

# **Threshold Compliance Statement**

For the assessment period ending 31 March 2010

### Pursuant to

The Commerce Act (Electricity Distribution Thresholds) Notice 2004 and Amendment Notice 2006

# **DS5001**

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21 May 2010

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# **Threshold Compliance Statement**



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### 1 ASSESSMENT AGAINST CLAUSE 5; THE PRICE PATH THRESHOLD

### 1.1. Clause 5(1)(a) Notional Revenue at each Assessment Date

In accordance with clause 5(1)(a) of the Commerce Act (Electricity Distribution Thresholds) Notice 2004 and the Amendment Notice 2006 (the Gazette Notice) the Notional Revenue of Unison at each assessment date (the numerator of the left-hand side of the following expression) is not to exceed the Allowable Notional Revenue of Unison under the CPI-X price path at that assessment date (the denominator of the left-hand side of the following expression):

Test:	NR 2010 R 2010	≤1
Result:	\$67,534,017 / \$67,542,716	< 1
Result:	0.9999	< 1
Result:	Threshold is not breached	

Supporting evidence is provided in Appendices A, B, C, D and E.

## 1.2. Clause 5(1)(b) Notional Revenue during each Assessment period

In accordance with the Gazette Notice, the Notional Revenue of Unison at any time during an Assessment Period is not to exceed the greater of the Allowable Notional Revenue of Unison at the assessment date on which that Assessment Period ends and the Allowable Notional Revenue of Unison at the previous assessment date under this clause (or, if the previous assessment date is the reference date, under clause 5 of the Commerce Act (Electricity Lines Thresholds) Notice (the Initial Notice)).

Test:	$\frac{NR_{Max}}{Max(R_{2009},R_{2010})}$	≤1
Result:	\$67,534,017 / \$67,542,716	< 1
Result:	0.9999	< 1
Result:	Threshold is not breached	

Supporting evidence is provided in Appendices C and F.

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### 1.3. Sources of Revenue

In accordance with the Gazette Notice, the following sources of revenue have been included in the calculation of Notional Revenue:

• Line Revenue from distribution network charges.

### 1.4. Excluded Services

In accordance with the Gazette Notice, the following sources of revenue have been excluded from the calculation of Notional Revenue:

- Losses and constraint excess payments, these are passed back transparently to retailers on all of Unison's distribution networks;
- Revenue from dedicated assets, where these are used by a single customer and charged to that customer. There is effective competition for the provision of these assets as some customers pay for the cost of capital on their dedicated assets as opposed to purchasing them;
- Revenue from excess KVAr charges as there is effective competition as the customer has the choice of installing power protection equipment as an alternative to the charges of this service;
- Management services provided to other lines businesses (as these are non conveyance services);
- Value of assets vested in Unison on behalf of customers;
- Disconnection and reconnection income because Use of System Agreements across Unison's distribution network allow for suitably trained and authorised service providers to undertake disconnection and reconnection services on behalf of retailers;
- Instantaneous reserves revenue as this income is derived as a result of a competitive tendering process and forms non-conveyance services not directly related to the provision of electricity distribution;
- Fault related recoveries, as these are recoveries of costs not related to the conveyance of electricity; and
- Miscellaneous other revenue, for example interest, rent, profit on sale of assets. These income sources are derived from non conveyance services.

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#### 1.5. **Transmission Costs**

In accordance with the Gazette Notice, the following components of transmission charges have been included in pass through costs:

- Connection charges;
- Interconnection charges;
- · New investment agreement charges;
- · Avoided transmission charges;
- Notional embedding charges

#### 1.6. **Local Authority Rates**

In accordance with the Gazette Notice, local authority rates applying to system fixed assets: lines, cables, equipment, and substation land and buildings, have been included in pass through costs.

#### 1.7. **Electricity Commission Levies**

In accordance with the Gazette Notice, Electricity Commission levies paid during the Assessment Period have been included in pass through costs.

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### 2 ASSESSMENT AGAINST CLAUSE 6; THE QUALITY THRESHOLD

### 2.1 Clause 6(1)(a) Interruption Duration

Unison complies with Clause 6(1)(a) of the Quality Threshold for the Assessment Period ending on 31 March 2010 as specified by the Gazette Notice.

In accordance with the Gazette Notice, the System Average Interruption Duration Index (SAIDI) of Unison for each Assessment Period is not to exceed the five-year average SAIDI of Unison to 31 March 2003 (the right-hand side of the following expression):

Test: 
$$SAIDI_{2010} \le \left(\frac{SAIDI_{1999} + SAIDI_{2000} + SAIDI_{2001} + SAIDI_{2002} + SAIDI_{2003}}{5}\right)$$

Result: 110.88 < 152.70

Result: SAIDI does not breach the threshold

The SAIDI result is under the threshold by 41.82 minutes. Supporting evidence is provided in Appendices H, I and J.

### 2.2 Clause 6(1)(b) Interruption Frequency

Unison complies with Clause 6(1)(b) of the Quality Threshold for the Assessment Period ending on 31 March 2010 as specified by the Gazette Notice.

In accordance with the Gazette Notice, the System Average Interruption Frequency Index (SAIFI) of Unison for each Assessment Period is not to exceed the five-year average SAIFI of Unison to 31 March 2003 (the right-hand side of the following expression):

SAIFI is under the threshold by 0.80 interruptions, supporting evidence is provided in Appendices H, I and J.

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#### 2.3 Clause 6(1)(c) Customer Communication

The customer communication criteria for this price path period, has already been satisfied.

### 3 DISCLAIMER

The information presented in this Threshold Compliance Statement has been prepared solely for the purpose of complying with the requirements of the Gazette Notice. This statement has not been prepared for any other purpose and Unison Networks Limited expressly disclaims any liability to any other party who may rely on this statement for any other purpose.

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### **AUDITORS' REPORT ON THRESHOLD COMPLIANCE STATEMENT**

To the readers of the Threshold Compliance Statement of Unison Networks Limited for the assessment period ended on 31 March 2010

We have examined the attached statement, which is a Threshold Compliance Statement in respect of the price path threshold and the quality threshold prepared by Unison Networks Limited for assessment as at 31 March 2010 and dated 21 May 2010 for the purposes of information requirements set out in clause 7 of the Commerce Act (Electricity Lines Thresholds) Notice 2004 ("the Notice"). In this report the attached statement is called "the threshold compliance statement".

### Directors' Responsibilities

Directors of Unison Networks Limited are responsible for the certification, confirming the compliance or otherwise, of the Threshold Compliance Statement in accordance with the Notice.

### **Auditors' Responsibilities**

It is our responsibility to express an independent opinion (in the form prescribed in the Notice) on the Threshold Compliance Statement and report our opinion to you.

We conducted our audit in accordance with the Auditing Standards issued by the Institute of Chartered Accountants of New Zealand.

# Basis of Opinion - Price Path Threshold and Quality Threshold: SAIDI and SAIFI Statistics for the Assessment Period ended 31 March 2010

Our audit included examination, on a test basis, of evidence relevant to the amounts and disclosures contained on pages 4 to 8 and Appendices A to J of the Threshold Compliance Statement and which relate to:

- the price path threshold set out in clause 5 of the Notice; and
- the SAIDI and SAIFI statistics for the assessment period ended on 31 March 2010 which are relevant to those parts of the quality threshold that are set out in clauses 6(1)(a) and 6(1)(b) of the Notice.

It also included an assessment of the significant estimates and judgements, if any, made by Unison Networks Limited in the preparation of the Threshold Compliance Statement and an assessment of whether the basis of preparation has been adequately disclosed.

We planned and performed our audit of the Threshold Compliance Statement so as to obtain all the information and explanation which we considered necessary, including for the purpose of obtaining sufficient evidence to give reasonable assurance that the Threshold Compliance Statement is free from material misstatements (whether caused by fraud or error), except that our work was limited in respect of the quality threshold: SAIDI and SAIFI statistics as explained below. In forming our opinion we also evaluated the overall adequacy of the presentation of information in the threshold compliance statement.



# AUDITORS' REPORT ON THRESHOLD COMPLIANCE STATEMENT Unison Networks Limited

# Basis of Opinion - Quality Threshold: SAIDI and SAIFI Statistics for the Years Ended 31 March 1999, 2000, 2001, 2002 and 2003

In relation to the SAIDI and SAIFI statistics for the years ended 31 March 1999, 2000, 2001, 2002 and 2003 which are relevant to those parts of the quality threshold that are set out in clauses 6(1)(a) and 6(1)(b) of the Notice, we have undertaken procedures to provide reasonable assurance that:

- the amounts and disclosures in the Threshold Compliance Statement relating to those statistics have been correctly taken from the information disclosed by Unison Networks Limited in accordance with the Electricity (Information Disclosure) Regulations 1999; and
- those statistics have been calculated based on the source data provided to us. We have not
  performed audit procedures on the source data.

### Relationship and Interests

We have no relationship with or interests in Unison Networks Limited other than in our capacities as auditors of the threshold compliance statements and in the provision of other professional advisory services. We are not aware of any relationships between our firm and Unison Networks Limited that, in our professional judgment, may reasonably be thought to impair our independence.

### **Opinions**

### **Unqualified Opinion**

We have obtained all the information and explanations we have required.

### Price Path Threshold

In our opinion, having made all reasonable enquiry, to the best of our knowledge the amounts or details set out in the Threshold Compliance Statement relating to the price path threshold set out in clause 5 of the Notice and related information have been prepared in accordance with the Notice, and give a true and fair view of the performance of Unison Networks Limited against that threshold for the assessment period ended on 31 March 2010.

### Quality Threshold: SAIDI and SAIFI statistics

in our opinion, having made all reasonable enquiry, to the best of our knowledge:

- a) The SAIDI and SAIFI statistics for the assessment period ended on 31 March 2010 which are relevant to those parts of the quality threshold that are set out in clauses 6(1)(a) and 6(1)(b) of the Notice and related information have been calculated or prepared in accordance with Unison Networks Limited's policies and procedures for recording SAIDI and SAIFI statistics as disclosed in the threshold compliance statement, and fairly represent the performance of Unison Networks Limited for the assessment period ended on 31 March 2010; and
- b) The SAIDI and SAIFI statistics for the years ended 31 March 1999, 2000, 2001, 2002 and 2003, which are relevant to those parts of the quality threshold that are set out in clauses 6(1)(a) and 6(1)(b) of the Notice have been correctly taken from the information disclosed by Unison Networks Limited in accordance with the Electricity (Information Disclosure) Regulations 1999. Those statistics have been properly calculated based on the unaudited source data provided to us by Unison Networks Limited. The SAIDI and SAIFI statistics in the Threshold Compliance Statement include information relating to periods when Unison Networks Limited did not own the Rotorua and Taupo Networks which were acquired from UnitedNetworks Limited on 1 November 2002.



# AUDITORS' REPORT ON THRESHOLD COMPLIANCE STATEMENT Unison Networks Limited

# Qualified Opinion

Our opinion is qualified as follows:

### Quality Threshold: SAIDI and SAIFI statistics

The scope of our audit was subject to the following limitations:

- As detailed in Appendix G of the threshold compliance statement, outage records are not available for the entire historical period;
- Prior to the implementation of a fault management system in 1999 control over the completeness and accuracy of outage records was limited;
- Interconnection point (ICP) records for the Rotorua and Taupo networks are not available prior to their acquisition by Unison Networks Limited in 2002; and
- Control over the completeness and accuracy of ICP data included in the SAIDI and SAIFI
  calculations is limited throughout the period.

