

Annual Compliance Statement

for the Assessment Period, ending 31 March 2016

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1 Purpose

This document states Aurora's compliance with price-quality regulation made under Part 4 of the Commerce Act 1986.

1.1 Disclaimer

Information disclosed in this Statement has been prepared solely for the purposes of the Determination. The information in this Statement should not be used for any other purpose than that intended under the Determination.

For presentation purposes, some figures in this Statement have been rounded. This may cause small discrepancies when aggregating some of the figures provided; however these discrepancies do not affect the overall compliance calculations, which are based on more detailed figures.

2 Scope

This document applies to regulated Electricity Distribution Services provided by Aurora.

3 Accountabilities

Aurora Board of Directors	Accountable for certifying this Statement in accordance with clause 11.3(a) of the Determination.
Commercial Manager (Delta)	Accountable for ensuring that this Statement is: <ol style="list-style-type: none"> prepared annually; audited; disclosed to the Commerce Commission in accordance with clause 11.1(a) of the Determination; and publicly disclosed in accordance with clause 11.1(c) of the Determination.

4 Definitions

Aspect.	Definition.
Determination	means the Electricity Distribution Services Default Price-Quality Path Determination 2015.
IMs	means the Electricity Distribution Services Input Methodology Determination 2012.
Methodology	means Aurora's Use-of-System Pricing Methodology. Effective: 1 April 2015 ¹
Statement	means this Annual Compliance Statement

All other capitalised terms have the meanings ascribed to them in the Determination or IMs. Accordingly, this Statement must be read in conjunction with the Determination and, where necessary, the IMs.

¹ Available from www.auroraenergy.co.nz

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5 Statement of Compliance

5.1 Compliance with the Price Path

Aurora Energy Limited complies with the price path at the assessment date, 31 March 2016, as specified in the Determination.

Clause 8.3 of the Determination requires that the notional revenue (NR) of a Non-exempt EDB, in the Assessment Period, must not exceed the allowable notional revenue (ANR) for the Assessment Period. Compliance is established in the following table, which demonstrates that notional revenue during the Assessment Period does not exceed allowable notional revenue.

Test:	$NR_{2015/16} \leq ANR_{2015/16}$	
NR _{2015/16}	\$	55,838,036
ANR _{2015/16}	\$	55,891,603
Result	0.9990 < 1	
Result	Price Path has not been breached	

Table 1 - Statement of price path compliance

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

5.2 Compliance with the Quality Standards

Aurora Energy Limited does not comply with quality standards at the assessment date, 31 March 2016, as specified in the Determination.

5.2.1 2016 Reliability Assessment

Clause 9.1(a) of the Determination requires compliance with Clause 9.2.

To comply with the annual reliability assessment for the current Assessment Period:

- a Non-exempt EDB's SAIDI Assessed Values for the Assessment Period must not exceed the SAIDI Limit specified in Schedule 4A; and
- a Non-exempt EDB's SAIFI Assessed Values for the Assessment Period must not exceed the SAIFI Limit specified in Schedule 4A.

Non-compliance is established in the following tables:

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Test:	$SAIDI_{Assess\ 2015/16} \leq SAIDI_{Limit}$		
SAIDI _{Assess 2015/16}	128.73		
SAIDI _{Limit}	83.37		
	1.5442	> 1	
Clause 9.1(a) Result:	Exceeds limit		

Table 2 - Statement of compliance with the SAIDI limit

Test:	$SAIFI_{Assess\ 2015/16} \leq SAIFI_{Limit}$		
SAIFI _{Assess 2015/16}	1.74		
SAIFI _{Limit}	1.45		
	1.2044	> 1	
Clause 9.1(a) Result:	Exceeds limit		

Table 3 - Statement of compliance with the SAIFI limit

Supporting evidence is presented in Appendices F and G.

5.2.2 Prior Period Reliability Assessment

Clause 9.1(b) of the Determination requires that a Non-exempt EDB must have complied with the annual reliability assessments in each of the two preceding Assessment Periods.

Non-compliance is established in the following tables:

SAIDI _{Assess 2014/15}	123.59	SAIFI _{Assess 2014/15}	1.37
SAIDI _{Limit 2014/15}	98.29	SAIFI _{Limit 2014/15}	1.67
	1.2574		0.8204
	> 1		< 1
	Exceeds limit		Does not exceed limit

Table 4 - Statement of prior period compliance with the SAIDI limit

SAIDI Assess 2013/14	94.48	SAIFI Assess 2013/14	1.21
SAIDI Limit 2013/14	98.29	SAIFI Limit 2013/14	1.67
0.9612	< 1	0.7246	< 1
Does not exceed limit		Does not exceed limit	

Table 5 - Statement of prior period compliance with the SAIFI limit

5.2.3 Quality Compliance Summary

Clause 9.1 of the Determination requires that a Non-exempt EDB must, in respect of each Assessment Period, either:

- comply with the annual reliability assessment specified in clause 9.2 for that Assessment Period; or
- have complied with the annual reliability assessment in each of the two preceding Assessment Periods.

	SAIDI	SAIFI	Compliance
Compliance with 9.1(a)			
2015/16 Assessment Period	Exceeds limit	Exceeds limit	Does not comply
or			
Compliance with 9.1(b)			Does not comply
2014/15 Assessment Period	Exceeds limit	Does not exceed limit	Does not comply
2013/14 Assessment Period	Does not exceed limit	Does not exceed limit	Complies
Clause 9.1 Result:	Does not comply		

Table 6 - Summary of quality compliance

5.3 Miscellaneous Declarations

As required by clause 11.2(d) of the Determination, in respect of the Assessment Period ending on 31 March 2016, this Aurora Energy Limited declares that:

- it has not undertaken a Restructure of Prices;
- it has not received a transfer of transmission assets from Transpower that become System Fixed Assets, nor has it transferred System Fixed Assets to Transpower;
- it has not been involved in any Amalgamation or Merger;
- it has not conducted a Major Transaction.

5.4 Certification

This Statement was certified in accordance with clause 11.3(a) of the Determination on 8 June 2016.

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6 Explanatory Material

6.1 Price Path

6.1.1 Derivation of Prices

Prices are derived in accordance with the Methodology. Aurora recommends that interested persons read this Statement in conjunction with the Methodology.

The Determination effectively created two separate price paths for the regulatory control period running from 1 April 2015 to 31 March 2020:

1. A distribution price path designed to allow Aurora to recover the costs of owning and operating its distribution network, including a regulated return on investment. Prices are set by allocating allowable notional revenue across quantities that are lagged by two years.
2. A pass-through price path designed to allow Aurora to recover costs that it generally (1) cannot predict with any accuracy at the time prices are set, and (2) cannot control. Prices are set by allocating pass-through and recoverable costs across current quantities, including a forecast for quantity growth during the 12-month pricing period where this is appropriate.

6.1.1.1 Distribution Prices

Distribution Prices are derived by allocating notional revenue to load groups in accordance with section 4.5 of the Methodology, and then to quantities that are lagged by 2 years in accordance with section 5 of the Methodology.

For connections designated as 'Standard Domestic' in the Methodology, distribution costs are recovered on a volumetric basis through a single Distribution Price per tariff.

For connections designated as 'Other' in the Methodology, distribution costs are recovered through a combination of fixed, capacity, and demand Distribution Price components. For connections above 150kVA, an additional capacity-distance Distribution Price component applies, and for connections 500kVA and above, a further additional transformer Distribution Price component applies.

6.1.1.2 Pass-through Prices

Pass-through Prices are derived by allocating Pass-through Costs and Recoverable Costs to load groups in accordance with section 4.5 of the Methodology, and then to forecast quantities for the Assessment Period in accordance with section 5 of the Methodology.

For connections designated as 'Standard Domestic' in the Methodology, Pass-through Costs and Recoverable Costs are recovered on a volumetric basis through a single Pass-through Price per tariff.

For connections designated as 'Other' in the Methodology, Pass-through Costs and Recoverable Costs are recovered through a combination of fixed, capacity and demand price components.

6.1.2 Actual versus Forecast Pass-through and Recoverable Costs

6.1.2.1 Rates on System Fixed Assets (Pass-through)

Aurora is subject to rates from the following local authorities:

- Dunedin City Council;
- Central Otago District Council;
- Queenstown Lakes District Council; and
- Otago Regional Council.

Variance in rates between actual and forecast cost is primarily caused by the timing difference in the rating year and the Assessment Period. When Aurora sets prices for the Assessment Period, the rates from July onward in the Assessment Period (the commencement of the rating year) are

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unknown and must be forecast. Some variation between Aurora's forecast of rates changes and the actual changes in rates is inevitable.

6.1.2.2 Commerce Act Levies (Pass-through)

Commerce Act levies are charged in order to recover the Commerce Commission's costs in developing and administering the regulatory regime for electricity distributors, Transpower, gas pipeline distributors, and major international airports. The Commerce Commission's costs for implementing and maintaining Part 4 of the Commerce Act can be divided into the cost of developing and reviewing Input Methodologies for all regulated sectors and the costs of developing, reviewing and administering other regulatory instruments, such as information disclosure requirements, for each regulated sector.

The variance in Commerce Act levies, between actual and forecast, is generally due to Aurora relying on previous year Commerce Act levies as the forecast value of future Commerce Act levies.

6.1.2.3 Electricity Authority Levies (Pass-through)

The cost of operating the Electricity Authority is recovered through a levy on market participants. Different rates are levied on generators, purchasers, retailers, distributors and the grid owner, Transpower. Levy rates vary each year depending on annual costs, the volume of electricity generated, purchased and conveyed, and the number of consumer connections.

The Electricity Authority levies on distributors have a fixed component and a variable component. To forecast the levies imposed on Aurora by the Electricity Authority, Aurora must forecast network ICP numbers and network energy volumes for the Assessment Period. Aurora must also forecast the levy rates for each component in order to calculate the full levy cost.

The variance in Electricity Authority levies between actual and forecast is due to Aurora relying on previous year Electricity Authority levies as the forecast value of future Electricity Authority levies.

6.1.2.4 EGCC Levies (Pass-through)

Aurora is required to be a member of the Electricity and Gas Complaints Commissioner scheme (EGCC) under the Electricity Industry Act 2010. The EGCC provides a free and independent service to consumers to resolve complaints against member companies that the two parties have not been able to resolve independently.

The EGCC is funded by levies charged to member companies. When Aurora sets prices for the Assessment Period, the levies to be charged for the upcoming year are unknown and must be forecast.

6.1.2.5 Transmission Costs (Recoverable)

Transmission charges are the sum of:

- Transpower connection, interconnection, new investment, and customer investment charges; and
- The Distributed Generation Allowance (avoided costs of transmission, paid to distributed qualifying generators).

Loss and constraint rental rebates for grid exit point off-takes are excluded, as these are passed through to retailers each month on the basis of their share of monthly transmission charges. HVDC charges and loss and constraint rental rebates associated with injection at grid exit points are excluded, as these are recovered / passed through directly from/to large distributed generators.

