Compliance plan for Meridian Energy Wellington CC DUML April 2024

	Deriving submission inform	ation	
Non-compliance	De	scription	
Audit Ref: 2.1 With: Clause 11(1) of Schedule 15.3	Under submission of 88.04 kWh occur 1001152339CKE9F, because the load but should have been based on 52.74	was calculated ba	
	The database was found not to be accurate within ±5.0%. Based on the field audit total annual consumption is estimated to be 398,300 kWh higher than the DUML database indicates before dimming is accounted for. The actual amount of under submission is likely to be closer to half this volume, because just over half of the lights in the database are dimmed. Each dimmed light is dimmed by an average of 50%.		
	115 items of load had no lamp make, model, lamp and gear wattage recorded. 20 are feedback signs and 95 are IoT Access Point/Gateways. The expected wattage is to be confirmed.		
	The total effective wattage is rounded to the nearest whole number. For example, a 27W light dimmed by 50% is recorded as 14W rather than 13.5W. This could result in estimated over submission of 10,822 kWh per annum across all the dimmed lights.		
	Lights which are dynamically dimmed have the full wattage recorded in the total effective wattage field in RAMM, which will result in over submission.		
	The monthly database extract provided does not track changes at a daily basis and is provided as a snapshot.		
	Potential impact: High		
	Actual impact: Unknown		
From: 01-Jan-24	Audit history: Multiple times		
To: 31-Mar-24	Controls: Weak		
	Breach risk rating: 9		
Audit risk rating	Rationale for audit risk rating		3
High	Overall, the controls are rated as weak, because the database was confirmed not to be accurate within $\pm 5\%$. The impact is assessed to be high, based on the kWh differences described above.		
Actions tak	en to resolve the issue	Completion date	Remedial action status
Meridian has advised WCC has requested for correction	of the inaccuracies identified and ons to be made.	9/04/2024	Identified
	as advised, they are not luminaires; operating wattage which is mapped	10/04/2024	

to the total effective wattage and the total wattage in the power return. The total effective wattage is rounded to the nearest whole number – WCC has advised that their system does round up to the closet whole number. They have approached the platform developers to see if this is something that can be amended. Lights which are dynamically dimmed – WCC has advised, the lights are statically dimmed, and the dimmed wattage shows in the total effective wattage field in Ramm.	10/04/2024
Preventative actions taken to ensure no further issues will occur	Completion date
	-

Description and capacity of load			
Non-compliance	Description		
Audit Ref: 2.4	115 items of load had no lamp make,	model, lamp and	gear wattage recorded.
With: Clauses 11(2)(c)	Potential impact: Low		
and (d) of Schedule 15.3	Actual impact: Low		
	Audit history: Multiple times		
From: 01-Feb-24	Controls: Moderate		
To: 28-Feb-24	Breach risk rating: 4		
Audit risk rating	Rationale fo	or audit risk rating	g
Medium	Controls are rated as moderate, as th items of load have wattage and descr	,	
	The impact is estimated to be mediur identified.	n, based on the n	umber of exceptions
Actions tak	en to resolve the issue	Completion date	Remedial action status
nominal operating wattage	not luminaires; they have a single which is mapped to the total cotal wattage in the power return.	10/04/2024	Identified
Preventative actions tal	en to ensure no further issues will occur	Completion date	

All load recorded in database			
Non-compliance	Description		
Audit Ref: 2.5 With: Clauses 11(2A) of	30 additional lamps in the field were sample of 568 items of load.	30 additional lamps in the field were not recorded in the database from a sample of 568 items of load.	
Schedule 15.3	Potential impact: High		
Actual impact: Unknown			
	Audit history: Multiple times		
From: 01-Jan-24	Controls: Weak		
To: 31-Mar-24	Breach risk rating: 3		
Audit risk rating	Rationale fo	or audit risk rating	B
Low	The controls are rated as weak due to the quantity of missing lights relative to the sample size.		
	The impact is expected to be low, based on an estimate of the unreported consumption using the average load across all lights in the database.		· ·
Actions tak	en to resolve the issue	Completion date	Remedial action status
Meridian has advised WCC has requested for correction	of the inaccuracies identified and ons to be made.	9/4/2024	Identified
WCC has advised that they data before updating the d	will perform site visits to confirm atabase	10/04/2024	
Preventative actions tak	en to ensure no further issues will occur	Completion date	
Meridian will continue to for the inaccuracies corrected.	ollow up with WCC regularly to have	13/10/2024	

	Database accuracy
Non-compliance	Description
Audit Ref: 3.1 With: Clause 15.2 and 15.37B(b)	The database was found not to be accurate within ±5.0%. Based on the field audit total annual consumption is estimated to be 398,300 kWh higher than the DUML database indicates before dimming is accounted for. The actual amount of under submission is likely to be closer to half this volume, because just over half of the lights in the database are dimmed. Each dimmed light is dimmed by an average of 50%. 115 items of load had no lamp make, model, lamp and gear wattage recorded. 20 are feedback signs and 95 are IoT Access Point/Gateways. The expected wattage is to be confirmed. The total effective wattage is rounded to the nearest whole number. For example, a 27W light dimmed by 50% is recorded as 14W rather than 13.5W.