Because of these limitations, there are no practical audit procedures that we could adopt to confirm independently that all outage and ICP data was properly recorded for the purposes of inclusion in the amounts or details set out in the quality threshold: SAIDI and SAIFI statistics.

In these respects alone we have not obtained all the information and explanations that we have required.

Because of the potential effect of the limitations in the evidence available to us, we are unable to form an opinion as to whether the amounts or details set out in the quality threshold: SAIDI and SAIFI statistics for the assessment period ended on 31 March 2010, together with the SAIDI and SAIFI statistics for the years ended 31 March 1999, 2000, 2001, 2002 and 2003, give a true and fair view of the performance of Unison Networks Limited against those parts of the quality threshold that are set out in clauses 6(1)(a) and 6(1)(b) of the Notice for the assessment period ended on 31 March 2010.

Our audit was completed on 21 May 2010 and our qualified and unqualified opinions are expressed as at that date.

PricewaterhouseCoopers

Auckland 21 May 2010



### 5 CERTIFICATION OF THRESHOLD COMPLIANCE STATEMENT

We, Kevin Henry Atkinson and John Richard Palairet, being Directors of Unison Networks Limited certify that, having made all reasonable enquiry, to the best of our knowledge and belief, the attached Threshold Compliance Statement of Unison Networks Limited, and related information, prepared for the purposes of the Commerce Act (Electricity Distribution Thresholds) Notice 2004 complies with the requirements of that notice.



Kevin Henry Atkinson
Chairman of Board of Directors
Unison Networks Limited

John Richard Palairet

John Richard Palairet
Chairman of Audit Committee
Director
Unison Networks Limited

21 May 2010



### APPENDIX A; PRICE AND QUANTITY EXPLANATORY INFORMATION

### A1 Price

The full pricing policy for both pricing regions can be viewed on Unison's website <a href="http://www.unison.co.nz">http://www.unison.co.nz</a>

### A2 Quantities

Quantities applied for  $Q_{2007}$  Historical Pricing Methodology

In 2007 quantities were rebased from 2003Q to 2007Q due to tariff restructuring that occurred during that assessment year. For further explanation please refer to the 2007 Threshold Compliance Statement. The base quantities for the year ending 31 March 2007 have been used to calculate Notional Revenue for the assessment period ending 31 March 2010.

### A3 Transmission

Unison has passed through Loss and Constraint Excess Payments (LCEP) transparently to retailers over the entire regulatory period on the Hawke's Bay network and on the Rotorua and Taupo distribution networks since it acquired them on 1 November 2002. Unison has not changed the treatment of LCEP over the current Assessment Period.

Consistent with the Gazette Notice all other transmission costs have been treated as a pass through cost in the modelling. Avoided transmission charges from embedded generators have been included on all distribution networks. All transmission and avoided transmission information is readily available over the Assessment Period from invoice information.

## **A4** Local Authority Rates

The District and Regional Councils on the distribution networks that Unison owns and operates have a different financial year for rating purposes than the Assessment Period. In order to determine the actual rates paid over the Assessment Period Unison has annualised the rates (determined from Council invoices) for each District or Regional Council into a daily charge and applied that charge for the portion of days that the charge overlapped the Assessment Period.

### **A5** Electricity Commission Levies

Under Section 172ZC of the Electricity Amendment Act 2001, the Crown is authorised to recover the cost of the Electricity Commission via levies. These levies, payable

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during the assessment period, have been passed through in accordance with the Gazette Notice.

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## **APPENDIX B; PRICE PATH THRESHOLD 5(1)(A)**

#### **B1** Calculating NR<sub>2010</sub>

NR<sub>2010</sub> is calculated by multiplying prices at 31 March 2010 by 2007 remapped quantities less the pass through costs incurred during the Assessment Period ending 31 March 2010.

Notional Revenue for the year ending 31 March 2010 Term Description (\$)								
$\mathit{\Sigma P}_{i,2010}\mathit{Q}_{i,2007}$	Prices at 31 March 2010 multiplied by 31 March 2007 Remapped Quantities	94,415,090						
	Transmission Charges for year ending 31 March 2010	26,462,199						
K 2010	Rates for year ending 31 March 2010	201,577						
	Electricity Commission Levies for year ending 31 March 2010	217,297						
$NR_{2010} = \Sigma P_{i,2010} Q_{i,2007} - K_{2010}$	Notional Revenue for the year ending 31 March 2010	67,534,017						

#### **B2** Calculating Rebased R<sub>2007</sub>

Due to a pricing methodology change on 1 December 2006 Unison calculated a rebased R<sub>2007</sub>. These values have previously been disclosed by Unison in the Threshold Compliance Statement for the assessment period ending 31 March 2007.

Maximum Notional Revenue at the reference date which would not have caused the distribution business to breach the price path under the Initial Notice							
Term	(\$)						
$\mathit{\Sigma P}_{i,2007}Q_{i,2007}$	Theoretical Prices at 31 March 2007 multiplied by 31 March 2007 Remapped Quantities	83,328,112					
	Transmission Charges for year ending 31 March 2007	20,934,448					
$K_{2007}$	Rates for year ending 31 March 2007	72,175					
	Electricity Commission Levies for year ending 31 March 2007	173,717					
$NR_{2007} = \Sigma P_{i,2007} Q_i - K_{2007}$	Notional Revenue for the year ending 31 March 2007	62,147,772					

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#### **B3** Calculating R<sub>2010</sub>

Allowable Notional Revenue under CPI -X price path

Allow able Notional Revenue under CPI -X price path  Term Description (\$)								
X	X Factor	0%						
R2007	Maximum Revenue at 31 March 2007 that would not have caused a breach under the Initial Notice	62,147,772						
(1+DCPI2008)	Average change in Consumer Price Index over 2007	1.0238						
(1-X)	1-X Factor	1.00						
R2008	Allow able Notional Revenue under the CPI-X Price Path for the year ended 31 March 2008	63,624,492						
(1+DCPI2009)	Average change in Consumer Price Index over 2008	1.0396						
(1-X)	1-X Factor	1.00						
R2009	Allow able Notional Revenue under the CPI-X Price Path for the year ended 31 March 2009	66,143,350						
(1+DCPI2010)	Average change in Consumer Price Index over 2009	1.0212						
(1-X)	1-X Factor	1.00						
R2010	Allow able Notional Revenue under the CPI-X Price Path for the year ended 31 March 2010	67,542,716						
NR2010 / R2010	Expression must be less than or equal to 1 to avoid breaching 5(1)(a)	0.9999						
R2010 - NR2010	Value of Compliance or (Breach)	8,699						

For presentation purposes, the CPI Index has been shown to four decimal places; however for the calculation of  $R_{2010}$ , the full index (with no rounding) has been applied.

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#### **B4** Calculating $\Delta CPI_{2010}$

The Consumer Price Index (CPI) information has been obtained from information available from Statistics New Zealand on their website based on the All Groups Index, SE9A figure. The relevant quarterly figures were put into the appropriate formula to determine the average change in the CPI.

	ΔΟ	CPI <sub>2009</sub>						
Numerator Denominator								
CPI <sub>Q1</sub> , 2008	1044	CPI <sub>Q1</sub> , 2007	1010					
CPI <sub>Q2</sub> , 2008	1061	CPI <sub>Q2</sub> , 2007	1020					
CPI <sub>Q3</sub> , 2008	1077	CPI <sub>Q3</sub> , 2007	1025					
CPI <sub>Q4</sub> , 2008	1072	CPI <sub>Q4</sub> , 2007	1037					
Total	4254	Total	4092					
Δ CPI <sub>2009</sub>		3.96%						

Source: Statistics New Zealand All Groups SE9A Index (Note this index was rebased to June 2006 - Consumers Price Index Review information paper published on 28 September 2006. The 2006 September quarter CPI was the first index published using the new base)

Δ CPI <sub>2010</sub>								
Numerate	or		Denominator					
$CPI_{Q1}, 2009$	1075	$CPI_{Q1}$ , 2008	1044					
CPI <sub>Q2</sub> , 2009	1081	CPI <sub>Q2</sub> , 2008	1061					
CPI <sub>Q3</sub> , 2009	1095	CPI <sub>Q3</sub> , 2008	1077					
CPI <sub>Q4</sub> , 2009	1093	CPI <sub>Q4</sub> , 2008	1072					
Total	4344	Total	4254					
Δ CPI <sub>2010</sub>		2.12%						

Source: Statistics New Zealand All Groups SE9A Index (Note this index was rebased to June 2006 -Consumers Price Index Review information paper published on 28 September 2006. The 2006 September quarter CPI was the first index published using the new base)

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# Appendix C; price path threshold 5 (1)(b)

#### C1 **Determining NR<sub>max</sub>**

The maximum Notional Revenue during the Assessment Period from 1 April 2009 to 31 March 2010.

Maximum Notional Revenue for the period 1 April 2009 to 31 March 2010.  Px Q using 31 March 2010 Prices and 31 March 2007 Remapped Quantities if there has been no change in prices over this period, otherwise the prices which generate the maximum notional revenue over the period when using 31 March 2007 quantities										
Term	Term Description (\$)									
$\Sigma P_{Max} Q_{i,2007}$	Maximum Price Betw een 1 April 2009 and 31 March 2010 multiplied by 31 March 2007 Remapped Quantities	94,415,090								
	Transmission Charges for year ending 31 March 2010	26,462,199								
K 2010	Rates Charges for year ending 31 March 2010	201,577								
	Electricity Commission Levies for year ending 31 March 2010	217,297								
NR <sub>Max</sub>	Maximum Notional Revenue for 1 April 2009 to 31 March 2010	67,534,017								

#### C2 Comparing NR<sub>max</sub> with $R_{2009}$ and $R_{2010}$

The Notional Revenue during the period is not to exceed the maximum of the starting and ending Allowable Notional Revenue for the period. The maximum of  $R_{2009}$  and  $R_{2010}$ is  $R_{2010}$ , as demonstrated below.