The variance in transmission charges between actual and forecast is attributable to a partial refund of connection charges arising from another EDB connecting to the Halfway Bush GXP 33kV bus.

6.2 Quality Standards

6.2.1 *Compliance with the Annual Reliability Assessment*

The following factors have contributed to Aurora's non-compliance with the annual reliability assessment:

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- A significant reinvestment and maintenance programme, necessitating greater than average² Class B (planned) interruptions and their resultant SAIDI and SAIFI contributions;
- A greater than average³ incidence of major event days, affecting both SAIDI and SAIFI; and
- An awareness of the new Health & Safety legislation has prompted a review of how maintenance is undertaken in extreme circumstances, such as managing work under extreme conditions and managing staff fatigue.

6.2.1.1 *Reinvestment & Maintenance Programme*

In 2013, Aurora embarked on a significant reinvestment and maintenance programme, largely as a consequence of exceeding the quality limits in 2011 (SAIDI) and 2012 (SAIDI & SAIFI). The key focus of the reinvestment and maintenance programme is the replacement of aging pole structures and management of vegetation near overhead lines.

When EDBs' quality standards were reset, the Commerce Commission looked at a 10-year dataset and set the targets based on historic averages, adjusted for new weighting and normalisation mechanisms. It is Aurora's understanding that little or no regard was had for EDBs' investment plans as outlined in individual asset management plans.

As can be seen in Figure 1 and Figure 2, the SAIDI and SAIFI contribution made by planned events, especially in the 2015 and 2016⁴ Assessment Periods, far exceeds the historic average of Class B indices contained within the reference set used to reset Aurora's quality standards.

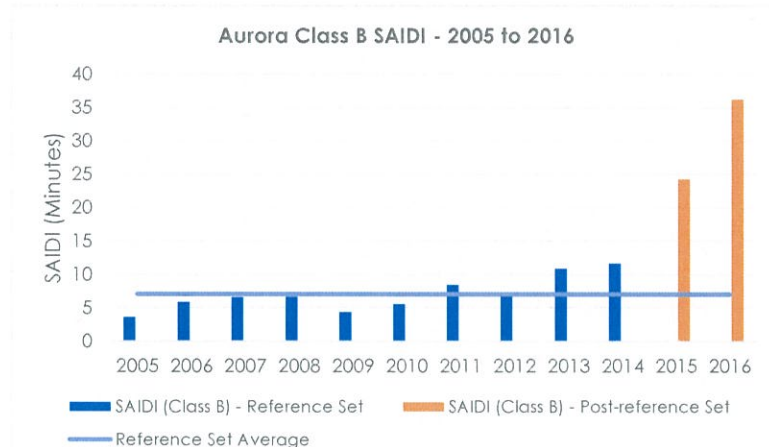


Figure 1 - Historic SAIDI (Class B)

² With respect to the 10-year dataset used by the Commerce Commission to reset Aurora's quality standards from 1 April 2015.

³ With respect to the 10-year average of 2.3 major event days per year, for both SAIDI & SAIFI, that formed part of the Commerce Commission's design of the quality standards.

⁴ Note that the 50% de-weighting has been removed for 2016, in order to make a valid comparison with prior years.

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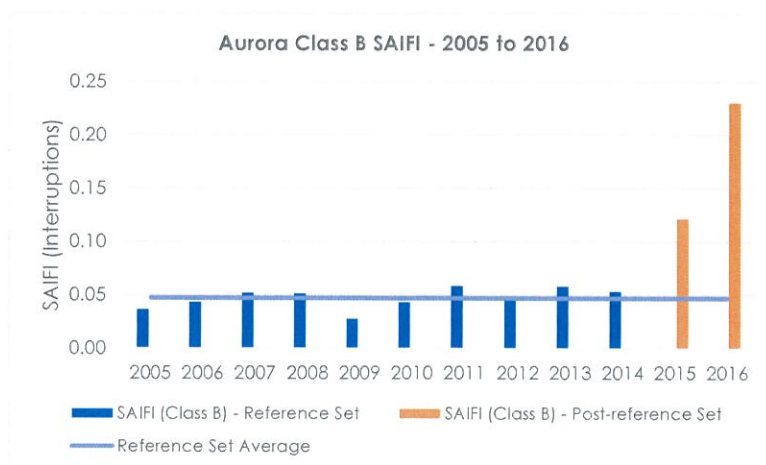


Figure 2 - Historic SAIFI (Class B)

6.2.1.2 Major Event Days

During the Assessment Period, Aurora experienced a total of 10 major event days:

- 6 instances of SAIDI and SAIFI major events days occurring concurrently;
- 3 instances of SAIDI major events days occurring independently; and
- 1 instance of a SAIFI major events day occurring independently.

Table 29 and Table 30 (Appendix F) refer.

Date: 25 May 2015	MED Type: SAIDI and SAIFI	SAIDI: 11.843 min.	SAIFI: 0.095 int.
Wintry weather hit the South Island, with snow closing roads around the region and storms causing power outages in Dunedin and Central Otago. The Dunedin received multiple lightning strikes resulting in damage to four large 6.6kV/400 distribution transformers. Transformers were unrepairable, requiring removal and replacement, and the use of temporary generation to maintain supply. Affected areas were Musselburgh, Port Chalmers and part of the Otago Peninsula. In Central Otago, the snow loading on trees and conductors resulted in multiple conductor breaks. Areas most affected were Omakau, Queenstown/Frankton, Lake Hayes, and Arrowtown.			
Date: 4 October 2015	MED Type: SAIDI and SAIFI	SAIDI: 20.912 min.	SAIFI: 0.132 int.
A severe wind event hit the South Island from Christchurch south. The Central Otago and Dunedin networks were hit by severe winds, lightning, and hail. Power remained out in some parts of Dunedin and Central Otago overnight (Glenorchy, Kinloch, Closeburn, Omakau, Macandrew Bay and Leith Valley) as severe weather made it unsafe for service crews to continue repairs. Making safe response continued through the night. The severe weather resulted in 25 high voltage feeder faults. Severe wind speeds delayed the fault response by precluding the use of helicopters to conduct line patrols. The lightning storm reoccurred in some areas of Central Otago, requiring several return visits to carry out repairs to HV transformer fuses.			
Date: 7 October 2015	MED Type: SAIDI only	SAIDI: 6.183 min.	SAIFI: 0.058 int.
The region experienced hot temperatures with high wind gusts of 80-100kph, including Dunedin which recorded a high of 29 degrees. The Otago Rural Fire Authority issued a "spike day" alert notification due to the high temperatures and wind gusts. A number of fires occurred, resulting in pole damage, and trees and conductor clashes caused interruptions in the East Taieri, Alexandra and Queenstown areas. A significant fire on Saddle Hill prevented access by service crews for around 8 hours.			
Date: 17 October 2015	MED Type: SAIDI only	SAIDI: 4.324 min.	SAIFI: 0.014 int.
At 5:18am, all supply was lost to Omakau with the tripping of the single 33kV circuit from Alexandra to Omakau. The cause of the fault was found to be a failed 33kV splice wrap joint, mid span, close to the Alexandra end of the feeder. The fault location was on steep country with limited vehicle			

access which made identifying and repairing the fault more difficult. Subsequent to this event, all 33kV line wrap splices have been removed from the Omakau circuit and are no longer used on the Aurora network for joining inline 33kV conductors.

Date: 24 November 2015	MED Type: SAIDI and SAIFI	SAIDI: 4.660 min.	SAIFI: 0.166 int.
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The Central Otago network experienced high winds for a relatively short period of time between mid-morning and 4pm. Two significant interruptions impacted on more than 11,000 customers:

1. A large tree (towards Glenorchy) fell through lines and across the main road to Glenorchy. A manual reclose of the feeder by the Network Coordinator resulted in a protection tripping of Fernhill T1, affecting part of the Queenstown central business district, Closeburn and Glenorchy.
2. A prolonged (87 seconds) high resistance earth fault occurred within Aurora's Cromwell 33kV system. This was likely caused by a pole fire on the Cromwell – Wanaka 66kV No. 1 circuit. Due to the high resistance nature of the fault (~25A), feeder protection at Aurora's Cromwell zone substation did not detect the fault. As a result, Transpower's Neutral Earthing Resistor (NER) earth fault protection operated to clear the fault, tripping Cromwell CB1082 (Transpower) and causing a loss of supply at the grid exit point, as Cromwell T5 (Transpower) was not in service during the fault. If Cromwell T5 (Transpower) had been in service, a GXP interruption may have been avoided, as the fault current would have been shared between T5 and T8. Transpower are looking into this in more detail; however, as this event was likely triggered by an incident within the Aurora network, we have not excluded this incident from Aurora's quality assessment.

Date: 26 November 2015	MED Type: SAIDI only	SAIDI: 6.641 min.	SAIFI: 0.044 int.
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Strong winds affected the Central Otago network and caused a number of fault events in the Wakatipu and Alexandra areas. The bulk of the SAIDI impact (4.825 minutes) was attributable to a tree through the Queenstown – Glenorchy 11kV circuit, which took 20.4 hours to restore service to all affected customers. The bulk of the SAIFI impact (0.030 interruptions) was attributable to transient faults (likely wind-blown debris) cleared by successful manual reclose attempts.

Date: 27 November 2015	MED Type: SAIDI and SAIFI	SAIDI: 21.497 min.	SAIFI: 0.069 int.
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Severe weather and high winds caused service interruptions on the Aurora Energy network in parts of Central Otago and Dunedin (Wanaka, Dalefield, Lake Hayes, Frankton Flats, The Neck, Makarora, Cardrona, Closeburn, Glenorchy, Springvale, Alexandra, East Taieri, Saddle Hill, North East Valley, and Port Chalmers). High winds caused damage to power poles and caused trees to clash into overhead lines. Service crews responded and restored power where it was safe to do so; however, a number of repairs were delayed until after daybreak for safety reasons. The event required activation of Aurora's operational coordination centre, active media, personnel and fatigue management.

Date: 23 December 2015	MED Type: SAIFI only	SAIDI: 1.569 min.	SAIFI: 0.093 int.
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Supply was interrupted to the Upper Clutha, including Wanaka, when both Cromwell – Wanaka 66kV sub-transmission circuits tripped. A fault occurred on one circuit while the inter-trip protection scheme between Cromwell and Wanaka was inoperable. The inoperable status of the inter-trip protection was unknown to the Control Room. The backup protection correctly tripped the second transformer at Wanaka, to disconnect the alternative feed into the fault. The actual cause of the fault on the 66kV circuit from Cromwell to Wanaka remains unknown; however, members of the public reported a flash of light close to the Cromwell end of the circuit, and it is suspected a flash over occurred on an underbuilt 11kV circuit, and caused the fault on the 66kV circuit (same pole structure). It is not uncommon for loose cover material from vineyards and orchards to tangle around poles and lines in the Cromwell area. Subsequent to this event, the inter-trip scheme has been repaired and a fail condition alarm activated in SCADA.

