strata	<p>The GDC RAMM database contains the items of unmetered load in the Gisborne District Council area.</p> <p>The processes for the management of items of load are the same, but I decided to place the items of load into four strata, as follows:</p> <ul style="list-style-type: none"> <li>• street name A-De,</li> <li>• street name Di-Jo,</li> <li>• street name Ju-P, and</li> <li>• street name Q-Y.</li> </ul>
Area units	I created a pivot table of the ICP in each area and used a random number generator in a spreadsheet to select a total of 63 sub-units representing 6% of the total database load.
Total items of load	250 items of load were checked.

Wattages were checked for alignment with the published standardised wattage table produced by the Electricity Authority against the database or in the case of LED lights against the LED light specification.

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

##### Audit commentary

##### Database accuracy based on the field audit

A field audit was conducted of a statistical sample of 250 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	94.2	Wattage from survey is lower than the database wattage by 5.8%
R <sub>L</sub>	88.2	With a 95% level of confidence, it can be concluded that the error could be between -11.8% and - 0.6%
R <sub>H</sub>	99.4	

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 B (detailed

below) applies. Scenario B means the database has poor accuracy, demonstrated with statistical significance.

In absolute terms the installed capacity is estimated to be 14 kW lower than the database indicates.

There is a 95% level of confidence that the installed capacity is between 1.0 kW lower and 28.0 kW lower than the database.

In absolute terms, total annual consumption is estimated to be 59,500 kWh lower than the DUML database indicates.

There is a 95% level of confidence that the annual consumption is between 5,800 kWh p.a. lower to 121,600 kWh p.a. lower than the database indicates.

Scenario	Description
<p><b>A - Good accuracy, good precision</b></p>	<p>This scenario applies if:</p> <ul style="list-style-type: none"> <li>(a) <math>R_H</math> is less than 1.05; and</li> <li>(b) <math>R_L</math> is greater than 0.95</li> </ul> <p>The conclusion from this scenario is that:</p> <ul style="list-style-type: none"> <li>(a) the best available estimate indicates that the database is accurate within +/- 5 %; and</li> <li>(b) this is the best outcome.</li> </ul>
<p><b>B - Poor accuracy, demonstrated with statistical significance</b></p>	<p>This scenario applies if:</p> <ul style="list-style-type: none"> <li>(a) the point estimate of R is less than 0.95 or greater than 1.05</li> <li>(b) as a result, either <math>R_L</math> is less than 0.95 or <math>R_H</math> is greater than 1.05.</li> </ul> <p>There is evidence to support this finding. In statistical terms, the inaccuracy is statistically significant at the 95% level</p>
<p><b>C - Poor precision</b></p>	<p>This scenario applies if:</p> <ul style="list-style-type: none"> <li>(a) the point estimate of R is between 0.95 and 1.05</li> <li>(b) <math>R_L</math> is less than 0.95 and/or <math>R_H</math> is greater than 1.05</li> </ul> <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**

The RAMM database was examined and found that all wattages and ballasts were correct.

#### **NZTA lighting**

NZTA lighting is not included in the GDC RAMM database and is no longer included in the scope of this audit. These are being audited as part of an NZTA RAMM database for another trader.

#### **ICP accuracy**

All items of load have an ICP identifier recorded in the extract provided to Genesis for submission.

#### **Location accuracy**

The database contains fields for the street address and GPS coordinates for all items of load.



### Private lights

The database contains some private lights. None are excluded from submission.

### Festive lights

Festive lights are used but these are connected to metered circuits so do not need to be considered as part of this audit.

### Change management process findings

All new streetlight circuits are required to be metered by the network.

The GDC RAMM database is being used for billing and reconciliation. Electronet provide updates to the RAMM database on behalf of GDC. Roading Logistics assists with oversight of database accuracy. The relevant install dates are being used to ensure lights are accounted for correctly. GDC produce a monthly wattage report and provide this to Genesis. The report allows changes made to the database at a daily level to be identified.

Outage patrols are carried out as part of the maintenance contract but as the LED rollout nears completion this requirement is expected to be reduced.

The LED roll out is about 72% complete. There appear to still be delays in getting the LED information into the database, and the field audit found 21 of 28 discrepancies were LED upgrades not populated in the database.