Notional Reveue during the period is not to exceed the maximum of the Allow able Notional Revenue at the end of the assessment period and the Allow able Notional Revenue at the end of the previous assessment period								
Term	Description	(\$)						
NR <sub>Max</sub>	Maximum Notional Revenue for 1 April 2009 to 31 March 2010	67,534,017						
R 2009	Allow able Notional Revenue at 31 March 2009	66,143,350						
R 2010	Allow able Notional Revenue at 31 March 2010	67,542,716						
Max(R <sub>2009</sub> ,R <sub>2010</sub> )	Maximum of the Allow able Notional Revenue at 31 March 2009 and the Allow able Notional Revenue at 31 March 2010	67,542,716						
NR <sub>Max</sub> / Max(R <sub>2009</sub> ,R <sub>2010</sub> )	If expression is greater than 1, Clause 5 (1) (b) is breached	0.9999						
$Max(R_{2009},R_{2010}) - NR_{Max}$	Value of Compliance or (Breach)	8,699						

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# APPENDIX D; ACTUAL PRICES IMPLEMENTED 1 DECEMBER 2006 MULTIPLIED BY 2007 QUANTITIES

Actual Hawke's Bay rates for 1 December 2006, multiplied by 2007 quantities

		т	otal Tariff (∑F	Pi,2007Q20	07)								
				Pi,2007	Pi,2007	Pi,2007	Pi,2007	Q2007	Q2007	Q2007	Q2007	Q2007	∑Pi,2007Q2007
CONSUMER GROUP	LOAD GROUP	PATTERN CLASS	CODE	FIXED	CAPACITY	DEMAND TARIFF	VARIABLE TARIFF	Volumes	DEDICATED	DEMAND	CUSTOMER NUMBERS	DAYS	REVENUE
				(\$/day)	(\$/kVA capacity/day)	(\$/kW AMD/month)	(c/kWh)	(kWh)	(#)	(kW)	(#)	(#)	
		•									•		
Unmetered Unmetered	U01		E-H-U01-UNMT				0.0803	525,220	0	0		365	42,175
Unmetered Unmetered	U02 U08		E-H-U02-UNMT F-H-U08				0.0803	8,376,199	0	0	Č	365 365	672,609
Unmetered	U09		F-H-U09					0	0	0		365	0
Total								8,901,420	0	0			714,784
Temporary Bui	Ider Supp	oly (metered	l) IF-H-T1P					0				200	
TBS	T1P		E-H-T1P-24UC					0	0	Ö		365 365	0
TBS TBS	T3P T3P		F-H-T3P E-H-T3P-24UC					0	0	0		365 365	<u>C</u>
Total								0		0	C		C
Mass Market	f							-1					
Mass Market Mass Market	M11 M11	24UC	F-H-M11 E-H-M11-24UC	0.15			0.0777	0 1,430,154	0	0	11,473	365 365	628,142 111,123
Mass Market Mass Market	M11 M11	AICO CTRL	E-H-M11-AICO E-H-M11-CTRL				0.0635 0.0422	44,811,500 2,792,795	0	0	0	365 365	2,845,530 117,856
Mass Market Mass Market	M11 M11	NITE	E-H-M11-NITE E-H-M11-CTUD				0.0280 0.0988	1,191,795 178,769	0	0	0	365 365	33,370 17,662
Mass Market	M11	CTUN	E-H-M11-CTUN	0.55			0.0143	59,590	0	0	Č	365	852
Mass Market Mass Market	M12 M12	24UC	F-H-M12 E-H-M12-24UC	0.55			0.0595	0 11,154,424	0	0		365 365	8,958,237 663,688
Mass Market Mass Market	M12 M12	AICO CTRL	E-H-M12-AICO E-H-M12-CTRL	$\perp$			0.0453 0.0239	349,964,669 5,270,337	0	0		365 365	15,853,399 125,961
Mass Market Mass Market	M12 M12	NITE CTUD	E-H-M12-NITE E-H-M12-CTUD				0.0096 0.0756	9,307,748 1,396,162	0	0	- 0	365 365	89,354 105,550
Mass Market	M12	CTUN	E-H-M12-CTUN				0.0110	465,387	0	0		365	5,119
Total								428,023,329	0	0	56,097		29,555,845
Small Commercial	S20		F-H-S20	2.66				0	0	0	1,697		1,646,937
Small Commercial Small Commercial	S20	24UC CTRL	E-H-S20-24UC E-H-S20-CTRL				0.04 0.0184	75,487,289 716,544	0	0	C		2,933,359 13,184
Small Commercial	S20	NITE	E-H-S20-NITE				0.0102	778,284	0	0		365	7,916
Small Commercial Small Commercial	S20	CTUD	E-H-S20-CTUD E-H-S20-CTUN				0.0495 0.0072	1,778,604 597,881	0	0		365 365	87,973 4,299
Small Commercial Small Commercial	S20 S20	SOPD WOPD	E-H-S20-SOPD E-H-S20-WOPD	+		1.10				8,785 6,370		365 365	9,631 6,983
Small Commercial Small Commercial	S20	DMND	E-H-S20-DMND F-H-S22	5.56		4.99		0	0	14,733	175	365 365	73,484 354,826
Small Commercial	S22	AICO	E-H-S22-24UC	5.56			0.0284	19,243,083	0	0	C	365	546,542
Small Commercial Small Commercial	S22	CTRL NITE	E-H-S22-CTRL E-H-S22-NITE				0.0182 0.0102	410,890 141,561	0	0	C	365 365	7,482 1,444
Small Commercial Small Commercial		CTUD	E-H-S22-CTUD E-H-S22-CTUN	+ -			0.0518 0.0076	408,169 146,635	0	0		365 365	21,159 1,113
Small Commercial Small Commercial		SOPD WOPD	E-H-S22-SOPD E-H-S22-WOPD			2.75 2.75				33,337 26,812		365 365	91,627 73,692
Small Commercial	S22	DMND	E-H-S22-DMND			4.36		0	0	84,632		365	369,405
Small Commercial Small Commercial	S24	AICO	F-H-S24 E-H-S24-24UC	3.34			0.0386	423,047	0	0	88	365 365	107,237 16,315
Small Commercial Small Commercial	S24 S24	CTRL NITE	E-H-S24-CTRL E-H-S24-NITE				0.0181	79,359 0	0	0		365 365	1,436
Small Commercial Small Commercial	S24	CTUD	E-H-S24-CTUD E-H-S24-CTUN					0	0	0		365 365	0
Small Commercial	S24	SOPD	E-H-S24-SOPD			4.68		Ů		66,967		365	313,556
Small Commercial Small Commercial	S24	WOPD DMND	E-H-S24-WOPD E-H-S24-DMND			4.68 3.91		0	0	52,138 221,126		365 365	244,121 863,887
Small Commercial Small Commercial	S26 S26	AICO	F-H-S26 E-H-S26-24UC	2.98				0	0	0	21	365 365	22,841
Small Commercial Small Commercial	S26	CTRL NITE	E-H-S26-CTRL E-H-S26-NITE					0	0	0	0	365 365	0
Small Commercial	S26	CTUD	E-H-S26-CTUD					0	0	Ö		365	0
Small Commercial Small Commercial	S26	SOPD	E-H-S26-CTUN E-H-S26-SOPD			4.45		0	0	36,677		365 365	163,246
Small Commercial Small Commercial		WOPD DMND	E-H-S26-WOPD E-H-S26-DMND	+ +		4.45 3.98		0	0				123,338 445,023
Total								100,211,345	0	690,974	1,981		8,552,057
Large Commer													
Commercial Commercial	L40 L40	24UC	F-H-L40 E-H-L40-24UC	9.69			0.0386	0 1,101,459	0	0	192	365 365	678,872 42,528
Commercial Commercial	L40 L40	SOPD WOPD	E-H-L40-SOPD E-H-L40-WOPD			1.66				251,017 182,106		365 365	417,568 302,934
Commercial Commercial	L40 L40	DMND A020	E-H-L40-DMND F-H-L40-A020	$+\Box$	17.58	5.00	$\vdash$	0	0 63	419,492 0		365 365	2,097,459 404,268
Commercial	L40 L40	A030 A050	F-H-L40-A030 F-H-L40-A050		29.41 44.18			0	26 40	0		365 365	279,099 645,077
Commercial	L40	A075	F-H-L40-A075		68.78			0	15	0		365	376,590
Commercial Commercial	L40 L40	A100 RGMU	F-H-L40-A100 F-H-L40-RGMU		88.04			0	8	0	0	365 365	257,084 0
Commercial Commercial	L40 L40	ABSW	F-H-L40-ABSW F-H-L40-OLSW	+				0	0	0	0	365 365	0
Commercial Commercial	L40 L40	FSSW	F-H-L40-CRBK					0	0	0		365	0
Total	1	persons	. II E-G-GRBR					1,101,459	152			, 303	5,501,480
Industrial													
Industrial Industrial	5200 4200	TAIC	F-H-I60 F-H-I60	738 595		9	0.0082 0.0082	22,051,320 20,615,947		5,163 4,131	1	365 365	498,712 425,233
Industrial	1400	TAIC	F-H-I60	310						2.178		365	175.267
Industrial Industrial	2200 2700	TAIC	F-H-I60 F-H-I60	381		9	0.0082	5,103,642 6,088,715		2,685	1	365	214,128
Industrial Industrial	3400 1800	TAIC	F-H-I60 F-H-I60	481 253		9	0.0082	11,900,911 11,645,238		3,400 1,700	1	365 365	305,052 203,827
Industrial Industrial	1200 1100	TAIC	F-H-I60 F-H-I60	167 153		9	0.0082	5,345,566 6,327,625		1,110 1,063		365 365	115,254 117,693
Industrial	2600	TAIC	F-H-I60	367		g	0.0082	10,270,553		2,543		365	242,011
Industrial Industrial	4000 1300	TAIC	F-H-I60 F-H-I60	567 181		9	0.0082	4,884,458 8,019,987		3,900 1,200	1	365 365	283,218 143,310
Industrial Industrial	2900 3100	TAIC	F-H-I60 F-H-I60	410 438		9		8,366,137 10,853,761		2,809 3,047	1	365 365	244,445 277,534
Industrial Industrial	1200 1400	TAIC	F-H-I60 F-H-I60										C
Industrial		TAIC						131,473,860	0	34,929			3,245,685
Total											13		

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# Actual Rotorua/Taupo rates for 1 December 2006 multiplied by 2007 quantities