Date: 10 March 2016	MED Type: SAIFI and SAIFI	SAIDI: 43.292 min.	SAIFI: 0.199 int.
<p>A severe wind event hit Dunedin, beginning at 17:30pm on Thursday 10 March 2016, and continued to affect parts of the network through to 8am on Friday 11 March 2016. The severe gales, with gusts recorded in excess of 150kph (average wind gusts 130kph), caused significant disruption to customers connected to Aurora's network. The strongest gusts recorded were 152kmh at Taiaroa Head at 6pm and 7pm, while Goat Island, by Port Chalmers, had winds of 144kmh at 7pm. Over the period of 14 hours (6pm to 8am) a total of 13 high voltage feeders sustained significant damage as a result of tree contacts and conductor breaks. The main areas affected were Green Island, Outram, Henley, Allanton, Momona, Cape Saunders, Harwood, Otakou and Taiaroa Head. Most significantly, Halfway Bush - Green Island 33kV circuits No1 and No2 sustained multiple tree contacts/trees falling through lines. The section where these circuits pass through the Green Island pine forestry block suffered the most damage. Extensive damage occurred to 6 x 33kV poles, crossarms, conductors and pilot wire control cables. Both circuits required significant repairs and reconstruction. The event required activation of Aurora's operational coordination centre, active media, personnel and fatigue management.</p>			
Date: 15 March 2016	MED Type: SAIFI and SAIFI	SAIDI: 3.396 min.	SAIFI: 0.063 int.
<p>At 6:00am, a protection fault resulted in the tripping of Green Island - Halfway Bush 33kV circuit No1. At the time of the fault, Green Island zone substation was on 'n'-security due to continuing repair works on Green Island - Halfway Bush 33kV circuit No2, as a consequence of the severe storm 5 days earlier (see above). The fault was traced to a pilot cable failure and required the replacement of 600 metres of multi-core cable. A visual inspection of the cable points to a lightning strike; however, it is unclear when this occurred.</p>			

Table 7 - Major event day causes

6.2.2 Actions to Mitigate Non-Compliance

There is a relatively limited range of actions that can be taken to effect an improvement in distribution reliability, and all generally take time (and investment) before improvements are noted in reliability indices. Action that can be taken includes:

- Data collection and analysis, to understand the scope of the problem, direct resources, and measure improvements.
- Outage prevention, through maintenance and reinvestment programmes to ensure that overhead structures are durable and that external influences are minimised. Examples of the latter include vegetation control, animal guards, etc.
- Network segmentation and sectionalising, to ensure that interruptions are limited in their geographical scope, and therefore, customer impact. Examples include installation of feeder reclosers and ensuring that spurs are fused at the 'tee' point.
- Accelerating restoration of outages. Appropriate network segmentation and sectionalising can assist in reducing restoration times, as the fault finding time is generally reduced. Other technology that can be employed to reduce restoration time includes fault locators at the cheaper end of the spectrum, to motorised and remotely controlled switchgear at the more expensive end.

When a deteriorating reliability trend is noted, there is no 'magic wand' that can be waved to instantly bring matters under control. Also new Health & Safety legislation has had an impact on the amount of live line work performed.

6.2.2.1 Planned Outages

As discussed in section 6.2.1.1, Aurora has a significant renewal and maintenance programme in place, aimed at effecting improvements to reliability that were identified, in part, through Aurora's non-compliance with quality standards in 2011 and 2012. Consequently, the scale of Class B (planned) outages has increased to permit pole replacements and vegetation clearance in a safe manner, generally in circumstances where live working is not technically feasible. Additionally, significant customer growth in Central Otago means that the quantity of network extensions has

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remained high, and associated load growth, particularly in irrigation, has seen the commissioning of new zone substations at Lauder Flat and Camp Hill, along with associated conductor upgrades. All of this work comes at some reliability cost, in terms of Class B outages. Aurora could have restricted planned work; however, such action would be counterproductive, as it would impact on work destined to have a positive reliability impact in the longer term. Additionally, not supplying new customers would damage business reputation and confidence in the electricity supply industry, as well as having a likely detrimental effect on the regional economy.

6.2.2.2 Outage Control and Response

In addition to the reinvestment and maintenance programme, Aurora continues to progress a major upgrade of its Network Management system. This upgrade includes new control room arrangements, new SCADA, incorporates a new advanced distribution management system (ADMS) and outage management system (OMS)⁵, new communication links between primary and secondary control rooms and substations, new remote terminal units at each substation, new load control equipment, sub-transmission circuit protection equipment and direct communication links between Aurora and Transpower.

As part of this project, the existing Dunedin and Central Otago control rooms will be consolidated into one network operations centre (NOC). Staffing of the NOC will transition from the current 'office hours then on-call' arrangement, to staffing 24 hours per day, 7 days per week (24/7). In preparation for this change, the Dunedin control room moved to a split-shift arrangement in late February, allowing staffing from 7am to 11:30pm, Monday to Friday. The operations group has seen a significant improvement in response times to faults as a result of this change. On 1 July 2016, the Dunedin control room will transition to 24/7 staffing. The consolidation of the Dunedin and Central Otago control rooms remains a future activity, as this is reliant on completion of SCADA and communications upgrades.

6.2.2.3 Pole Reinforcement

As reported in Aurora's 2016 Asset Management Plan⁶, a pole reinforcement programme is being developed. This programme involves restoring a pole that has reached the end of its serviceable life, due to below ground deterioration, by installing a single - or in some cases double - steel truss (or nail). By driving the truss (nail) and securing it alongside a wood pole, bending loads applied to the pole through wind pressure, equipment, ice and wire tension are transferred to the truss (nail), which carries the load to the ground-effectively bypassing the decayed or damaged areas. These trusses (nails), when properly sized and oriented, are engineered to have the equivalent strength of the original wood pole.

Pole reinforcement is a fast, effective and cost efficient solution when compared to pole replacement alone. By utilising reinforcement in parallel to Aurora's pole replacement program, it will be possible to accelerate the reduction in risk (by reducing both the likelihood and consequences) associated with in service failures of poor condition poles. It will also allow better utilisation of Class B outages (if not a reduction) as the reinforcement can be undertaken 'live'. It was Aurora's intention to commence reinforcing from January 2016; however, this has been delayed due to engineering verification, job safety analysis, and process design. It is now expected that reinforcement activities will commence in April 2016.

6.2.3 **Future Reliability Performance**

Compliance with the quality path is expected to be an increasingly difficult proposition over the coming years, due to a range of factors:

6.2.3.1 Quality Standards

The manner in which the quality standards are set by the Commerce Commission is expected to have a material impact over time. The Commission's general approach applies a sinking lid to quality standards by setting compliance limits with reference to a historical average. For the 2015 reset of

⁵ The ADMS and OMS are components of the GE PowerOn Fusion solution.

⁶ Available from www.auroraenergy.co.nz. Refer section 4.4.2.3, p60

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the default price-quality path for non-exempt distributors, the average was calculated over a 10-year reference period. Accordingly, where a distributor's performance is better than the quality limits, over the reference period, they are 'rewarded' with lower reliability limits that they must comply with.

Aurora noted in its 2014 submission on proposed quality limits for the 2015 to 2020 regulatory period that *"the quality target reset mechanism tends to apply a "sinking lid" that ratchets up service quality requirements over time. Like all sinking lid mechanisms, this could ultimately result in targets that are unsustainable (unless offset by an exponential increase in reliability investment)."*

6.2.3.2 Investment Profiles

As noted above, Aurora's investment profile influences the extent of planned interruptions on the network. The principal activities being planned and undertaken by Aurora over the next few years are pole replacements and vegetation management, and commenced in earnest in 2013.

Whilst, as discussed above, the calculation of compliance limits are based on a historical average and therefore inherently factors in an allowance for planned interruptions, the challenge for Aurora is that its current level of planned interruptions (three year average, 2013 to 2015 – 23.15 minutes) is 64% greater than the average duration of planned interruptions over the reference period used to set the compliance limits (14.10 minutes).

Although the Commission has introduced a 50% weighting on planned interruptions for the period 1 April 2015 to 31 March 2020, this has no material effect on the compliance limits, since the weighting is factored into the limit calculations. At best, the 50% weighting provides Aurora with some additional flexibility to determine which planned events proceed and which might be deferred, as reliability performance approaches the compliance limits.

Figure 1 and Figure 2 provide a practical demonstration of the consequential outcomes when quality standards are reset without taking account of the distributor's investment programme, as articulated in its Asset Management Plan.

6.2.3.3 Health, Safety, and Risk Management

Increased focus on managing health and safety risks, driven in part by the Governments "Working Safer" reforms, is likely to impact on reliability performance in future years. It is possible that some "reliability friendly" work methodologies, such as live working, could become restricted as risk tolerance is driven lower. While this is speculative, there are some areas where reliability is being influenced by health and safety risk management now:

- The adoption of the Electricity Engineers' Association Guide to Management of Arc Flash Hazards has resulted in greater consideration of the hazard, and restricted work practices. As an example, due to the arc-flash potential at some distribution substations, isolation of low voltage circuits by removal of fuses is considered to be too significant a risk and, to effect LV isolation, the distribution transformer needs to be isolated. Thus, interruptions that were not previously captured by the reliability regulations are now included, due to the change in voltage at which the isolation occurs.
- A recent workplace fatality in Australia, associated with the operation of Long & Crawford fuse switches, has seen Do Not Operate (DNO) orders issued by several distributors nation-wide, including Aurora. The DNO order requires that isolation occur at the next available switch, deeper into the network, resulting in a greater number of consumers being interrupted than would otherwise have occurred. Aurora has 162 such units, and while it is possible that the DNO order will be lifted or amended following release of the incident investigation report and associated recommendations, the reliability impact could be material over time.
- Aurora, along with most EDBs, now responds to Rural Fire Service 'spike day' alerts by disabling automatic reclosers in an attempt to prevent fire damage. Arguably, this action decreases, markedly, the utility of auto-reclosers at a time when they are most useful.

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APPENDIX A Director's Certificate

I, Ian Murray Parton, being a director of Aurora Energy Limited certify that, having made all reasonable enquiry, to the best of my knowledge and belief, the attached Annual Compliance Statement of Aurora Energy Limited, and related information, prepared for the purposes of the Electricity Distribution Services Default Price-Quality Path Determination 2015 are true and accurate.