### Audit outcome

Non-compliant

Non-compliance	Description		
Audit Ref: 3.1 With: Clause 15.2 and 15.37B(b)  From: 01-Sep-21 To: 13-Jul-23	Inaccurate database leading to over submission of approx. 59,500 kWh per annum.  Potential impact: High Actual impact: High Audit history: Multiple times Controls: Moderate Breach risk rating: 6		
Audit risk rating	Rationale for audit risk rating		
High	The controls are rated as moderate because there are sound processes in place to identify business as usual changes, but the LED rollout appears to be causing some database inaccuracy.  The impact is assessed to be high because the impact on submission is greater than 50,000 kWh per annum.		
Actions taken to resolve the issue		Completion date	Remedial action status
Gisborne DC Database information was submitted on 17/05/2023. Since this date there have been significant improvements with a project to improve accuracy taking place in June and completed on 02/07/2023.		02/07/2023	Identified

Preventative actions taken to ensure no further issues will occur	Completion date	
Future rollouts of LED lighting will be managed to ensure these inaccuracies are considered so they do not repeat themselves. Field workers use Pocket RAMM to carry out live updates of the database, cutting out the risk of docketing and a paper trail.	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

Genesis reconciles this DUML load using the NST profile. The total volume submitted to the Reconciliation Manager is based on a monthly database report provided by GDC from RAMM. The “burn time” is sourced from a data logger. The NZTA lights in the Gisborne area are being reconciled by NZTA using the NZTA RAMM database and are therefore no longer part of the scope of this audit. I checked the submission for April 2023 and confirmed that the calculations were correct.

The previous audit noted a difference between the RAMM database totals and the totals in the report to Genesis. This matter is now resolved, and the totals used by Genesis for submission match the RAMM details. The lights in question were metered and are now identified as being metered.

The field audit identified annual over submission of 59,500 kWh. This is detailed in **section 3.1**.

#### Audit outcome

Non-compliant

Non-compliance	Description		
Audit Ref: 3.2 With: Clause 15.2 and 15.37B(c) From: 01-Sep-21 To: 13-Jul-23	The field audit identified annual over submission of 59,500 kWh. Potential impact: High Actual impact: High Audit history: Multiple times previously Controls: Moderate Breach risk rating: 6		
Audit risk rating	Rationale for audit risk rating		
<b>High</b>	The controls are rated as moderate because there are sound processes in place to identify business as usual changes, but the LED rollout appears to be causing some database inaccuracy. The impact is assessed to be high because the impact on submission is greater than 50,000 kWh per annum.		
Actions taken to resolve the issue		Completion date	Remedial action status
Gisborne DC Database information was submitted on 17/05/2023. Since this date there have been significant improvements with a project to improve accuracy taking place in June and completed on 02/07/2023.		02/07/2023	Identified
Preventative actions taken to ensure no further issues will occur		Completion date	
Future rollouts of LED lighting will be managed to ensure these inaccuracies are considered so they do not repeat themselves. Field workers use Pocket RAMM to carry out live updates of the database, cutting out the risk of dockets and a paper trail.		Continuous Improvement	

## CONCLUSION

Genesis has compliant and accurate submission processes and the submissions for April 2023 match the database.

The field audit of 250 items of load (6% of the database) confirmed the database was not accurate and over submission has occurred of 59,500 kWh per annum. The main cause is late updates from the LED rollout. Gisborne DC intends to investigate the cause of the missing updates to identify any additional changes that may be required.

The audit found four non-compliances and one recommendation is made. The future risk rating of 20 indicates that the next audit be completed in three months. I have considered this in conjunction with Genesis' comments and I recommend the next audit is conducted in 12 months, which reflects the prompt action taken to resolve the discrepancies identified.

## PARTICIPANT RESPONSE

Gisborne District Council has made significant improvement on the accuracy of its DUML database in the past two months. This project has addressed the three high risk audit points and preventative measures have been put in place to mitigate the risk of the database losing accuracy.

Further areas of improvement that have been identified are Parks & Reserves. These will be targeted to better database accuracy in the following months.

Gisborne District Council and Genesis Energy submit that the next audit should take place in 12 months' time, to assess the database accuracy with improvements made and to assess the strength of the new preventative measures that have been put in place.