Unmetered Unmetered Unmetered Unmetered Unmetered Total  Temporary Builder STES TES TES TES TES TES TES TOTAL  Mass Market - Rotoru Mass Market - Rotoru Mass Market Mass Mark	U01 U02 U08 U09 U09 T1P T1P T3P T3P T3P	PATTERN CLASS	E-R-U01-UNMT E-R-U02-UNMT F-R-U09	FIXED TARIFF (\$/day)  \$ 2 2700 \$ 6.0400	P 6,2007 CAPACITY TARIFF (\$5/kVA capacity/day)	P 1,2997 DEMAND TARIFF (\$/k\W AMD/month)	P (,2007 VARIABLE TARIFF (c/kWh) \$ 0.0804 \$ 0.0804	Q 2007 CONSUMPTION (KWh)	Q 2907 DEDICATED ASSET	Q <sub>2007</sub> DEMAND (kW)	Q 2007 CUSTOMER NUMBERS (#)	Q 2007 DAYS (#)	∑P i,2007 Q 2007 REVENUE  \$ 23,80
Unmetered - Rotorua Inmetered Inmete	8.8 Taupo 10.001 10.002 10.003	CLASS	E-R-U01-UNMT E-R-U02-UNMT F-R-U08 F-R-U09	\$ 2,2700	TARIFF (\$/kVA	TARIFF (\$/kW	VARIABLE TARIFF (c/kWh)	(kWh) 296,038	ASSET		NUMBERS	(#) 365	
Ulmatered Julmatered J	a & Taupo Lui		E-R-U02-UNMT F-R-U08 F-R-U09	(\$/day) \$ 2,2700	(\$/kVA	(\$/kW	(c/kWh) \$ 0.0804	296,038		(kW)		365	\$ 23,80
Immetered Immedia	U01 U02 U08 U09 U09 T1P T1P T3P T3P T3P	ered) - Roto	E-R-U02-UNMT F-R-U08 F-R-U09	\$ 2.2700	capacity/day)	AMU/month)	\$ 0.0804	296,038	17	(***)	.,	365	\$ 23,80
Intensered	U01 U02 U08 U09 U09 T1P T1P T3P T3P T3P	ered) - Roto	E-R-U02-UNMT F-R-U08 F-R-U09	\$ 2.2700 \$ 6.0400									\$ 23,80
Jumetered Jumetered Jumetered Jumetered Jumetered Jumetered Jumetered Total  Temporary Builder Strike Strik	U02 U08 U09 U09 T1P T1P T3P T3P T3P M11 M11 M11	ered) - Roto	E-R-U02-UNMT F-R-U08 F-R-U09	\$ 2.2700 \$ 6.0400									\$ 23,80
Unmetered Unmetered Total Temporary Builder St TES	U08 U09 T1P T1P T3P T3P M11 M11 M11	ered) - Roto	F-R-U09	\$ 2.2700 \$ 6.0400									
Temporary Builder Stress TES	supply (met T1P T1P T3P T3P T3P Ja only M11 M11 M11	ered) - Roto		\$ 6.0400				4,207,040			-	365 365	\$ .
Temporary Builder STES TES TES TES TES TES TES TES TES TES	TIP	ered) - Roto	rua & Taupo					4,503,078			-	365	\$ . \$ 362,04
TBS TBS TBS TBS TBS TBS TBS TFAT TBS TFAT Mass Market - Rotoru Mass Market Mas	TIP	ered) - Roto	rua & Tauno	_				4,503,078			-		3 362,04
TBS	T1P T3P T3P Ja only M11 M11												
Mass Market - Rotoru Mass Market Mass Mark	T3P T3P Ja only M11 M11		F-R-T1P E-R-T1P-24UC	\$ 56,0000			\$ 0.0762				-	365	\$ - \$ .
Mass Market - Rotoru Mass Market Mass Mark	ua only M11 M11 M11		F-R-T3P	\$ 1.7500				-				365 365 365	\$ .
Mass Market - Rotoru Mass Market Mass Mark	M11 M11 M11		E-R-T3P-24UC				\$ 0.0597					365	\$ -
Mass Market Mass M	M11 M11 M11							-			-		š .
Mass Market Mass M	M11 M11												
Mass Market Mass Market Mass Market Mass Market Mass Market Mass Market Total  Mass Market  Mass	M11	AICO	F-R-M11 E-R-M11-AJCO	\$ 0.1500			\$ 0.0632	68,119,544			13,854	365 365	\$ 758,500 \$ 4,305,150
Mass Market Mass Market Mass Market Mass Market Total  Mass Market		CTRL	E-R-M11-CTRL				\$ 0.0446	2,558,168				365	\$ 114,09
Mass Market Mass Market Mass Market Total  Mass Market	M11 M12	NITE	E-R-M11-NITE F-R-M12	\$ 0.5600			\$ 0.0446	2,029,489			12,994	365	\$ 90,51
Mass Market Mass Market - Taupo Mass Market - Taupo Mass Market Ma	M12	AICO	E-R-M12-AICO	\$ 0.5600			\$ 0.0445	110,750,065			12,994	365 365	\$ 2,655,87 \$ 4,928,37
Mass Market - Taupo Mass Market Mass M	M12	CTRL	E-R-M12-CTRL				\$ 0.0269	5,813,633				365	\$ 156,38
Mass Market - Taupo Mass Market Total Small Commercial - Small Commercial	M12	NIIE	E-R-M12-NITE				\$ 0.0269	3,664,154 192,935,053			26,848	365	\$ 98,58 13,107,47
Mass Market Mass Market Mark										-	20,010		,
Mass Market Ma			F-T-M11	\$ 0.1500							0.000	365	s 000.00
Mass Market Fotal Fotal Germercial - R Small Commercial - R Small Commercial	M11 M11	AICO	E-T-M11-AICO	\$ 0.1500			\$ 0.0628	26,190,359			6,520	365	\$ 1,644,75
Mass Market Mass Market Mass Market Mass Market Total  Small Commercial - R Small Commercial	M11	CTRL	E-T-M11-CTRL				\$ 0.0443	4,680,547				365	\$ 207,34
Mass Market Mass Market Mass Market Fotal  Small Commercial - R small Commercial	M11 M12	NITE	E-T-M11-NITE F-T-M12	\$ 0.5600			\$ 0.0443	1,919,726			6,365	365 365	\$ 1,301,05
Moss Market Total  Small Commercial - F Small Commercial	M12 M12	AICO	E-T-M12-AJCO E-T-M12-CTRL				\$ 0.0441 \$ 0.0267	55,734,216 8,210,168				365 365	\$ 2,457,87
Small Commercial - R small Commercial	M12	CTRL NITE	E-T-M12-NITE	+			\$ 0.0267	3,890,301				365	
Small Commercial								100,625,316			12,885		6,376,13
Small Commercial	Datamia 9 7	Farina.											
Small Commercial		aupo	F-R-S20	\$ 1.7500							3,684	365	\$ 2,353,15
Small Commercial	S20 S20	24UC	F-R-S20 E-R-S20-24UC				\$ 0.0470	95,281,219				365 365	\$ 2,353,15 \$ 4,478,21
Small Commercial	S20 S20	NITE	E-R-S20-CTRL E-R-S20-NITE	+			\$ 0.0222 \$ 0.0123	4,414,594 6,531,375				365 365	\$ 98,00 \$ 80,33
Small Commercial Small Commercial Small Commercial Small Commercial	S20	CTUD	E-R-S20-CTUD				\$ 0.0597					365	\$ -
Small Commercial Small Commercial Small Commercial Small Commercial	S20 S20	CTUN SAAD	E-R-S20-CTUN E-R-S20-SAAD				\$ 0.0087 \$ 0.0106	2,142,907				365 365	\$ \$ 22,719
Small Commercial Small Commercial	S20	WAAD	E-R-S20-WAAD				\$ 0.0125	1,458,731				365	\$ 18,23
Small Commercial	S20 S20	DMND	E-R-S20-AAAN E-R-S20-DMND			\$ 5.3000	\$ 0.0050	1,268,300		12,175		365 365	
	S22		F-R-S22	\$ 11.8800						12,110	157	365	\$ 680,78
Small Commercial  Small Commercial	S22 S22	AICO CTRL	E-R-S22-24UC E-R-S22-CTRL	+			\$ 0.0449 \$ 0.0212	12,125,252 1,253,753				365 365	\$ 544,42 \$ 26,58
	S22	NITE	E-R-S22-NITE				\$ 0.0118	565,606				365	\$ 6,67
	S22 S22	CTUD	E-R-S22-CTUD E-R-S22-CTUN				\$ 0.0572 \$ 0.0083					365 365	
Small Commercial	S22 S22	SAAD	E-R-S22-SAAD E-R-S22-WAAD				\$ 0.0085 \$ 0.0100	6,977,933 4,667,735				365 365	\$ 59,312 \$ 46,67
	S22 S22	WAAD AAAN	E-R-S22-WAAD E-R-S22-AAAN				\$ 0.0100 \$ 0.0040	4,667,735 4,102,015				365 365	\$ 46,677 \$ 16,400
Small Commercial	S22	DMND	E-R-S22-DMND	_		\$ 5.3000	3 0.0040	4,102,013		39,369		365	\$ 208,65
	S24 S24	AICO	F-R-S24 E-R-S24-24UC	\$ 23.7600			\$ 0.0444	7,242,935			46	365 365	\$ 398,93
Small Commercial	S24	CTRL	E-R-S24-CTRL				\$ 0.0444 \$ 0.0210	160,535				365	\$ 321,58 \$ 3,37
	S24	NITE	E-R-S24-NITE				\$ 0.0116					365	\$ -
Small Commercial	S24 S24	CTUD	E-R-S24-CTUD E-R-S24-CTUN				\$ 0.0665 \$ 0.0082	-				365 365	\$ -
Small Commercial	S24	SAAD WAAD	E-R-S24-SAAD				\$ 0.0080	4,158,551				365	\$ 33,26
Small Commercial Small Commercial	S24 S24	AAAN	E-R-S24-WAAD E-R-S24-AAAN	+			\$ 0.0094 \$ 0.0037	3,194,787 2,597,421					\$ 30,03 \$ 9,610
Small Commercial	S24 S26	DMND	E-R-S24-DMND F-R-S26	\$ 29.7000		\$ 5.3000				24,877	18.	365 366	\$ 131,84
Small Commercial	S26	AICO	E-R-S26-24UC	4 20.7000			\$ 0.0444	2,910,367			- 10	365	\$ 196,12 \$ 129,22
Small Commercial	S26	CTRL	E-R-S26-CTRL				\$ 0.0210	-				365	\$ .
Small Commercial Small Commercial	S26 S26	CTUD	E-R-S26-CTUD				\$ 0.0116 \$ 0.0565					365 365	5 -
Small Commercial	S26 S26	CTUN SAAD	E-R-S26-CTUN E-R-S26-SAAD				\$ 0.0082 \$ 0.0080	7,478,889				365 365	£ 60.03
Small Commercial Small Commercial	S26	WAAD	E-R-S26-WAAD				\$ 0.0094	5,604,232				365	\$ 52.68
Small Commercial	S26 S26	AAAN	E-R-S26-AAAN	1	-	4	\$ 0.0037	4,623,814		44.000		365	\$ 17,10
Small Commercial  Fotal	S26	DMND	E-R-S26-DMND	_	-	\$ 5.3000		178,760,950		44,267 120,688	3,905	365	\$ 234,61 10,328,27
								.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					10,000,000
Large Commercial - F		Taupo						Y	3				
	L40 L40	24UC	F-R-L40 E-R-L40-24UC	\$ 17.8600			\$ 0.0482				121	365 365	\$ 788,78 \$ -
Commercial	L40	SAAD	E-R-L4B-SAAD				\$ 0.0119	47,440,547				365	\$ 564,54
	L40 L40	WAAD AAAN	E-R-L4B-WAAD E-R-L4B-AAAN	_			\$ 0.0140 \$ 0.0056	35,200,224 29,211,400				365 365	\$ 492,80 \$ 163,58
Commercial	L40	DMND	E-R-L40-DMND			\$ 5.3000	2.0000	22,211,400		286,675		365	\$ 1,519,37
	L40 L40	A020 A030	F-R-L40-T020 F-R-L40-T030	+	\$ 5.7500 \$ 6.5700							365 365	
Commercial	L40	A050	F-R-L40-T050		\$ 9.0400							365	\$ .
Commercial	L40	A075 A100	F-R-L40-T075 F-R-L40-T100		\$ 10.6800 \$ 11.9200							365 365	5 -
Commercial		RGMU	F-R-L40-RGMU		\$ 6.5700						-	365	\$ -
Commercial	L40 L40	ABSW	F-R-L40-ABSW		\$ 1.0300 \$ 2.4700							365	5 -
	L40 L40 L40	TOT COST				_						365 365	\$ ·
Commercial	L40 L40 L40 L40	OLSW FSSW	F-R-L40-OLSW F-R-L40-FSSW		1 J. (25, E)								
Total	L40 L40 L40	OLSW FSSW CRBK	F-R-L40-CLSW F-R-L40-FSSW F-R-L40-CRBIA		\$ 3.2900 \$ 14.3800							365	\$ .
Industrial - Rotorua 8	L40 L40 L40 L40 L40	FSSW	F-R-L40-FSSW		\$ 14.3800			111.852,172		286,675	121	365	\$ .
ndustrial	L40 L40 L40 L40 L40 L40 L40	FSSW	F-R-L40-FSSW		\$ 14.3800			111,852,172	-	286,675	121	365	\$ .
ndustrial Fotal	L40 L40 L40 L40 L40 L40 L40	FSSW	F-R-L40-FSSW F-R-L40-CRBIQ	\$ 4,780	\$ 14.3800			111.852,172 104,296,680	-	286,675	1	365 365	\$ . \$ 3,529,09
	L40 L40 L40 L40 L40 L40 L40	FSSW	F-R-L40-FSSW F-R-L40-CRBK	\$ 4,780 \$ 761.5800	\$ 14.3800		0	104,296,680	)-	286,675	1 1	365	\$ 3,529,09 1,744,70 295,27
All groups Grand total	L40 L40 L40 L40 L40 L40 L40	FSSW	F-R-L40-FSSW F-R-L40-CRBIQ	\$ 4,780° \$ 781.5800	\$ 14.3800		0			286,675	1	365 365	\$ \$ 3,529,09

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# **Threshold Compliance Statement**



# **Summary**

The following table summarises the  $P \times Q$  schedules from above.