Ian Murray Parton

8 June 2016

APPENDIX B Price Path Compliance Calculations

Allowable Notional Revenue 2015/16		
Term	Description	Value \$
MAR 2015/16	Maximum allowable revenue as specified in Schedule 1 of the DPP Determination	56,512,000
DD	Change in constant price revenue as specified in Schedule 1 of the DPP Determination	1.0111
ANR 2015/16	Allowable Notional Revenue for the year ending 31 March 2016	55,891,603

Table 8 - Derivation of allowable notional revenue

Notional Revenue 2015/16		
Term	Description	Value \$
$\Sigma DP_{2015/16} Q_{2013/14}$	Distribution Prices during 2015/2016 multiplied by 2013/2014 Quantities	55,838,036
NR 2015/16	Notional Revenue for the year ending 31 March 2016	55,838,036

Table 9 - Derivation of notional revenue

APPENDIX C Pass-through Balance

Pass-through Balance 2015/16		
Term	Description	Value \$
<i>PTP</i> 2015/16 <i>Q</i> 2015/16	Pass-through Prices during 2015/2016 multiplied by 2015/2016 Quantities	32,671,339
<i>K</i> 2015/16	Rates on system fixed assets for the year ending 31 March 2016	938,874
	Commerce Act levies for the year ending 31 March 2016	108,226
	Electricity Authority levies for the year ending 31 March 2016	242,305
	EGCC levies for the year ending 31 March 2016	36,936
<i>V</i> 2015/16	Transpower transmission charges for the year ending 31 March 2016	22,413,133
	Transpower New Investment Contract charges for the year ending 31 March 2016	697,588
	System operator services charges for the year ending 31 March 2016	-
	Avoided transmission charges resulting from purchase of transmission asset from Transpower for the year ending 31 March 2016	-
	Distributed generation allowance for the year ending 31 March 2016	7,256,154
	Claw-back for the year ending 31 March 2016	-
	NPV Wash-up Allowance for the year ending 31 March 2016	-
	Energy efficiency and demand-side management incentive allowance for the year ending 31 March 2016	Nil
	Catastrophic event allowance for the year ending 31 March 2016	Nil
	Extended reserves allowance for the year ending 31 March 2016	Nil
	Quality incentive adjustment for the year ending 31 March 2016	Nil
	Capex wash-up adjustment for the year ending 31 March 2016	Nil
	Reconsideration event allowance for the year ending 31 March 2016	Nil
<i>PTB</i> 2014/15	Pass-through Balance from previous Assessment Period	Nil
<i>r</i>	Cost of Debt	6.09%
<i>PTB</i> 2015/16	Pass-through Balance for the Assessment Period ending 31 March 2016	978,124

Table 10 - Calculation of the pass-through balance

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Pass-through Balance Reconciliation 2015/16		
Term	Description	Value \$
<i>PTP_{2015/16} Q_{2015/16}</i>	Pass-through Prices during 2015/2016 multiplied by 2015/2016 Quantities	32,671,339
<i>Total Pass-through and Recoverable Costs</i>	Total Pass-through and Recoverable Costs for the year ending 31 March 2016	31,693,215
<i>PTB_{2015/16}</i>	Pass-through Balance for the Assessment Period ending 31 March 2016	978,124
<i>PTB_{2014/15}</i>	Pass-through Balance from previous Assessment Period	Nil
<i>Difference</i>	Reconciliation between Pass-through Balance for the Assessment Period with the Pass-through Balance for the preceding Assessment Period	978,124

Table 11 – Pass-through balance reconciliation

Pass-through Costs for year ending March 2016				
K _{2015/16}	Actual (\$)	Forecast (\$)	Variance (\$)	Variance (%)
Rates on system fixed assets	938,874	1,028,322	(89,448)	(8.7%)
Commerce Act levies	108,226	120,220	(11,994)	(10.0%)
Electricity Authority levies	242,305	287,018	(44,713)	(15.6%)
EGCC levies	36,936	36,906	30	0.1%
Total Pass-through Costs	1,326,340	1,472,466	(146,126)	(9.9%)

Table 12 - Statement of pass-through costs

Recoverable Costs for year ending March 2016				
V 2015/16	Actual (\$)	Forecast (\$)	Variance (\$)	Variance (%)
Transpower transmission charges	22,413,133	22,445,196	(32,063)	(0.1%)
New investment contract charges	697,588	697,588	-	0.0%
System operator services charges	-	-	-	0.0%
Avoided transmission charges - purchases from Transpower	-	-	-	0.0%
Distributed generation allowance	7,256,154	7,256,154	-	0.0%
Claw-back	-	-	-	0.0%
NPV wash-up allowance	-	-	-	0.0%
Energy efficiency allowance	Nil	-	-	0.0%
Catastrophic event allowance	Nil	-	-	0.0%
Extended reserves allowance	Nil	-	-	0.0%
Quality incentive adjustment	Nil	-	-	0.0%
Capex wash-up adjustment	Nil	-	-	0.0%
Reconsideration event allowance	Nil	-	-	0.0%
Total Recoverable Costs	30,366,875	30,398,938	(32,063)	(0.1%)

Table 13 - Statement of recoverable costs

APPENDIX D Price and Quantity Schedules – Distribution

Area	Description	Distribution Notional Revenue t-1 period DP _{t-1,2015} Q _{t-1,2014}		Distribution Notional Revenue t period DP _{t,2016} Q _{t,2014}		Reference table
Dunedin	Domestic fixed prices	\$	2,553,266	\$	2,553,266	A
	Variable prices	\$	14,041,771	\$	14,338,238	B
	Non domestic fixed prices	\$	10,705,460	\$	10,423,152	C
	Street lighting prices	\$	253,872	\$	269,962	D
	Non-standard prices	\$	119,932	\$	122,319	E
	Sub-total	\$	27,674,300	\$	27,706,937	
Clyde/Cromwell	Domestic fixed prices	\$	756,966	\$	756,966	F
	Variable prices	\$	9,905,092	\$	9,539,510	G
	Non domestic fixed prices	\$	8,008,969	\$	7,177,385	H
	Street lighting prices	\$	115,372	\$	121,991	I
	Non-standard prices	\$	408,735	\$	419,509	J
	Sub-total	\$	19,195,132	\$	18,015,362	
Frankton	Domestic fixed prices	\$	447,749	\$	447,749	K
	Variable prices	\$	4,732,526	\$	4,396,707	L
	Non domestic fixed prices	\$	4,252,437	\$	3,777,631	M
	Street lighting prices	\$	48,026	\$	47,827	N
	Non-standard prices	\$	121,756	\$	120,889	O
	Sub-total	\$	9,602,494	\$	8,790,803	
Frankton Sub Area	Domestic fixed prices	\$	65,279	\$	65,279	P
	Variable prices	\$	597,059	\$	554,540	Q
	Non domestic fixed prices	\$	642,747	\$	565,201	R
	Non-standard prices	\$	70,148	\$	71,162	S
	Sub-total	\$	1,375,234	\$	1,256,182	
Heritage	Domestic fixed prices	\$	4,638	\$	4,638	T
	Variable prices	\$	40,354	\$	58,855	U
	Non domestic fixed prices	\$	1,792	\$	2,371	V
	Street lighting prices	\$	2,349	\$	2,888	W
	Sub-total	\$	49,132	\$	68,752	
All	Total	\$	57,896,293	# \$	55,838,036	

Table 14 - Summarised notional revenues

Table A: Dunedin standard domestic fixed prices				Distribution prices									
Load Group	Description	Code	Units	t-1 period				t period					
				Q _{t-1,2014}	DP _{t-1,2015}	DP _{t,2015}	Q _{t,2014}	Q _{t,2014}	DP _{t,2016}	DP _{t,2016}	Q _{t,2014}		
Standard Domestic 15	HWB/SDNStandard Domestic 15TOTAL	SHSD15	\$/Year	46,504	\$	54.73	\$	2,545,154	46,504	\$	54.73	\$	2,545,154
Standard Domestic 8	HWB/SDNStandard Domestic 8TOTAL	SHSD8	\$/Year	541	\$	15.00	\$	8,112	541	\$	15.00	\$	8,112
SUM						\$	2,553,266				\$	2,553,266	

Table B: Dunedin variable prices				Distribution prices							
Load Group	Description	Code	Units	t-1 period				t period			
				Q _{t-1,2014}	DP _{t-1,2015}	DP _{t,2015}	Q _{t,2014}	Q _{t,2014}	DP _{t,2016}	DP _{t,2016}	Q _{t,2014}
Standard Domestic DN	General Purpose (Summer)	0105	\$/kWh	11,338,937	\$	0.0572	648,587	11,338,937	\$	0.0589	667,863
Standard Domestic DN	General Purpose (Winter)	010W	\$/kWh	8,895,007	\$	0.0652	579,954	8,895,007	\$	0.0658	585,291
Standard Domestic DN	Seasonal Day (Summer)	0115	\$/kWh	1,104,941	\$	0.0518	57,236	1,104,941	\$	0.0537	59,335
Standard Domestic DN	Seasonal Day (Winter)	011W	\$/kWh	1,264,106	\$	0.0557	70,411	1,264,106	\$	0.0562	71,043
Standard Domestic DN	Seasonal Night (Summer)	0125	\$/kWh	569,737	\$	0.0039	2,222	569,737	\$	0.0040	2,279
Standard Domestic DN	Seasonal Night (Winter)	012W	\$/kWh	754,759	\$	0.0039	2,944	754,759	\$	0.0040	3,019
Standard Domestic DN	General Purpose & 16 hour Water Heat (Summer)	0175	\$/kWh	170,156,192	\$	0.0279	4,747,358	170,156,192	\$	0.0287	4,883,483
Standard Domestic DN	General Purpose & 16 hour Water Heat (Winter)	017W	\$/kWh	188,680,580	\$	0.0418	7,886,848	188,680,580	\$	0.0425	8,018,925
Standard Domestic DN	Night + 3 hour other load	24	\$/kWh	2,237,730	\$	0.0147	32,895	2,237,730	\$	0.0149	33,342
Standard Domestic DN	Night Rate	28	\$/kWh	3,414,452	\$	0.0039	13,316	3,414,452	\$	0.0040	13,658
Unmetered Supply DN	Unmetered Supply Variable	30	\$/kWh	-	\$	0.0132	-	-	\$	0.0134	-
SUM						\$	14,041,771			\$	14,338,238