	This could result in estimated over submission of 10,822 kWh per annum across
	all the dimmed lights.
	Lights which are dynamically dimmed have the full wattage recorded in the total effective wattage field in RAMM, which will result in over submission.
	Potential impact: High
From: 01-Jan-24	Actual impact: High
To: 31-Mar-24	Audit history: Multiple times
	Controls: Weak
	Breach risk rating: 9
Audit risk rating	Rationale for audit risk rating
High	Overall, the controls are rated as weak, because the database was confirmed not to be accurate within ±5%. The impact is assessed to be high, based on the kWh differences described above.

Actions taken to resolve the issue	Completion date	Remedial action status
Meridian has advised WCC of the inaccuracies identified and has requested for corrections to be made.	9/04/2024	Identified
115 items of load – WCC has advised, they are not luminaires; they have a single nominal operating wattage which is mapped to the total effective wattage and the total wattage in the power return.	10/04/2024	
The total effective wattage is rounded to the nearest whole number – WCC has advised that their system does round up to the closet whole number. They have approached the platform developers to see if this is something that can be amended.	10/04/2024	
Lights which are dynamically dimmed – WCC has advised, the lights are statically dimmed, and the dimmed wattage shows in the total effective wattage field in Ramm.	10/04/2024	
Preventative actions taken to ensure no further issues will occur	Completion date	
Meridian will continue to follow up with WCC regularly to have the inaccuracies corrected.	13/10/2024	

	Volume information accu	racy	
Non-compliance	De	scription	
Audit Ref: 3.2 With: Clause 15.2 and 15.37B(c)	Under submission of 88.04 kWh occu 1001152339CKE9F, because the load but should have been based on 52.74	was calculated ba	
	The database was found not to be accurate within ±5.0%. Based on the field audit total annual consumption is estimated to be 398,300 kWh higher than the DUML database indicates before dimming is accounted for. The actual amount of under submission is likely to be closer to half this volume, because just over half of the lights in the database are dimmed. Each dimmed light is dimmed by an average of 50%.		
	115 items of load had no lamp make, model, lamp and gear wattage recorded. 20 are feedback signs and 95 are IoT Access Point/Gateways. The expected wattage is to be confirmed.		
	The total effective wattage is rounded to the nearest whole number. For example, a 27W light dimmed by 50% is recorded as 14W rather than 13.5W. This could result in estimated over submission of 10,822 kWh per annum across all the dimmed lights.		
	Lights which are dynamically dimmed have the full wattage recorded in the total effective wattage field in RAMM, which will result in over submission.		
	The monthly database extract provided does not track changes at a daily basis and is provided as a snapshot.		
	Potential impact: High		
	Actual impact: Unknown		
	Audit history: Multiple times		
From: 01-Jan-24	Controls: Weak		
To: 31-Mar-24	Breach risk rating: 9		
Audit risk rating	Rationale fo	or audit risk rating	g
High	Overall, the controls are rated as weak, because the database was confirmed not to be accurate within ±5%. The impact is assessed to be high, based on the kWh differences described above.		
Actions tak	en to resolve the issue	Completion date	Remedial action status
Meridian has advised WCC has requested for correction	of the inaccuracies identified and ons to be made.	9/04/2024	Identified
they have a single nominal	as advised, they are not luminaires; operating wattage which is mapped ge and the total wattage in the	10/04/2024	
number – WCC has advised the closet whole number.	e is rounded to the nearest whole d that their system does round up to They have approached the platform something that can be amended.	10/04/2024	

Lights which are dynamically dimmed – WCC has advised, the lights are statically dimmed, and the dimmed wattage shows in the total effective wattage field in Ramm.	10/04/2024
Preventative actions taken to ensure no further issues will occur	Completion date
occui	uate
Meridian will continue to follow up with WCC regularly to have the inaccuracies corrected.	13/10/2024
We have assessed our processes and tools to account for historic lamp installations and changes to the database at a daily level. There are checks in place comparing month to month data to identify any material changes and confirm details for these. These are accounted for in monthly submission.	Ongoing