Region	Σ	Σ Actual P <sub>i,2007</sub> Q <sub>2007</sub>						
Hawke's Bay	\$	47,569,852						
Rotorua/Taupo	\$	35,733,003						
Total	\$	83,302,855						

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# **Threshold Compliance Statement**



# APPENDIX E; ACTUAL PRICES FOR 31 MARCH 2010 MULTIPLIED BY REMAPPED 2007 **QUANTITIES**

Actual Hawke's Bay rates for 31 March 2010, multiplied by 2007 remapped quantities

	LOAD	PATTERN		Pi,2010 FIXED	Pi,2010 CAPACITY	PI,2010 DEM AND	Pi,2010 VARIABLE		Q2007 DEDICATED	Q2007	Q2007 CUSTOMER	Q2007	∑Pi,2010Q2007
CONSUMER GROUP	GROUP	CLASS	CODE	TARIFF	TARIFF	TARIFF	TARIFF	Volumes	ASSET	DEMAND	NUM BERS	DAYS	REVENUE
				(\$/day)	(\$/kVA capacity/day)	(\$/kW AMD/month)	(c/kWh)	(kWh)	(#)	(kW)	(#)	(#)	1
Unmetered													
Unmetered	U01		E-H-U01-UNMT				0.0909	525,220				365	47,74
Unmetered Unmetered	U02 U08		E-H-U02-UNMT F-H-U08				0.0909	8,376,199				365 365	761,39
Unmetered Total	U09							8,901,420				365	809,13
Temporary Builder S	upply (met	ered)											
TBS TBS	T1P T1P		F-H-T1P E-H-T1P-24UC									365 365	
TBS TBS	T3P T3P		F-H-T3P E-H-T3P-24UC									365 365	
Total													
Mass Market													
Mass Market Mass Market	M11 M11	24UC	F-H-M11 E-H-M11-24UC	0.15			0.0916	1,430,154			11,473	365 365	628,147 131,002
Mass Market Mass Market	M11 M11	AICO CTRL	E-H-M11-AICO E-H-M11-CTRL				0.0791 0.0498	44,811,500 2,792,795				365 365	3,544,590 139,08
Mass Market Mass Market	M11 M11	NITE CTUD	E-H-M11-NITE E-H-M11-CTUD				0.0331 0.1166	1,191,795 178,769				365 365	39,448 20,844
Mass Market Mass Market	M11 M12	CTUN	E-H-M11-CTUN F-H-M12	0.683			0.0169	59,590			44,624	365 365	1,007
Mass Market Mass Market	M12 M12	24UC AICO	E-H-M12-24UC E-H-M12-AICO				0.0673 0.0552	11,154,424 349,964,669				365 365	750,693 19,318,050
Mass Market Mass Market	M12 M12	CTRL NITE	E-H-M12-CTRL E-H-M12-NITE				0.0270 0.0109	5,270,337 9,307,748				365 365	142,299 101,454
Mass Market Mass Market	M12 M12	CTUD	E-H-M12-CTUD				0.0857 0.0124	1,396,162 465,387				365 365	119,651 5,771
Total			2-CTOIN				0.0124	428,023,329			56,097	305	36,069,835
Small Commercial													
Small Commercial Small Commercial	S20 S20	24UC	F-H-S20 E-H-S20-24UC	1.95			0.0560	75,487,289			1,697	365	1,207,840 4,227,288
Small Commercial Small Commercial	S20 S20	CTRL NITE	E-H-S20-CTRL E-H-S20-NITE	<u> </u>			0.0265 0.0147	716,544 778,284				365 365	18,988 11,441
Small Commercial Small Commercial	S20 S20	CTUD CTUN	E-H-S20-CTUD E-H-S20-CTUN				0.0713 0.0103	1,778,604 597,881				365 365	126,814 6,158
Small Commercial Small Commercial	S20 S20	SOPD	E-H-S20-SOPD E-H-S20-WOPD			3.42 10.97				8,785 6,370		365 365	30,046 69,881
Small Commercial Small Commercial	S20 S22	DMND	E-H-S20-DMND F-H-S22	9.73		3.00				14,733	175	365 365	44,199 621,504
Small Commercial Small Commercial	S22 S22	24UC CTRL	E-H-S22-24UC E-H-S22-CTRL	5.70			0.0531 0.0251	19,243,083 410,890			175	365 365	1,021,808
Small Commercial	S22	NITE	E-H-S22-NITE				0.0139	141,561				365	1,968
Small Commercial Small Commercial	S22 S22	CTUD	E-H-S22-CTUD E-H-S22-CTUN				0.0676 0.0098	408,169 146,635				365 365	27,592 1,437
Small Commercial Small Commercial	S22 S22	SOPD WOPD	E-H-S22-SOPD E-H-S22-WOPD			3.31 10.62				33,337 26,812		365 365	110,346 284,743
Small Commercial Small Commercial	S22 S24	DMND	E-H-S22-DMND F-H-S24	19.46		2.79				84,632	88	365 365	236,124 625,055
Small Commercial Small Commercial	S24 S24	24UC CTRL	E-H-S24-24UC E-H-S24-CTRL				0.0502 0.0237	423,047 79,359				365 365	21,237 1,881
Small Commercial Small Commercial	S24 S24	NITE CTUD	E-H-S24-NITE E-H-S24-CTUD				0.0131					365 365	
Small Commercial Small Commercial	S24 S24	CTUN SOPD	E-H-S24-CTUN E-H-S24-SOPD			3.20	0.0093			66,967		365 365	214,295
Small Commercial Small Commercial	S24 S24	WOPD DMND	E-H-S24-WOPD E-H-S24-DMND			10.26 2.58				52,138 221,126		365 365	534,931 570,506
Small Commercial Small Commercial	S26 S26	24UC	F-H-S26 E-H-S26-24UC	29.20			4,5800				21	365 365	223,818
Small Commercial Small Commercial	S26 S26	CTRL NITE	E-H-S26-CTRL E-H-S26-NITE				2.1600 1.2000					365 365	
Small Commercial	S26	CTUD	E-H-S26-CTUD				5.8300					365	
Small Commercial Small Commercial	S26 S26	CTUN SOPD	E-H-S26-CTUN E-H-S26-SOPD			3.20	0.8400			36,677		365 365	117,365
Small Commercial Small Commercial	S26 S26	WOPD DMND	E-H-S26-WOPD E-H-S26-DMND			10.26 2.58				27,710 111,686		365 365	284,307 288,150
Total								100,211,345	0	690,974	1,981		10,940,036
Large Commercial Commercial	L40		F-H-L40	15.09							192.00	365	1,057,507
Commercial	L40	24UC SOPD	E-H-L40-24UC	15.09		2 22	0.0426	1,101,459		251.017	192.00	365	46,922
Commercial Commercial	L40 L40	WOPD	E-H-L40-SOPD E-H-L40-WOPD			2.23 7.45				251,017 182,106		365 365	559,768 1,356,689
Commercial Commercial	L40 L40	DMND A020	E-H-L40-DMND F-H-L40-A020			1.86				419,492		365 365	780,255
Commercial Commercial	L40 L40	A030 A050	F-H-L40-A030 F-H-L40-A050									365 365	
Commercial Commercial	L40 L40	A075 A100	F-H-L40-A075 F-H-L40-A100									365 365	
Commercial Commercial	L40 L40	RGMU ABSW	F-H-L40-RGMU F-H-L40-ABSW									365 365	
Commercial Commercial	L40 L40	OLSW FSSW	F-H-L40-OLSW F-H-L40-FSSW									365 365	
Commercial Total	L40	CRBK	F-H-L40-CRBK					1,101,459	O	852,615	192	365	3,801,141
Industrial								.,101,400		302,010	192		5,551,14
Industrial		TAIC	F-H-I60	1,171.25							1	365	427,506
Industrial Industrial		TAIC TAIC	F-H-160 F-H-160	1,101.61 801.20							1	365 365	402,088 292,438
Industrial Industrial		TAIC TAIC	F-H-160 F-H-160	784.11 564.46							1	365 365	286,200 206,028
Industrial Industrial	<u> </u>	TAIC TAIC	F-H-I60 F-H-I60	687.10 594.71							1	365 365	250,792 217,069
Industrial Industrial		TAIC TAIC	F-H-I60 F-H-I60	544.17 540.56							1 1	365 365	198,622 197,304
Industrial Industrial		TAIC	F-H-I60 F-H-I60	533.96 345.24							1 1	365 365	194,895 126,013
Industrial Industrial	1	TAIC	F-H-I60 F-H-I60	298.33 276.08							1	365 365	108,89 100,76
Industrial Industrial		TAIC	F-H-160 F-H-160	270.08							'	305	100,76
Industrial		TAIC	F-H-I60										
Industrial Total		TAIC	F-H-160								13		3,008,618
Grand total	1							538,237,553		1,543,589	58,283		54,628,766

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# Actual Rotorua/Taupo rates for 31 March 2010, multiplied by 2007 remapped quantities