Table C: Dunedin non-domestic fixed prices				Distribution prices							
Load Group	Description	Code	Units	t-1 period			t period				
				Q _{t-1,2014}	DP _{t-1,2015}	DP _{t,2015}	Q _{t,2014}	DP _{t,2016}	DP _{t,2016}		
Unmetered Supply	HWB/SDNUnmetered Supply	SHSUNM	\$/Year	-	\$	13.56	-	-	\$	13.56	-
Load Group 0	HWB/SDNLoad Group 0TOTAL	SH0-L0-F	\$/Year	137	\$	108.35	14,864	137	\$	110.30	15,132
Load Group 0A	HWB/SDNLoad Group 0ATOTAL	SH0A-L0A-F	\$/Year	116	\$	224.94	26,036	116	\$	228.99	26,505
Load Group 1A	HWB/SDNLoad Group 1ATOTAL	SH1A-L1A-F	\$/Year	396	\$	10.25	4,064	396	\$	10.25	4,064
Load Group 1A	HWB/SDNLoad Group 1ACAPACITYTOTAL	SH1A-L1A-CKVA	\$/kVA/Year	3,172	\$	12.44	39,459	3,172	\$	14.19	45,010
Load Group 1A	HWB/SDNLoad Group 1ACPD TOTAL	SH1A-L1A-CPD	\$/kWh/Year	396	\$	93.50	36,990	396	\$	88.50	35,012
Load Group 1	HWB/SDNLoad Group 1TOTAL	SH1-L1-F	\$/Year	2,997	\$	10.25	30,722	2,997	\$	10.25	30,722
Load Group 1	HWB/SDNLoad Group 1CAPACITYTOTAL	SH1-L1-CKVA	\$/kVA/Year	44,978	\$	10.95	492,506	44,978	\$	12.70	571,217
Load Group 1	HWB/SDNLoad Group 1CPD TOTAL	SH1-L1-CPD	\$/kWh/Year	7,498	\$	93.50	701,076	7,498	\$	88.50	663,586
Load Group 2	HWB/SDNLoad Group 2TOTAL	SH2-L2-F	\$/Year	3,017	\$	22.09	66,645	3,017	\$	22.09	66,645
Load Group 2	HWB/SDNLoad Group 2CAPACITYTOTAL	SH2-L2-CKVA	\$/kVA/Year	151,828	\$	14.75	2,239,466	151,828	\$	14.85	2,254,649
Load Group 2	HWB/SDNLoad Group 2CPD TOTAL	SH2-L2-CPD	\$/kWh/Year	25,365	\$	93.50	2,371,635	25,365	\$	88.50	2,244,809
Load Group 3	HWB/SDNLoad Group 3TOTAL	SH3-L3-F	\$/Year	101	\$	402.00	40,485	101	\$	402.00	40,485
Load Group 3	HWB/SDNLoad Group 3CAPACITYTOTAL	SH3-L3-CKVA	\$/kVA/Year	19,825	\$	24.68	489,285	19,825	\$	23.65	468,865
Load Group 3	HWB/SDNLoad Group 3KVA KM	SH3-L3-DIS	\$/kVA-km/Year	107,214	\$	0.28	30,020	107,214	\$	0.28	30,020
Load Group 3	HWB/SDNLoad Group 3CPD TOTAL	SH3-L3-CPD	\$/kWh/Year	5,717	\$	55.19	315,523	5,717	\$	53.10	303,574
Load Group 3A	HWB/SDNLoad Group 3ATOTAL	SH3A-L3A-F	\$/Year	88	\$	402.00	35,517	88	\$	402.00	35,517
Load Group 3A	HWB/SDNLoad Group 3ACAPACITYTOTAL	SH3A-L3A-CKVA	\$/kVA/Year	27,565	\$	22.78	627,941	27,565	\$	21.75	599,549
Load Group 3A	HWB/SDNLoad Group 3AKVA KM	SH3A-L3A-DIS	\$/kVA-km/Year	151,280	\$	0.28	42,359	151,280	\$	0.28	42,359
Load Group 3A	HWB/SDNLoad Group 3ACPD TOTAL	SH3A-L3A-CPD	\$/kWh/Year	9,049	\$	55.19	499,391	9,049	\$	53.10	480,479
Load Group 4	HWB/SDNLoad Group 4TOTAL	SH4-L4-F	\$/Year	76	\$	1,012.00	76,561	76	\$	1,012.00	76,561
Load Group 4	HWB/SDNLoad Group 4CAPACITYTOTAL	SH4-L4-CKVA	\$/kVA/Year	57,652	\$	14.46	833,651	57,652	\$	12.95	746,596
Load Group 4	HWB/SDNLoad Group 4KVA KM	SH4-L4-DIS	\$/kVA-km/Year	324,277	\$	0.28	90,798	324,277	\$	0.28	90,798
Load Group 4	HWB/SDNLoad Group 4CPD TOTAL	SH4-L4-CPD	\$/kWh/Year	17,706	\$	53.35	944,635	17,706	\$	51.00	903,025
Load Group 5	HWB/SDNLoad Group 5TOTAL	SH5-L5-F	\$/Year	8	\$	1,012.00	8,096	8	\$	1,012.00	8,096
Load Group 5	HWB/SDNLoad Group 5CAPACITYTOTAL	SH5-L5-CKVA	\$/kVA/Year	31,625	\$	7.24	228,965	31,625	\$	7.39	233,709
Load Group 5	HWB/SDNLoad Group 5KVA KM	SH5-L5-DIS	\$/kVA-km/Year	228,154	\$	0.28	63,883	228,154	\$	0.28	63,883
Load Group 5	HWB/SDNLoad Group 5CPD TOTAL	SH5-L5-CPD	\$/kWh/Year	8,812	\$	33.43	294,574	8,812	\$	32.00	281,973
Other Charges	HWB/SDNLoad Group OTHER TOTAL	OC	\$	2,337	\$	1.00	2,337	2,337	\$	1.00	2,337
Transformer Charges	HWB/SDNLoad Group TRANS TOTAL	TC	\$	57,977	\$	1.00	57,977	57,977	\$	1.00	57,977
SUM						\$	10,705,460			\$	10,423,152

Table D: Dunedin street lighting prices				Distribution prices									
Load Group	Description	Code	Units	t-1 period				t period					
				Q _{t-1,2014}		DP _{t-1,2015}	DP _{t,2015}	Q _{t,2014}		DP _{t,2016}	DP _{t,2016}		
Street Lighting	Street Lighting	SDNSTL	\$/Year	1	\$	85,921	\$	85,921	1	\$	91,261	\$	91,261
Street Lighting	Street Lighting	HWBSTL	\$/Year	1	\$	167,951	\$	167,951	1	\$	178,701	\$	178,701
SUM						\$	253,872			\$	269,962		

Table E: Dunedin non-standard prices				Distribution prices							
Load Group	Description	Code	Units	t-1 period			t period				
				Q _{t-1,2014}	DP _{t-1,2015}	DP _{t,2015}	Q _{t,2014}	DP _{t,2016}	DP _{t,2016}		
Non-standard	Generation	ICP AAA	\$/Year	1	\$	119,932	119,932	1		122,319	122,319
SUM						\$	119,932			\$	122,319

Table 15 - Notional revenues by tariff - Dunedin pricing area

Table F: Clyde/Cromwell domestic fixed prices				Distribution prices									
Load Group	Description	Code	Units	t-1 period				t period					
				Q _{t-1,2014}	DP _{t-1,2014}	DP _{t-1,2014}	Q _{t-1,2014}	Q _{t,2014}	DP _{t,2014}	DP _{t,2014}	Q _{t,2014}		
Standard Domestic 15	CYD/CML/Standard Domestic 15/TOTAL	CCSD15	\$/Year	13,815	\$	54.73	\$	756,090	13,815	\$	54.73	\$	756,090
Standard Domestic 8	CYD/CML/Standard Domestic 8/TOTAL	CCSD8	\$/Year	58	\$	15.00	\$	876	58	\$	15.00	\$	876
SUM								756,966					756,966

Table G: Clyde/Cromwell variable prices				Distribution prices									
Load Group	Description	Code	Units	t-1 period				t period					
				Q _{t-1,2014}	DP _{t-1,2014}	DP _{t-1,2014}	Q _{t-1,2014}	Q _{t,2014}	DP _{t,2014}	DP _{t,2014}	Q _{t,2014}		
Standard Domestic CYD/CML General Purpose (Summer)		101S	\$/kWh	31,192,108	\$	0.1061	\$	3,309,483	31,192,108	\$	0.1026	\$	3,200,310
Standard Domestic CYD/CML General Purpose (Winter)		101W	\$/kWh	35,347,927	\$	0.1437	\$	5,079,497	35,347,927	\$	0.1380	\$	4,878,014
Standard Domestic CYD/CML Night + 5 hour other load		103	\$/kWh	630,907	\$	0.0624	\$	39,349	630,907	\$	0.0601	\$	37,918
Standard Domestic CYD/CML Night + 3 hour other load		104	\$/kWh	2,277,058	\$	0.0511	\$	116,358	2,277,058	\$	0.0492	\$	112,031
Standard Domestic CYD/CML Std Water Heating 16 hour		106	\$/kWh	23,211,907	\$	0.0554	\$	1,265,940	23,211,907	\$	0.0534	\$	1,239,516
Standard Domestic CYD/CML Night rate		108	\$/kWh	1,102,738	\$	0.0437	\$	48,190	1,102,738	\$	0.0421	\$	46,425
Standard Domestic CYD/CML Peak Water Heating 20 hour		109	\$/kWh	342,770	\$	0.0766	\$	26,256	342,770	\$	0.0738	\$	25,296
SUM								9,905,092					9,539,510