				_	Pi,2010	Total Tariff (∑	Pi,2010 Q 2007) Q07	at P1	0 Pi,2010	Q2007	Q2007	Q2007	Q2007	Q2007	∑Pi,2010Q2007
CONSUMER GROUP	LOAD GROUP	PATTERN CLASS	CODE	+	FIXED TARIFF	CAPACITY	DEMAND	V	ARIABLE	CONSUMPTION	DEDICATED	DEM AND	CUSTOMER	DAYS	REVENUE
CONSUMER GROUP	LOAD GROUP	PATTERNCLASS	CODE	+	FIXED TARIFF	TARIFF (\$/kVA	TARIFF (\$/kW		TARIFF	CONSUMPTION	ASSET	DEWIAND	NUM BERS	DATS	REVENUE
					(\$/day)	capacity/day)	AMD/month)	(	(c/kWh)	(kWh)	(#)	(kW)	(#)	(#)	
								_							
Unmetered - Rotor Unmetered	U01		E-R-U01-UNMT	+				\$	0.0993	296,038				365	29,397
Unmetered	U02		E-R-U02-UNMT	1				\$	0.0993	4,207,040				365	417,759
	U08 U09		F-R-U08 F-R-U09	+										365 365	
Total										4,503,078					447,156
								_							
Temporary Builder TBS	T1P	- Rotorua & Taupo	F-R-T1P	+	\$ 0.69									365	0
TBS	T1P		E-R-T1P-24UC	1				\$	0.0833					365	C
	T3P T3P		F-R-T3P E-R-T3P-24UC	+	\$ 1.90			\$	0.0636					365 365	0
Total	135		E-R-13F-240C	+				ą.	0.0030					303	0
Mass Market - Rote Mass Market	orua & Taupo M11		F-R-M11	7	\$ 0.15								20,374	365	1,115,477
	M11	AICO	E-R-M11-AICO	+	\$ 0.15			\$	0.0801	85,372,515			20,374	365	6,838,338
	M11	CTRL	E-R-M11-CTRL	1				\$	0.0580	7,005,232				365	406,303
Mass Market Mass Market	M11 M11	NITE 24UC	E-R-M11-NITE E-R-M11-24UC	+				\$	0.0376 0.0896	2,839,225 9,616,007				365	106,755 861,594
Mass Market	M11	CTUD	E-R-M11-CTUD	1				\$	0.1146	423,085					48,486
	M11 M12	CTUN	E-R-M11-CTUN F-R-M12	+	\$ 0.6875			\$	0.0148	241,768			10.250	265	3,578
Mass Market	M12	AICO	E-R-M12-AICO	#	\$ 0.6875			\$	0.0560	- 128,893,185			19,359	365 365	4,857,899 7,218,018
Mass Market	M12	CTRL	E-R-M12-CTRL	#				\$	0.0348	15,099,147				365	525,450
	M12 M12	NITE 24UC	E-R-M12-NITE E-R-M12-24UC	+				\$	0.0153 0.0651	5,991,493 34,264,269		<b> </b>		365	91,670 2,230,604
Mass Market	M12	CTUD	E-R-M12-CTUD	╛				\$	0.0833	2,474,793					206,150
	M12	CTUN	E-R-M12-CTUN	Į				\$	0.0108	1,339,649					14,468
Total				+						293,560,368			39,733		24,524,791
Small Commercial	- Rotorua & Taupo														
Small Commercial	S20		F-R-S20	Ŧ	\$ 1.90				0.0500	05.004.040			3,684	365	2,554,854
	S20 S20	24UC CTRL	E-R-S20-24UC E-R-S20-CTRL	+				\$	0.0500 0.0236	95,281,219 4,414,594				365 365	4,764,061 104,184
Small Commercial	S20	NITE	E-R-S20-NITE	1				\$	0.0131	6,531,375				365	85,561
Small Commercial Small Commercial	S20 S20	CTUD CTUN	E-R-S20-CTUD E-R-S20-CTUN	+				\$	0.0636					365 365	0
Small Commercial	S20	SOPD	E-R-S20-SOPD	1			\$ 3.26	9	0.0032			9,182		303	29,932
Small Commercial	S20	WOPD	E-R-S20-WOPD	7			\$ 9.61					7,293			70,088
Small Commercial Small Commercial	S20 S22	DMND	E-R-S20-DMND F-R-S22	+	\$ 9.49		\$ 2.71					12,175	157	365	32,994 543,824
Small Commercial	S22	24UC	E-R-S22-24UC	1				\$	0.0484	12,125,252				365	586,862
Small Commercial Small Commercial	S22 S22	NITE CTRL	E-R-S22-CTRL E-R-S22-NITE	+				\$	0.0228	1,253,753 565,606				365 365	28,586 7,183
Small Commercial	S22	CTUD	E-R-S22-CTUD	$^{+}$				\$	0.0127	363,606				365	7,163
Small Commercial	S22	CTUN	E-R-S22-CTUN					\$	0.0089					365	C
Small Commercial Small Commercial	S22 S22	SOPD WOPD	E-R-S22-SOPD E-R-S22-WOPD	+			\$ 3.20 \$ 9.45					26,003 19,661			83,208 185,797
Small Commercial	S22	DMND	E-R-S22-DMND				\$ 2.58					39,369			101,573
	S24 S24	24UC	F-R-S24 E-R-S24-24UC	4	\$ 18.99			6	0.0467	7,242,935			46	365 365	318,842 338,245
	S24	CTRL	E-R-S24-CTRL	+				\$	0.0220	160,535				365	3,532
Small Commercial	S24	NITE	E-R-S24-NITE					\$	0.0122					365	C
Small Commercial Small Commercial	S24 S24	CTUD CTUN	E-R-S24-CTUD E-R-S24-CTUN	+				\$	0.0594					365 365	0
Small Commercial	S24	SOPD	E-R-S24-SOPD				\$ 3.14	•	0.0000			20,913		000	65,667
Small Commercial Small Commercial	S24 S24	WOPD DMND	E-R-S24-WOPD E-R-S24-DMND	4			\$ 9.27 \$ 2.45					15,329 24,877			142,096 60,948
Small Commercial	S26	DIVIND	F-R-S26	+	\$ 28.48		\$ 2.45					24,877	18	365	187,114
Small Commercial	S26	24UC	E-R-S26-24UC	$\exists$				\$	0.0467	2,910,367					135,914
Small Commercial Small Commercial	S26 S26	NITE CTRL	E-R-S26-CTRL E-R-S26-NITE	+				\$	0.0220 0.0122			<b> </b>			0
Small Commercial	S26	CTUD	E-R-S26-CTUD	+				\$	0.0122						
Small Commercial	S26	CTUN	E-R-S26-CTUN	Ŧ				\$	0.0086			0= 00-			0
	S26 S26	SOPD WOPD	E-R-S26-SOPD E-R-S26-WOPD	+			\$ 3.14 \$ 9.27	$\vdash$				25,867 18,826			81,223 174,517
Small Commercial	S26	DMND	E-R-S26-DMND	⇉			\$ 2.45					44,267		365	108,455
Total				Ţ						130,485,636		263,762	3,905		10,795,260
Large Commercial	- Rotorua & Tauno	)		+				_							
Commercial	L40		F-R-L40	#	\$ 17.30								121	365	764,055
Commercial Commercial	L40 L40	24UC SOPD	E-R-L40-24UC F-R-I 40-SOPD	Ţ			\$ 2.34	\$	0.0519			178,379		365 365	417,408
	L40	WOPD	E-R-L40-WOPD	+			\$ 2.34					178,379		365	1,066,918
Commercial	L40	DMND	E-R-L40-DMND	#			\$ 2.95					286,675		365	845,692
	L40 L40	A020 A030	F-R-L40-T020 F-R-L40-T030	4		\$ 5.4700 \$ 6.3200		<u> </u>				l		365 365	
Commercial	L40	A050	F-R-L40-T050	#		\$ 8.1200								365	
Commercial Commercial	L40 L40	A075	F-R-L40-T075 F-R-L40-T100	Ţ		\$ 9.7100		LΞ						365 365	-
	L40 L40	A100 RGMU	F-R-L40-1100 F-R-L40-RGMU	+		\$ 10.8200 \$ 5.5300								365 365	
Commercial	L40	ABSW	F-R-L40-ABSW	⇉		\$ 0.2100								365	
	L40 L40	OLSW FSSW	F-R-L40-OLSW F-R-L40-FSSW	+		\$ 2.0600 \$ 2.7600		-				<b> </b>		365 365	
Commercial	L40	CRBK	F-R-L40-CRBK	_		\$ 11.6300								365	
Total				I								600,107	121		3,094,072
Industrial - Rotorua	& Taupo			+											
Industrial	160		E-T-I60-TAIC	╛	\$ 946.08								1	365	345,319
	160		E-T-I60-TAIC		\$ 909.48								1	365	331,960
Industrial Total	160		E-R-160-TAIC	+	\$ 678.81		l .						3	365	247,766 925,045
				т											
All groups Grand total			·	_				_		428,549,082		863,869	43,762		39,786,324

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# **Threshold Compliance Statement**



# **Summary**

The following table summarises the  $P \times Q$  schedules from above.

Region	∑ Actual P <sub>i,2010</sub> Q <sub>2007</sub>
Hawke's Bay	\$ 54,628,766
Rotorua/Taupo	\$ 39,786,324
Total	\$ 94,415,090

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# **Threshold Compliance Statement**



# APPENDIX F; MAXIMUM NOTIONAL REVENUE FOR THE PERIOD 1 APRIL 2009 TO 31 **MARCH 2010**

Actual Hawke's Bay rates effective from 1 April 2009, multiplied by 2007 remapped quantities

					Total	Tariff (∑P	, Q <sub>2007</sub> ) Q07 at	t P10					
CONSUMER GROUP	LOAD	PATTERN	CODE	Pi,2010 FIXED	PI,2010 CAPACITY	PI,2010 DEM AND	Pi,2010 VARIABLE	Q2007 Volumes	Q2007 DEDICATED	Q2007 DEM AND	Q2007 CUSTOMER	Q2007 DAYS	∑PI,2010Q2007 REVENUE
	GROUP	CLASS		TARIFF	(\$/kVA	TARIFF (\$/kW	TARIFF		ASSET		NUM BERS		
				(\$/day)	capacity/day)	AMD/month)	(c/kWh)	(kWh)	(#)	(kW)	(#)	(#)	
Unmetered													
Unmetered Unmetered	U01 U02		E-H-U01-UNMT E-H-U02-UNMT				0.0909	525,220 8 376 199				365 365	47,743 761,397
Unmetered	U08		F-H-U08				0.0909	8,370,188				365	701,397
Unmetered Total	U09		F-H-U09					8,901,420				365	809,139
Temporary Builder St	upply (mete	ered)											
TBS TBS	T1P T1P		F-H-T1P E-H-T1P-24UC									365 365	
TBS TBS	T3P T3P		F-H-T3P E-H-T3P-24UC									365 365	
Total	13P		E-FI-13F-24UC									365	
Mass Market													
Mass Market Mass Market	M11 M11	24UC	F-H-M11 E-H-M11-24UC	0.15			0.0916	1,430,154			11,473	365 365	628,147 131,002
Mass Market Mass Market	M11 M11	AICO CTRL	E-H-M11-AICO E-H-M11-CTRL				0.0791 0.0498	44,811,500 2,792,795				365 365	3,544,590 139,081
Mass Market Mass Market	M11 M11	NITE CTUD	E-H-M11-NITE				0.0331 0.1166	1,191,795				365 365	39,448
Mass Market	M11	CTUN	E-H-M11-CTUD E-H-M11-CTUN				0.0169	178,769 59,590				365	20,844 1,007
Mass Market Mass Market	M12 M12	24UC	F-H-M12 E-H-M12-24UC	0.683			0.0673	11,154,424			44,624	365 365	11,127,798 750,693
Mass Market Mass Market	M12 M12	AICO CTRL	E-H-M12-AICO E-H-M12-CTRL				0.0552 0.0270	349,964,669 5,270,337				365 365	19,318,050 142,299
Mass Market Mass Market	M12 M12	NITE CTUD	E-H-M12-NITE E-H-M12-CTUD				0.0109 0.0857	9,307,748 1,396,162				365 365	101,454 119,651
Mass Market	M12	CTUN	E-H-M12-CTUN				0.0124	465,387			EG 007	365	5,771
Total								428,023,329			56,097		36,069,835
Small Commercial Small Commercial	S20		F-H-S20	1.95							1,697	365	1,207,840
Small Commercial Small Commercial	S20 S20	24UC CTRL	E-H-S20-24UC E-H-S20-CTRL				0.0560 0.0265	75,487,289 716,544				365 365	4,227,288 18,988
Small Commercial Small Commercial	S20 S20	NITE CTUD	E-H-S20-NITE E-H-S20-CTUD				0.0147 0.0713	778,284 1,778,604				365 365	11,441 126,814
Small Commercial Small Commercial	S20 S20	CTUN SOPD	E-H-S20-CTUN E-H-S20-SOPD			3.42	0.0103	597,881		8.785		365 365	6,158 30,046
Small Commercial	S20	WOPD	E-H-S20-WOPD			10.97				6,370		365	69,881
Small Commercial Small Commercial	S20 S22	DMND	E-H-S20-DMND F-H-S22	9.73		3.00				14,733	175	365 365	44,199 621,504
Small Commercial Small Commercial	S22 S22	24UC CTRL	E-H-S22-24UC E-H-S22-CTRL				0.0531 0.0251	19,243,083 410,890				365 365	1,021,808 10,313
Small Commercial Small Commercial	S22 S22	NITE CTUD	E-H-S22-NITE E-H-S22-CTUD				0.0139 0.0676	141,561 408,169				365 365	1,968 27,592
Small Commercial Small Commercial	S22 S22	CTUN	E-H-S22-CTUN E-H-S22-SOPD			3.31	0.0098	146,635		33,337		365 365	1,437 110,346
Small Commercial	S22	WOPD	E-H-S22-WOPD			10.62 2.79				26,812 84,632		365	284,743
Small Commercial Small Commercial	S22 S24	DMND	E-H-S22-DMND F-H-S24	19.46		2.79				64,632	88	365 365	236,124 625,055
Small Commercial Small Commercial	S24 S24	24UC CTRL	E-H-S24-24UC E-H-S24-CTRL				0.0502 0.0237	423,047 79,359				365 365	21,237 1,881
Small Commercial Small Commercial	S24 S24	NITE CTUD	E-H-S24-NITE E-H-S24-CTUD				0.0131 0.0639					365 365	0
Small Commercial Small Commercial	S24 S24	CTUN SOPD	E-H-S24-CTUN E-H-S24-SOPD			3.20	0.0093			66,967		365 365	0 214,295
Small Commercial Small Commercial	S24 S24	WOPD DMND	E-H-S24-WOPD E-H-S24-DMND			10.26 2.58				52,138 221,126		365 365	534,931 570,506
Small Commercial Small Commercial	S26 S26	24UC	F-H-S26 E-H-S26-24UC	29.20		2.50	4.5800			221,120	21	365 365	223,818
Small Commercial Small Commercial	S26 S26	CTRL NITE	E-H-S26-CTRL E-H-S26-NITE				2.1600 1.2000					365 365	0
Small Commercial	S26	CTUD	E-H-S26-CTUD				5.8300					365	0
Small Commercial Small Commercial	S26 S26	SOPD	E-H-S26-CTUN E-H-S26-SOPD			3.20	0.8400			36,677		365 365	117,365
Small Commercial Small Commercial	S26 S26	WOPD DMND	E-H-S26-WOPD E-H-S26-DMND			10.26 2.58				27,710 111,686		365 365	284,307 288,150
Total								100,211,345	0	690,974	1,981		10,940,036
Large Commercial													
Commercial Commercial	L40 L40	24UC	F-H-L40 E-H-L40-24UC	15.09			0.0426	1,101,459			192.00	365 365	1,057,507 46,922
Commercial Commercial	L40 L40	SOPD WOPD	E-H-L40-SOPD E-H-L40-WOPD			2.23 7.45				251,017 182,106		365 365	559,768 1,356,689
Commercial Commercial	L40 L40	DMND A020	E-H-L40-DMND F-H-L40-A020			1.86				419,492		365 365	780,255
Commercial Commercial	L40 L40	A030 A050	F-H-L40-A030 F-H-L40-A050									365 365	
Commercial Commercial	L40 L40	A075 A100	F-H-L40-A075 F-H-L40-A100									365 365	
Commercial Commercial	L40 L40	RGMU ABSW	F-H-L40-RGMU F-H-L40-ABSW									365 365	
Commercial	L40	OLSW	F-H-L40-OLSW									365	
Commercial Commercial	L40 L40	FSSW CRBK	F-H-L40-FSSW F-H-L40-CRBK									365 365	
Total								1,101,459	0	852,615	192		3,801,141
Industrial Industrial		TAIC	F-H-160	1,171.25							1	365	427,506
Industrial Industrial		TAIC	F-H-160 F-H-160	1,101.61							1	365 365	402,088 292,438
Industrial		TAIC	F-H-160	784.11							1	365	286,200
Industrial Industrial		TAIC TAIC	F-H-I60 F-H-I60	564.46 687.10							1	365 365	206,028 250,792
Industrial Industrial		TAIC	F-H-I60 F-H-I60	594.71 544.17							1	365 365	217,069 198,622
Industrial Industrial		TAIC	F-H-I60 F-H-I60	540.56 533.96							1	365 365	197,304 194,895
Industrial Industrial		TAIC	F-H-I60 F-H-I60	345.24 298.33							1	365 365	126,013 108,890
Industrial Industrial		TAIC	F-H-160 F-H-160	276.08							1	365	100,769
Industrial		TAIC	F-H-160										
Industrial Industrial		TAIC TAIC	F-H-I60 F-H-I60										
Total Grand total			<u> </u>					538,237,553		1,543,589	13 58,283		3,008,615 54,628,766
								,201,000		.,,,,,,,,,,,	00,200		,020,700

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# Actual Rotorua/Taupo rates effective from 1 April 2009, multiplied by 2007 remapped quantities

		ı		т	Pi,2010	Total Tariff (∑F	P <sub>i,2010</sub> Q <sub>2007</sub> ) Q07	at P10 Pi.	.2010	Q2007	Q2007	Q2007	Q2007	Q2007	∑Pi,2010Q2007
CONSUMER GROUP	LOAD GROUP	PATTERN CLASS	CODE	۲,	FIXED TARIFF	CAPACITY	DEMAND	VAF	RIABLE	CONSUMPTION	DEDICATED	DEM AND	CUSTOMER	DAYS	REVENUE
CONSONIER GROOT	EOAD GROOF	PATIENTOLAGO	CODE	Ψ.		TARIFF (\$/kVA	TARIFF (\$/kW	TA	ARIFF	CONSOMIT TION	ASSET	DEWARD	NUM BERS	DATO	TEV ENOL
					(\$/day)	capacity/day)	AMD/month)	(c)	/kWh)	(kWh)	(#)	(kW)	(#)	(#)	
Unmetered - Rotor Unmetered	ua & Taupo		F-R-U01-UNMT	+				s	0.0993	296.038				365	29.397
Unmetered	U02		E-R-U02-UNMT	+				\$	0.0993	4,207,040				365	417,759
Unmetered	U08		F-R-U08											365	
	U09		F-R-U09	4										365	
Total				+						4,503,078					447,156
Temporary Builder	Supply (metered	) - Rotorua & Taupo		Ŧ											
	T1P		F-R-T1P	- 5	\$ 0.69									365	0
TBS TBS	T1P T3P		E-R-T1P-24UC F-R-T3P	-	\$ 1.90			\$	0.0833					365 365	0
TBS	T3P		E-R-T3P-24UC	+	\$ 1.90			s	0.0636					365	0
Total															0
Mass Market - Rote Mass Market	orua & Taupo		F-R-M11	-	\$ 0.15								20,374	365	1,115,477
Mass Market	M11	AICO	E-R-M11-AICO	+	0.10			\$	0.0801	85,372,515			20,014	365	6,838,338
	M11	CTRL	E-R-M11-CTRL	T				\$	0.0580	7,005,232				365	406,303
	M11	NITE	E-R-M11-NITE	+				\$	0.0376	2,839,225				365	106,755
	M11 M11	24UC CTUD	E-R-M11-24UC E-R-M11-CTUD	+				\$	0.0896 0.1146	9,616,007 423,085					861,594 48,486
Mass Market	M11	CTUN	E-R-M11-CTUN	1				\$	0.0148	241,768					3,578
Mass Market	M12	4100	F-R-M12		\$ 0.6875	-			0.0500	400 000 1			19,359	365	4,857,899
	M12 M12	AICO CTRL	E-R-M12-AICO E-R-M12-CTRL	+				\$	0.0560 0.0348	128,893,185 15,099,147				365 365	7,218,018 525,450
	M12	NITE	E-R-M12-NITE	+			1	\$	0.0348	5,991,493				365	91,670
Mass Market	M12	24UC	E-R-M12-24UC	Ţ				\$	0.0651	34,264,269					2,230,604
	M12 M12	CTUD CTUN	E-R-M12-CTUD E-R-M12-CTUN	1				\$	0.0833	2,474,793 1,339,649					206,150 14,468
Total	MIZ	CTUN	E-R-MIZ-CIUN	+				Þ	0.0108	293,560,368			39,733		24.524.791
· otal				+						200,000,000			35,133		24,024,791
Small Commercial		)													
	S20		F-R-S20	- 5	\$ 1.90								3,684	365	2,554,854
Small Commercial Small Commercial	S20 S20	24UC CTRL	E-R-S20-24UC E-R-S20-CTRL	+				\$	0.0500	95,281,219 4,414,594				365 365	4,764,061 104,184
Small Commercial	S20	NITE	E-R-S20-NITE	$^{+}$				\$	0.0131	6,531,375				365	85,561
Small Commercial	S20	CTUD	E-R-S20-CTUD	T				\$	0.0636					365	0
Small Commercial Small Commercial	S20 S20	CTUN SOPD	E-R-S20-CTUN E-R-S20-SOPD	+			\$ 3.26	\$	0.0092			9,182		365	29,932
Small Commercial	S20	WOPD	E-R-S20-WOPD	+			\$ 9.61					7,293			70,088
Small Commercial	S20	DMND	E-R-S20-DMND				\$ 2.71					12,175			32,994
Small Commercial Small Commercial	S22 S22	24UC	F-R-S22 E-R-S22-24UC	- 1	\$ 9.49			\$	0.0484	12,125,252			157	365 365	543,824 586,862
Small Commercial	S22	CTRL	E-R-S22-CTRL	+				\$	0.0228	1,253,753				365	28,586
Small Commercial	S22	NITE	E-R-S22-NITE	1				\$	0.0127	565,606				365	7,183
Small Commercial	S22	CTUD	E-R-S22-CTUD	1				\$	0.0615					365	0
Small Commercial Small Commercial	S22 S22	CTUN SOPD	E-R-S22-CTUN E-R-S22-SOPD	+			\$ 3.20	\$	0.0089			26,003		365	83,208
Small Commercial	S22	WOPD	E-R-S22-WOPD	+			\$ 9.45					19,661			185,797
	S22	DMND	E-R-S22-DMND	I			\$ 2.58					39,369			101,573
	S24 S24	24UC	F-R-S24 E-R-S24-24UC	- 1	\$ 18.99			\$	0.0467	7.242.935			46	365 365	318,842 338,245
Small Commercial	S24	CTRL	E-R-S24-CTRL	+				\$	0.0220	160,535				365	3,532
Small Commercial	S24	NITE	E-R-S24-NITE					\$	0.0122					365	0
Small Commercial Small Commercial	S24 S24	CTUD CTUN	E-R-S24-CTUD E-R-S24-CTUN	+				\$	0.0594					365 365	0
Small Commercial	S24	SOPD	E-R-S24-SOPD	+			\$ 3.14	Ψ	0.0000			20.913		303	65,667
Small Commercial	S24	WOPD	E-R-S24-WOPD	I			\$ 9.27					15,329			142,096
	S24	DMND	E-R-S24-DMND	٠,	00.40		\$ 2.45					24,877	40	205	60,948
Small Commercial Small Commercial	S26 S26	24UC	F-R-S26 E-R-S26-24UC	+	\$ 28.48		l	\$	0.0467	2,910,367			18	365	187,114 135,914
Small Commercial	S26	CTRL	E-R-S26-CTRL	I				\$	0.0220	-,,-01					0
Small Commercial	S26	NITE	E-R-S26-NITE	Ţ				\$	0.0122						0
Small Commercial Small Commercial	S26 S26	CTUD CTUN	E-R-S26-CTUD E-R-S26-CTUN	+			<b> </b>	\$	0.0594						0
Small Commercial	S26	SOPD	E-R-S26-SOPD	+			\$ 3.14	Ě				25,867			81,223
Small Commercial	S26	WOPD	E-R-S26-WOPD	Ţ		-	\$ 9.27					18,826			174,517
Small Commercial	S26	DMND	E-R-S26-DMND	+			\$ 2.45			420 400 000		44,267	2.00-	365	108,455
Total				+						130,485,636		263,762	3,905		10,795,260
Large Commercial	- Rotorua & Taupo			t											
Commercial	L40		F-R-L40	- 5	\$ 17.30								121	365	764,055
Commercial Commercial	L40 L40	24UC SOPD	E-R-L40-24UC E-R-L40-SOPD	+			\$ 2.34	\$	0.0519			178,379		365 365	417,408
	L40 L40	WOPD	E-R-L40-WOPD	+			\$ 2.34 \$ 7.90	1				178,379		365	1,066,918
Commercial	L40	DMND	E-R-L40-DMND	I			\$ 2.95					286,675		365	845,692
Commercial	L40	A020	F-R-L40-T020	1		\$ 5.4700		<u> </u>						365	
Commercial Commercial	L40 L40	A030 A050	F-R-L40-T030 F-R-L40-T050	+		\$ 6.3200 \$ 8.1200	l	1						365 365	
Commercial	L40	A075	F-R-L40-T075	I		\$ 9.7100								365	
	L40	A100 RGMU	F-R-L40-T100	Ţ		\$ 10.8200		$\perp$						365	-
	L40 L40	ABSW	F-R-L40-RGMU F-R-L40-ABSW	+		\$ 5.5300 \$ 0.2100	<b> </b>	-						365 365	
Commercial	L40	OLSW	F-R-L40-OLSW			\$ 2.0600		L						365	
Commercial	L40	FSSW	F-R-L40-FSSW	Ţ		\$ 2.7600								365	
Commercial Total	L40	CRBK	F-R-L40-CRBK	+		\$ 11.6300						600,107	121	365	3,094,072
ı otal			+	+				_				000,107	121		3,094,072
Industrial - Rotorua															
Industrial	160		E-T-I60-TAIC			-							1	365	345,319
Industrial Industrial	160		E-T-I60-TAIC E-R-I60-TAIC	- 5				-					1	365 365	331,960 247,766
Total			-11.00.100	+	- 370.01								3	303	925,045
				Ţ											
All groups				I											
Grand total										428,549,082		863,869	43,762		39,786,324