Table H: Clyde/Cromwell non-domestic fixed prices				Distribution prices									
Load Group	Description	Code	Units	t-1 period				t period					
				Q _{t-1,2014}	DP _{t-1,2014}	DP _{t-1,2014}	Q _{t-1,2014}	Q _{t,2014}	DP _{t,2014}	DP _{t,2014}	Q _{t,2014}		
Load Group 0	CYD/CML/Load Group 0/TOTAL	CC0-L0-F	\$/Year	116	\$	202.56	\$	23,445	116	\$	194.36	\$	22,496
Load Group 0A	CYD/CML/Load Group 0A/TOTAL	CC0A-L0A-F	\$/Year	167	\$	386.20	\$	64,370	167	\$	370.56	\$	61,764
Load Group 1A	CYD/CML/Load Group 1A/TOTAL	CC1A-L1A-F	\$/Year	231	\$	13.68	\$	3,165	231	\$	13.68	\$	3,165
Load Group 1A	CYD/CML/Load Group 1ACAPACITYTOTAL	CC1A-L1A-CKVA	\$/kVA/Year	1,848	\$	32.15	\$	59,407	1,848	\$	30.94	\$	57,171
Load Group 1A	CYD/CML/Load Group 1ACPD TOTAL	CC1A-L1A-CPD	\$/kWh/Year	208	\$	188.76	\$	39,250	208	\$	181.12	\$	37,661
Load Group 1	CYD/CML/Load Group 1/TOTAL	CC1-L1-F	\$/Year	1,659	\$	13.68	\$	22,697	1,659	\$	13.68	\$	22,697
Load Group 1	CYD/CML/Load Group 1CAPACITYTOTAL	CC1-L1-CKVA	\$/kVA/Year	24,888	\$	29.79	\$	741,413	24,888	\$	28.58	\$	711,298
Load Group 1	CYD/CML/Load Group 1CPD TOTAL	CC1-L1-CPD	\$/kWh/Year	3,186	\$	188.76	\$	601,475	3,186	\$	181.12	\$	577,130
Load Group 2	CYD/CML/Load Group 2/TOTAL	CC2-L2-F	\$/Year	1,533	\$	28.74	\$	44,058	1,533	\$	28.74	\$	44,058
Load Group 2	CYD/CML/Load Group 2CAPACITYTOTAL	CC2-L2-CKVA	\$/kVA/Year	78,313	\$	28.28	\$	2,214,679	78,313	\$	24.00	\$	1,879,501
Load Group 2	CYD/CML/Load Group 2CPD TOTAL	CC2-L2-CPD	\$/kWh/Year	9,006	\$	188.17	\$	1,694,732	9,006	\$	152.30	\$	1,371,673
Load Group 3	CYD/CML/Load Group 3/TOTAL	CC3-L3-F	\$/Year	61	\$	548.00	\$	33,465	61	\$	548.00	\$	33,465
Load Group 3	CYD/CML/Load Group 3CAPACITYTOTAL	CC3-L3-CKVA	\$/kVA/Year	11,375	\$	31.94	\$	363,329	11,375	\$	28.94	\$	329,203
Load Group 3	CYD/CML/Load Group 3KVA KM	CC3-L3-DIS	\$/kVA-km/Year	390,752	\$	0.37	\$	144,578	390,752	\$	0.37	\$	144,578
Load Group 3	CYD/CML/Load Group 3CPD TOTAL	CC3-L3-CPD	\$/kWh/Year	1,743	\$	194.18	\$	338,475	1,743	\$	171.00	\$	298,070
Load Group 3A	CYD/CML/Load Group 3A/TOTAL	CC3A-L3A-F	\$/Year	35	\$	548.00	\$	19,349	35	\$	548.00	\$	19,349
Load Group 3A	CYD/CML/Load Group 3ACAPACITYTOTAL	CC3A-L3A-CKVA	\$/kVA/Year	10,446	\$	28.65	\$	299,269	10,446	\$	25.65	\$	267,932
Load Group 3A	CYD/CML/Load Group 3AKVA KM	CC3A-L3A-DIS	\$/kVA-km/Year	289,270	\$	0.37	\$	107,030	289,270	\$	0.37	\$	107,030
Load Group 3A	CYD/CML/Load Group 3ACPD TOTAL	CC3A-L3A-CPD	\$/kWh/Year	1,774	\$	194.18	\$	344,567	1,774	\$	171.00	\$	303,435
Load Group 4	CYD/CML/Load Group 4/TOTAL	CC4-L4-F	\$/Year	16	\$	1,439.00	\$	23,180	16	\$	1,439.00	\$	23,180
Load Group 4	CYD/CML/Load Group 4CAPACITYTOTAL	CC4-L4-CKVA	\$/kVA/Year	11,472	\$	18.81	\$	215,793	11,472	\$	20.50	\$	235,181
Load Group 4	CYD/CML/Load Group 4KVA KM	CC4-L4-DIS	\$/kVA-km/Year	491,347	\$	0.37	\$	181,798	491,347	\$	0.37	\$	181,798
Load Group 4	CYD/CML/Load Group 4CPD TOTAL	CC4-L4-CPD	\$/kWh/Year	2,897	\$	142.44	\$	412,587	2,897	\$	148.00	\$	428,691
Load Group 5	CYD/CML/Load Group 5/TOTAL	CC5-L5-F	\$/Year	-	\$	1,439.00	\$	-	-	\$	1,439.00	\$	-
Load Group 5	CYD/CML/Load Group 5CAPACITYTOTAL	CC5-L5-CKVA	\$/kVA/Year	-	\$	16.76	\$	-	-	\$	18.45	\$	-
Load Group 5	CYD/CML/Load Group 5KVA KM	CC5-L5-DIS	\$/kVA-km/Year	-	\$	0.37	\$	-	-	\$	0.37	\$	-
Load Group 5	CYD/CML/Load Group 5CPD TOTAL	CC5-L5-CPD	\$/kWh/Year	-	\$	132.04	\$	-	-	\$	137.60	\$	-
Other Charges	CYD/CML/Load Group OTHER TOTAL	OC-CEN	\$	130	\$	1.00	\$	130	130	\$	1.00	\$	130
Transformer Charges	CYD/CML/Load Group TRANS TOTAL	TC-CEN	\$	16,729	\$	1.00	\$	16,729	16,729	\$	1.00	\$	16,729
SUM								8,008,969					7,177,385

Table I: Clyde/Cromwell street lighting prices				Distribution prices									
Load Group	Description	Code	Units	t-1 period				t period					
				Q _{t-1,2014}	DP _{t-1,2014}	DP _{t-1,2014}	Q _{t-1,2014}	Q _{t,2014}	DP _{t,2014}	DP _{t,2014}	Q _{t,2014}		
Street Lighting kWh CYD/CML Street Lighting kWh		110	\$/kWh	1,742,057	\$	0.0370	\$	64,456	1,742,057	\$	0.0408	\$	71,076
Street Lighting Lamps CYD/CML Street Lighting Lamps		CCSTL	\$/lamp/Year	3,755	\$	13.56	\$	50,916	3,755	\$	13.56	\$	50,916
SUM								115,372					121,991

Table J: Clyde/Cromwell non standard prices				Distribution prices									
Load Group	Description	Code	Units	t-1 period				t period					
				Q _{t-1,2014}	DP _{t-1,2014}	DP _{t-1,2014}	Q _{t-1,2014}	Q _{t,2014}	DP _{t,2014}	DP _{t,2014}	Q _{t,2014}		
Non standard	Generation	ICP AAB	\$/Year	1	\$	383,271.52	\$	383,272	1	\$	393,745.00	\$	393,745
Non standard	Generation	ICP AAC	\$/Year	1	\$	25,463.00	\$	25,463	1	\$	25,764.00	\$	25,764
SUM								408,735					419,509

Table 16 - Notional revenues by tariff - Clyde/Cromwell pricing area

Table K: Frankton domestic fixed prices				Distribution prices									
Load Group	Description	Code	Units	t-1 period				t period					
				Q _{t-1,2014}	DP _{t-1,2015}	DP _{t-1,2015}	Q _{t-1,2014}	Q _{t,2014}	DP _{t,2014}	DP _{t,2014}	Q _{t,2014}		
Standard Domestic 15	FKNStandard Domestic 15TOTAL	FRSD15	\$/Year	8,160	\$	54.73	\$	446,611	8,160	\$	54.73	\$	446,611
Standard Domestic 8	FKNStandard Domestic 8TOTAL	FRSD8	\$/Year	76	\$	15.00	\$	1,138	76	\$	15.00	\$	1,138
SUM						\$		447,749		\$		\$	447,749

Table L: Frankton variable prices				Distribution prices									
Load Group	Description	Code	Units	t-1 period				t period					
				Q _{t-1,2014}	DP _{t-1,2015}	DP _{t-1,2015}	Q _{t-1,2014}	Q _{t,2014}	DP _{t,2014}	DP _{t,2014}	Q _{t,2014}		
Standard Domestic FKN	General Purpose (Summer)	2015	\$/kWh	20,780.579	\$	0.0747	\$	1,552.309	20,780.579	\$	0.0704	\$	1,462.953
Standard Domestic FKN	General Purpose (Winter)	201W	\$/kWh	28,911.207	\$	0.0939	\$	2,714.762	28,911.207	\$	0.0866	\$	2,503.711
Standard Domestic FKN	Night + 5 hour other load	203	\$/kWh	1,277.353	\$	0.0288	\$	36.788	1,277.353	\$	0.0266	\$	33.978
Standard Domestic FKN	Night + 3 hour other load	204	\$/kWh	1,299.679	\$	0.0176	\$	22.874	1,299.679	\$	0.0163	\$	21.165
Standard Domestic FKN	Std Water Heating 16 hour	206	\$/kWh	19,210.421	\$	0.0197	\$	378.445	19,210.421	\$	0.0182	\$	349.630
Standard Domestic FKN	Night rate	208	\$/kWh	916.654	\$	0.0127	\$	11.642	916.654	\$	0.0117	\$	10.725
Standard Domestic FKN	Peak Water Heating 20 hour	209	\$/kWh	356.933	\$	0.0440	\$	15.705	356.933	\$	0.0407	\$	14.527
SUM						\$		4,732,526		\$		\$	4,396,707