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# **Threshold Compliance Statement**



# **Summary**

The following table summarises the  $P \times Q$  schedules from above.

Region	∑ Max P <sub>i,2010</sub> Q <sub>2007</sub>
Hawke's Bay	\$ 54,628,766
Rotorua/Taupo	\$ 39,786,324
Total	\$ 94,415,090

## **Threshold Compliance Statement**



### APPENDIX G; QUALITY THRESHOLD – EXPLANATORY INFORMATION

### G1 Assumptions used in Quality calculations

The formulae as specified in clauses 6(1)(a) and 6(1)(b) of the Gazette Notice for the calculation of SAIDI and SAIFI uses the five-year average SAIDI and SAIFI of Unison to 31 March 2003 as disclosed under clauses 6(1)(a) and 6(1)(b) of the Initial Notice. The issues associated with the five-year average SAIDI and SAIFI as previously disclosed by Unison in the Threshold Compliance Statement for the second assessment date and outlined below are still relevant.

The calculation of the quality threshold requires SAIDI and SAIFI information relating to periods when Unison did not own the Rotorua and Taupo distribution networks as these were acquired from United Networks Limited on 1 November 2002. Although information on these networks relating to periods prior to acquisition exists, there are gaps in some of this information over the required period. On the Hawke's Bay distribution network, data is readily available for most of the reporting period; however there are two months where data is unavailable in the 1999 year as Unison changed fault recording systems during this period.

The availability of outage data for each of the distribution networks is as follows:

- Hawke's Bay, June 1998 to present
- Rotorua and Taupo, July 2000 to October 2002 using data provided by United Network Limited (UNL)
- Rotorua and Taupo, November 2002 to present (Unison Networks Limited data)

Where outage data is unavailable and a figure has been required, Unison has extrapolated from the ten months of data in the 1998/1999 financial year on the Hawke's Bay distribution network, and has used an average figure from the three subsequent financial year's data on the Rotorua and Taupo distribution networks. However, one of the major challenges has been to extract performance data for Rotorua and Taupo from the data available for UNL. The main reason for this is the fact that Rotorua and Taupo formed part of the Eastern Region of UNL. As a result data had to be extracted from the Eastern' Regions data and a number of assumptions had to be made in this process.

In addition to problems sourcing historical outage information similar problems have been encountered with sourcing historical customer numbers. Customer numbers used in the historical SAIDI and SAIFI calculations have been sourced from disclosure information on the Hawke's Bay distribution network and from information supplied during the acquisition process for the Rotorua and Taupo distribution networks.

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### **Threshold Compliance Statement**



### **G2** Policies and Procedures for Recording Outages

Unison's policies and procedures for recording outages are contained within the Unison Control Centre documents. Unison's SCADA system time stamps and records every switching event that occurs on the system. Some of Unison's field assets (such as switches) communicate directly with the SCADA control system showing real time changes in status. Unison has some field assets that do not communicate directly with the SCADA control system. The status of this equipment is communicated to a system operator by radio from either a fault person or line mechanic who operates the remote equipment. The system operator updates the status of the equipment in the SCADA system manually based on this information which in turn is time stamped and logged.

The SCADA system reports outages to a Fault Management System (FMS). The FMS determines the number of customers that are affected by the outage, outage time and the customer minutes lost during the outage. The information required to complete this calculation is retrieved from a combination of spreadsheet and database systems that record customer numbers between switchable elements on the network. The customer numbers within the FMS are updated automatically from both Unison's asset database and geospatial information system which in turn is linked to Unison's billing and customer database.

Customer numbers on the entire distribution network are maintained and updated both in an internal database that is used for billing purposes and externally on a national database (the MARIA registry). Through the billing process third party verification of customer numbers is audited by external parties (retailers) who maintain independent customer databases.

In order to determine SAIDI the total customer minutes lost over the Assessment Period is divided by the average customer numbers, calculated by taking the average customer numbers between the beginning and end of the Assessment Period. SAIFI is calculated by dividing the total cumulative number of customers off over the Assessment Period by the average customer numbers as used in the SAIDI calculation.

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# **APPENDIX H; QUALITY THRESHOLD 6(1)(A)**

The five year average SAIDI as previously disclosed by Unison compared with the 2009/10 result is tabulated below:

Year	SAIDI (Interruption Duration)								
roui	Class B	Class C	Total						
1999	82.46	93.03	175.49						
2000	75.62	72.74	148.36						
2001	89.35	97.03	186.38						
2002	52.75	67.85	120.60						
2003	40.84	91.84	132.68						
	Five Year Av	152.70							
2010	38.04	72.84	110.88						

# **APPENDIX I; QUALITY THRESHOLD 6(1)(B)**

The five year average SAIFI as previously disclosed by Unison compared with the 2009/10 result is tabulated below:

Year	SAIFI (Interruption Frequency)									
rear	Class B	Class C	Total							
1999	0.83	1.65	2.48							
2000	0.81	1.29	2.10							
2001	0.98	1.92	2.90							
2002	0.60	1.64	2.24							
2003	0.53	1.69	2.22							
	Five Year Av	2.39								
2010	0.20	1.39	1.59							

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### **Threshold Compliance Statement**

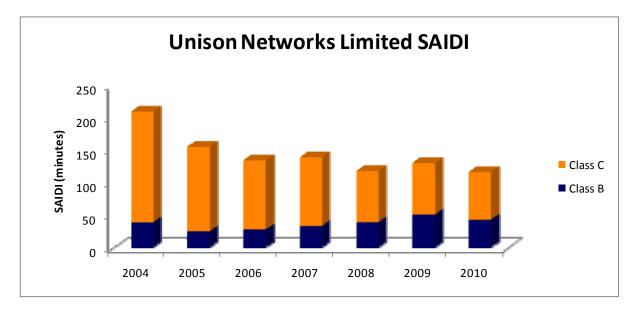


### APPENDIX J; SAIDI AND SAIFI TARGETS AND TRENDS

To manage performance levels provided to the larger volume of consumers where Unison does not have direct contact, the Company has adopted the industry measures of SAIDI and SAIFI.

The 2007 Asset Management Plan and the Company's Statement of Corporate Intent has a Network SAIDI target of <153 and a Network SAIFI target of <2.39. Both these targets were achieved in the year ended 31 March 2010.

The graph below shows the Hawke's Bay and Taupo/Rotorua (Central Regions) contribution to SAIDI 12 month moving average. The graph indicates a decreasing trend of the SAIDI average.

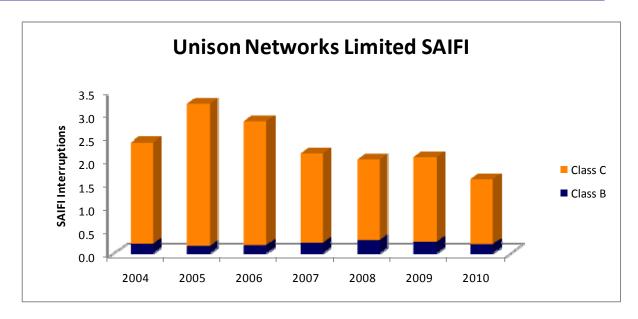


The graph below shows the Hawke's Bay and Taupo/Rotorua (Central Regions) contribution to SAIFI 12 month moving average. The graph indicates a decreasing trend of the SAIFI average.

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The decreasing trend in the SAIDI and SAIFI 12 month moving for Hawke's Bay and Central region averages indicate a positive consequence of Unison's escalation of its CAPEX program and significant investment in the Network.

In summary, Unison while maintaining prices in real terms (in line with the Commerce Commission's CPI-X Threshold) has delivered improved quality performance

## **CLARIFICATION**

Clarification of any matter referred to in this document should be directed to:

Commercial Manager Unison Networks Ltd PO Box 555 1101 Omahu Rd HASTINGS

Ph (06) 873 9300 Fax (06) 873 9311

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