Table M: Frankton non-domestic fixed prices				Distribution prices									
Load Group	Description	Code	Units	t-1 period				t period					
				Q _{t-1,2014}	DP _{t-1,2015}	DP _{t-1,2015}	Q _{t-1,2014}	Q _{t,2014}	DP _{t,2014}	DP _{t,2014}	Q _{t,2014}		
Load Group 0	FKNLoad Group 0TOTAL	FR0-10-F	\$/Year	82	\$	137.43	\$	11,297	82	\$	127.40	\$	10,473
Load Group 0A	FKNLoad Group 0ATOTAL	FR0A-10A-F	\$/Year	140	\$	249.00	\$	34,917	140	\$	230.62	\$	32,368
Load Group 1A	FKNLoad Group 1ATOTAL	FR1A-11A-F	\$/Year	133	\$	11.99	\$	1,592	133	\$	11.99	\$	1,592
Load Group 1A	FKNLoad Group 1ACAPACITYTOTAL	FR1A-11A-CKVA	\$/kVA/Year	1,062	\$	16.86	\$	20,159	1,062	\$	17.29	\$	18,364
Load Group 1A	FKNLoad Group 1ACPD TOTAL	FR1A-11A-CPD	\$/kWh/Year	136	\$	88.24	\$	11,963	136	\$	81.39	\$	11,034
Load Group 1	FKNLoad Group 1TOTAL	FR1-11-F	\$/Year	820	\$	11.99	\$	9,833	820	\$	11.99	\$	9,833
Load Group 1	FKNLoad Group 1CAPACITYTOTAL	FR1-11-CKVA	\$/kVA/Year	12,309	\$	17.89	\$	220,208	12,309	\$	16.20	\$	199,405
Load Group 1	FKNLoad Group 1CPD TOTAL	FR1-11-CPD	\$/kWh/Year	2,399	\$	88.24	\$	211,472	2,399	\$	81.39	\$	195,243
Load Group 2	FKNLoad Group 2TOTAL	FR2-12-F	\$/Year	1,216	\$	19.49	\$	23,497	1,216	\$	19.49	\$	23,497
Load Group 2	FKNLoad Group 2CAPACITYTOTAL	FR2-12-CKVA	\$/kVA/Year	58,171	\$	21.29	\$	1,238,468	58,171	\$	18.82	\$	1,094,520
Load Group 2	FKNLoad Group 2CPD TOTAL	FR2-12-CPD	\$/kWh/Year	9,786	\$	106.02	\$	1,037,496	9,786	\$	94.50	\$	924,763
Load Group 3	FKNLoad Group 3TOTAL	FR3-13-F	\$/Year	24	\$	442.00	\$	10,575	24	\$	442.00	\$	10,575
Load Group 3	FKNLoad Group 3CAPACITYTOTAL	FR3-13-CKVA	\$/kVA/Year	4,398	\$	44.02	\$	193,584	4,398	\$	37.20	\$	163,592
Load Group 3	FKNLoad Group 3KVA KM	FR3-13-DIS	\$/kVA-km/Year	65,106	\$	0.35	\$	22,787	65,106	\$	0.35	\$	22,787
Load Group 3	FKNLoad Group 3CPD TOTAL	FR3-13-CPD	\$/kWh/Year	1,032	\$	72.80	\$	75,114	1,032	\$	59.90	\$	61,803
Load Group 3A	FKNLoad Group 3ATOTAL	FR3A-13A-F	\$/Year	24	\$	442.00	\$	10,726	24	\$	442.00	\$	10,726
Load Group 3A	FKNLoad Group 3ACAPACITYTOTAL	FR3A-13A-CKVA	\$/kVA/Year	7,492	\$	40.89	\$	306,358	7,492	\$	34.07	\$	255,261
Load Group 3A	FKNLoad Group 3AKVA KM	FR3A-13A-DIS	\$/kVA-km/Year	107,324	\$	0.35	\$	37,563	107,324	\$	0.35	\$	37,563
Load Group 3A	FKNLoad Group 3ACPD TOTAL	FR3A-13A-CPD	\$/kWh/Year	2,045	\$	72.80	\$	148,852	2,045	\$	59.90	\$	122,473
Load Group 4	FKNLoad Group 4TOTAL	FR4-14-F	\$/Year	16	\$	1,165.00	\$	18,640	16	\$	1,165.00	\$	18,640
Load Group 4	FKNLoad Group 4CAPACITYTOTAL	FR4-14-CKVA	\$/kVA/Year	10,750	\$	23.87	\$	256,603	10,750	\$	22.02	\$	236,708
Load Group 4	FKNLoad Group 4KVA KM	FR4-14-DIS	\$/kVA-km/Year	126,395	\$	0.35	\$	44,238	126,395	\$	0.35	\$	44,238
Load Group 4	FKNLoad Group 4CPD TOTAL	FR4-14-CPD	\$/kWh/Year	4,409	\$	69.43	\$	306,094	4,409	\$	61.69	\$	271,971
Load Group 5	FKNLoad Group 5TOTAL	FR5-15-F	\$/Year	-	\$	1,165.00	\$	-	-	\$	1,165.00	\$	-
Load Group 5	FKNLoad Group 5CAPACITYTOTAL	FR5-15-CKVA	\$/kVA/Year	-	\$	3.28	\$	-	-	\$	1.43	\$	-
Load Group 5	FKNLoad Group 5KVA KM	FR5-15-DIS	\$/kVA-km/Year	-	\$	0.35	\$	-	-	\$	0.35	\$	-
Load Group 5	FKNLoad Group 5CPD TOTAL	FR5-15-CPD	\$/kWh/Year	-	\$	50.16	\$	-	-	\$	42.42	\$	-
SUM						\$		4,252,437		\$		\$	3,777,631

Table N: Frankton street lighting prices				Distribution prices									
Load Group	Description	Code	Units	t-1 period				t period					
				Q _{t-1,2014}	DP _{t-1,2015}	DP _{t-1,2015}	Q _{t-1,2014}	Q _{t,2014}	DP _{t,2014}	DP _{t,2014}	Q _{t,2014}		
Street Lighting kWh FKN	Street Lighting kWh	210	\$/kWh	994,742	\$	0.0132	\$	13,131	994,742	\$	0.0130	\$	12,932
Street Lighting Lamps FKN	Street Lighting Lamps	FRSL	\$/lamp/Year	2,573	\$	13.56	\$	34,896	2,573	\$	13.56	\$	34,896
SUM						\$		48,026		\$		\$	47,827

Table O: Frankton non standard prices				Distribution prices									
Load Group	Description	Code	Units	t-1 period				t period					
				Q _{t-1,2014}	DP _{t-1,2015}	DP _{t-1,2015}	Q _{t-1,2014}	Q _{t,2014}	DP _{t,2014}	DP _{t,2014}	Q _{t,2014}		
Non standard	Generation	ICP AAE	\$/Year	1	\$	39,765	\$	39,765	1	\$	37,713	\$	37,713
Non standard	Non-Standard	ICP AAF	\$/Year	1	\$	81,991	\$	81,991	1	\$	83,176	\$	83,176
SUM						\$		121,756		\$		\$	120,889

Table 17 - Notional revenues by tariff - Frankton pricing area

Table P: Frankton sub area domestic fixed prices				Distribution prices									
Load Group	Description	Code	Units	I-1 period				I period					
				Q ₁ 2014	DP ₁ 2015	DP ₁ 2016	Q ₁ 2014	Q ₁ 2014	DP ₁ 2015	DP ₁ 2016	Q ₁ 2014		
Standard Domestic 15	FKN SUBStandard Domestic 15TOTAL	FKSD15	\$/Year	1,193	\$	54.73	\$	65,279	1,193	\$	54.73	\$	65,279
Standard Domestic 8	FKN SUBStandard Domestic 8TOTAL	FKSD8	\$/Year	-	\$	15.00	\$	-	-	\$	15.00	\$	-
SUM							\$	65,279			\$		65,279

Table Q: Frankton sub area variable prices				Distribution prices									
Load Group	Description	Code	Units	I-1 period				I period					
				Q1 2014	DP1 2015	DP1 2016	Q1 2014	Q1 2014	DP1 2014	DP1 2015	DP1 2016	Q1 2014	
Standard Domestic FKN Sub	General Purpose (Summer)	301S	\$/kWh	2,507,163	\$	0.0747	\$	187,285	2,507,163	\$	0.0704	\$	176,504
Standard Domestic FKN Sub	General Purpose (Winter)	301W	\$/kWh	3,590,582	\$	0.0939	\$	337,156	3,590,582	\$	0.0866	\$	310,944
Standard Domestic FKN Sub	Night + 5 hour other load	303	\$/kWh	523,993	\$	0.0288	\$	15,091	523,993	\$	0.0266	\$	13,938
Standard Domestic FKN Sub	Night + 3 hour other load	304	\$/kWh	156,709	\$	0.0176	\$	2,758	156,709	\$	0.0163	\$	2,554
Standard Domestic FKN Sub	Std Water Heating 16 hour	306	\$/kWh	2,546,339	\$	0.0197	\$	50,163	2,546,339	\$	0.0182	\$	46,343
Standard Domestic FKN Sub	Night rate	308	\$/kWh	117,145	\$	0.0127	\$	1,488	117,145	\$	0.0117	\$	1,371
Standard Domestic FKN Sub	Peak Water Heating 20 hour	309	\$/kWh	70,877	\$	0.0440	\$	3,119	70,877	\$	0.0407	\$	2,885
SUM							\$	597,059			\$	554,540	

Table R: Frankton sub area non-domestic fixed prices				Distribution prices									
Load Group	Description	Code	Units	I-1 period				I period					
				Q ₁ 2014	DP ₁ 2015	DP ₁ 2016	Q ₁ 2014	Q ₁ 2014	DP ₁ 2015	DP ₁ 2016	Q ₁ 2014		
Load Group 0	FKN SUBLoad Group 0TOTAL	FK0-L0-F	\$/Year	12	\$	137.43	\$	1,589	12	\$	127.40	\$	1,473
Load Group 0A	FKN SUBLoad Group 0ATOTAL	FK0A-L0A-F	\$/Year	6	\$	249.00	\$	1,596	6	\$	230.82	\$	1,480
Load Group 1	FKN SUBLoad Group 1ATOTAL	FK1A-L1A-F	\$/Year	12	\$	11.99	\$	141	12	\$	11.99	\$	141
Load Group 1	FKN SUBLoad Group 1ACAPACITY TOTAL	FK1A-L1A-CKVA	\$/kVA/Year	94	\$	18.98	\$	1,787	94	\$	17.29	\$	1,628
Load Group 1	FKN SUBLoad Group 1ACPD TOTAL	FK1A-L1A-CPD	\$/kWh/Year	11	\$	88.24	\$	1,003	11	\$	81.39	\$	925
Load Group 1A	FKN SUBLoad Group 1TOTAL	FK1-L1-F	\$/Year	117	\$	11.99	\$	1,398	117	\$	11.99	\$	1,398
Load Group 1A	FKN SUBLoad Group 1CAPACITY TOTAL	FK1-L1-CKVA	\$/kVA/Year	1,750	\$	17.89	\$	31,299	1,750	\$	16.20	\$	28,343
Load Group 1A	FKN SUBLoad Group 1CPD TOTAL	FK1-L1-CPD	\$/kWh/Year	356	\$	88.24	\$	31,401	356	\$	81.39	\$	28,964
Load Group 2	FKN SUBLoad Group 2TOTAL	FK2-L2-F	\$/Year	144	\$	17.54	\$	2,520	144	\$	17.54	\$	2,520
Load Group 2	FKN SUBLoad Group 2CAPACITY TOTAL	FK2-L2-CKVA	\$/kVA/Year	6,948	\$	19.16	\$	133,124	6,948	\$	16.93	\$	117,630
Load Group 2	FKN SUBLoad Group 2CPD TOTAL	FK2-L2-CPD	\$/kWh/Year	1,104	\$	95.42	\$	105,384	1,104	\$	85.05	\$	93,931
Load Group 3	FKN SUBLoad Group 3TOTAL	FK3-L3-F	\$/Year	8	\$	365.00	\$	2,920	8	\$	365.00	\$	2,920
Load Group 3	FKN SUBLoad Group 3CAPACITY TOTAL	FK3-L3-CKVA	\$/kVA/Year	1,554	\$	36.32	\$	56,441	1,554	\$	30.69	\$	47,692
Load Group 3	FKN SUBLoad Group 3KVA KM	FK3-L3-DIS	\$/kVA-km/Year	3,374	\$	0.35	\$	1,181	3,374	\$	0.35	\$	1,181
Load Group 3	FKN SUBLoad Group 3CPD TOTAL	FK3-L3-CPD	\$/kWh/Year	438	\$	60.06	\$	26,326	438	\$	49.42	\$	21,662
Load Group 3A	FKN SUBLoad Group 3ATOTAL	FK3A-L3A-F	\$/Year	7	\$	365.00	\$	2,555	7	\$	365.00	\$	2,555
Load Group 3A	FKN SUBLoad Group 3ACAPACITY TOTAL	FK3A-L3A-CKVA	\$/kVA/Year	2,326	\$	33.73	\$	78,456	2,326	\$	28.11	\$	65,384
Load Group 3A	FKN SUBLoad Group 3AKVA KM	FK3A-L3A-DIS	\$/kVA-km/Year	8,368	\$	0.35	\$	2,929	8,368	\$	0.35	\$	2,929
Load Group 3A	FKN SUBLoad Group 3ACPD TOTAL	FK3A-L3A-CPD	\$/kWh/Year	720	\$	60.06	\$	43,263	720	\$	49.42	\$	35,599
Load Group 4	FKN SUBLoad Group 4TOTAL	FK4-L4-F	\$/Year	5	\$	903.00	\$	4,518	5	\$	903.00	\$	4,518
Load Group 4	FKN SUBLoad Group 4CAPACITY TOTAL	FK4-L4-CKVA	\$/kVA/Year	2,753	\$	18.50	\$	50,929	2,753	\$	17.06	\$	46,965
Load Group 4	FKN SUBLoad Group 4KVA KM	FK4-L4-DIS	\$/kVA-km/Year	7,423	\$	0.35	\$	2,598	7,423	\$	0.35	\$	2,598
Load Group 4	FKN SUBLoad Group 4CPD TOTAL	FK4-L4-CPD	\$/kWh/Year	1,104	\$	53.81	\$	59,389	1,104	\$	47.81	\$	52,767
Load Group 5	FKN SUBLoad Group 5TOTAL	FK5-L5-F	\$/Year	-	\$	903.00	\$	-	-	\$	903.00	\$	-
Load Group 5	FKN SUBLoad Group 5CAPACITY TOTAL	FK5-L5-CKVA	\$/kVA/Year	-	\$	2.54	\$	-	-	\$	1.11	\$	-
Load Group 5	FKN SUBLoad Group 5KVA KM	FK5-L5-DIS	\$/kVA-km/Year	-	\$	0.35	\$	-	-	\$	0.35	\$	-
Load Group 5	FKN SUBLoad Group 5CPD TOTAL	FK5-L5-CPD	\$/kWh/Year	-	\$	38.87	\$	-	-	\$	32.88	\$	-
SUM							\$	642,747			\$	565,201	

Table S: Frankton sub area non standard prices				Distribution prices									
Load Group	Description	Code	Units	I-1 period				I period					
				Q ₁ 2014	DP ₁ 2015	DP ₁ 2016	Q ₁ 2014	Q ₁ 2014	DP ₁ 2015	DP ₁ 2016	Q ₁ 2014		
Non standard	Non-Standard	ICP AAG	\$/Year	1	\$	70.148	\$	70.148	1	\$	71.162	\$	71.162
SUM						\$	70.148				\$	71.162	

Table 18 - Notional revenues by tariff - Frankton pricing sub-area

Table T: Heritage domestic fixed prices				Distribution prices									
Load Group	Description	Code	Unit	I-1 period				I period					
				Q ₁ 2014	DP ₁ 2015	DP ₁ 2016	Q ₁ 2014	Q ₁ 2014	DP ₁ 2015	DP ₁ 2016	Q ₁ 2014		
Standard Domestic 15	HERITAGEStandard Domestic 15TOTAL	HESD15	\$/Year	84	\$	54.73	\$	4,608	84	\$	54.73	\$	4,608
Standard Domestic 8	HERITAGEStandard Domestic 8TOTAL	HESD8	\$/Year	2	\$	15.00	\$	30	2	\$	15.00	\$	30
SUM				\$ 4,638				\$ 4,638					

Table U: Heritage variable prices				Distribution prices									
Load Group	Description	Code	Units	I-1 period				I period					
				Q ₁ 2014	DP ₁ 2015	DP ₁ 2016	Q ₁ 2014	Q ₁ 2014	DP ₁ 2015	DP ₁ 2016	Q ₁ 2014		
Standard Domestic Heritage	General Purpose (Summer)	401S	\$/kWh	230,847	\$	0.0790	\$	18,237	230,847	\$	0.1030	\$	23,777
Standard Domestic Heritage	General Purpose (Winter)	401W	\$/kWh	191,512	\$	0.0969	\$	18,558	191,512	\$	0.1550	\$	29,684
Standard Domestic Heritage	Night + 3 hour other load	404	\$/kWh	4,085	\$	0.0286	\$	117	4,085	\$	0.0427	\$	174
Standard Domestic Heritage	Std Water Heating 16 hour	406	\$/kWh	104,526	\$	0.0312	\$	3,261	104,526	\$	0.0482	\$	5,038
Standard Domestic Heritage	Night Rate	408	\$/kWh	6,352	\$	0.0285	\$	181	6,352	\$	0.0285	\$	181
SUM							\$	40,354			\$	58,855	

Table V: Heritage non domestic fixed prices				Distribution prices									
Load Group	Description	Code	Units	I-1 period				I period					
				Q ₁ 2014	DP ₁ 2015	DP ₁ 2016	Q ₁ 2014	Q ₁ 2014	DP ₁ 2015	DP ₁ 2016	Q ₁ 2014		
Load Group 0	HERITAGELoad Group 0TOTAL	HE0-L0-F	\$/Year	-	\$	149.35	\$	-	-	\$	214.23	\$	-
Load Group 0A	HERITAGELoad Group 0ATOTAL	HE0A-L0A-F	\$/Year	2	\$	279.08	\$	660	2	\$	442.39	\$	1,046
Load Group 1	HERITAGELoad Group 1ATOTAL	HE1A-L1A-F	\$/Year	1	\$	10.72	\$	11	1	\$	10.72	\$	11
Load Group 1	HERITAGELoad Group 1ACAPACITY TOTAL	HE1A-L1A-CKVA	\$/kVA/Year	8	\$	25.41	\$	203	8	\$	26.95	\$	216
Load Group 1	HERITAGELoad Group 1ACPD TOTAL	HE1A-L1A-CPD	\$/kWh/Year	1	\$	135.94	\$	129	1	\$	234.71	\$	223
Load Group 1A	HERITAGELoad Group 1TOTAL	HE1-L1-F	\$/Year	0	\$	10.72	\$	3	0	\$	10.72	\$	3
Load Group 1A	HERITAGELoad Group 1CAPACITY TOTAL	HE1-L1-CKVA	\$/kVA/Year	5	\$	23.81	\$	107	5	\$	24.09	\$	108
Load Group 1A	HERITAGELoad Group 1CPD TOTAL	HE1-L1-CPD	\$/kWh/Year	0	\$	135.94	\$	49	0	\$	234.71	\$	84
Load Group 2	HERITAGELoad Group 2TOTAL	HE2-L2-F	\$/Year	1	\$	22.51	\$	23	1	\$	22.51	\$	23
Load Group 2	HERITAGELoad Group 2CAPACITY TOTAL	HE2-L2-CKVA	\$/kVA/Year	24	\$	22.43	\$	538	24	\$	22.59	\$	542
Load Group 2	HERITAGELoad Group 2CPD TOTAL	HE2-L2-CPD	\$/kWh/Year	1	\$	135.31	\$	68	1	\$	226.80	\$	115
SUM						\$	1,792				\$	2,371	

Table W: Heritage street lighting prices				Distribution prices									
Load Group	Description	Code	Units	I-1 period				I period					
				Q ₁ 2014		DP ₁ 2015		DP ₁ 2016	Q ₁ 2014	Q ₁ 2014	DP ₁ 2015	DP ₁ 2016	Q ₁ 2014
Street Lighting kWh	Street Lighting kWh	410	\$/kWh	26,789	\$	0.0467	\$	1,251	26,789	\$	0.0668	\$	1,790
Street Lighting Lamps	Street Lighting Lamps	HESL	\$/lamp/Year	81	\$	13.56	\$	1,098	81	\$	13.56	\$	1,098
SUM						\$	2,349				\$	2,888	

Table 19 - Notional revenues by tariff - Heritage Estate pricing area

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AE-S017	Aurora Energy	Commercial Mgr	GM AM	8/6/2016	1.0	22 of 42

APPENDIX E Price and Quantity Schedules – Pass-through

Area	Description	Pass-through National Revenue		Pass-through National Revenue		Pass-through National Revenue		Reference table
		Reported Quantities		Projected Quantities (when prices were determined)		Variance		
		PTP _{1,2016}	Q _{1,2016}	PTP _{1,2016}	Q _{1,2016}	PTP _{1,2016}	Q _{1,2016}	
Dunedin	Domestic fixed prices	\$	-	\$	-	\$	-	X
	Variable prices	\$	11,505,977	\$	11,166,917	\$	339,060	Y
	Non domestic fixed prices	\$	9,297,171	\$	9,311,903	\$	14,732	Z
	Street lighting prices	\$	132,796	\$	132,796		-	AA
	Non-standard prices	\$	-	\$	-	\$	-	AB
	Sub-total	\$	20,935,944	\$	20,611,616	\$	324,328	
Clyde/Cromwell	Domestic fixed prices	\$	-	\$	-	\$	-	AC
	Variable prices	\$	2,926,286	\$	2,809,911	\$	116,375	AD
	Non domestic fixed prices	\$	1,991,041	\$	1,959,272	\$	31,768	AE
	Street lighting prices	\$	25,632	\$	26,370	\$	738	AF
	Non-standard prices	\$	-	\$	-	\$	-	AG
	Sub-total	\$	4,942,958	\$	4,795,553	\$	147,405	
Frankton	Domestic fixed prices	\$	-	\$	-	\$	-	AH
	Variable prices	\$	3,020,289	\$	2,790,310	\$	229,979	AI
	Non domestic fixed prices	\$	2,629,912	\$	2,608,005	\$	21,906	AJ
	Street lighting prices	\$	21,276	\$	21,417	\$	141	AK
	Non-standard prices	\$	129,998	\$	129,998	\$	-	AL
	Sub-total	\$	5,801,475	\$	5,549,731	\$	251,744	
Frankton Sub Area	Domestic fixed prices	\$	-	\$	-	\$	-	AM
	Variable prices	\$	382,785	\$	362,583	\$	20,202	AN
	Non domestic fixed prices	\$	546,806	\$	491,372	\$	55,434	AO
	Non-standard prices	\$	61,371	\$	61,371	\$	-	AP
	Sub-total	\$	990,962	\$	915,326	\$	75,637	
Heritage	Domestic fixed prices	\$	-	\$	-	\$	-	AQ
	Variable prices	\$	-	\$	-	\$	-	AR
	Non domestic fixed prices	\$	-	\$	-	\$	-	AS
	Street lighting prices	\$	-	\$	-	\$	-	AT
	Sub-total	\$	-	\$	-	\$	-	
All	Total	\$	32,671,339	\$	31,872,226	\$	799,113	

Table 20 - Summary of pass-through revenues

Table X: Dunedin standard domestic fixed prices				Pass-through prices (1 period)									
Load Group	Description	Code	Units	Reported Quantities				Projected Quantities (when prices were determined)				Variance	
				Q _L 2016	PTP _L 2016	PTP _L 2016	Q _L 2016	Q _L 2016	PTP _L 2016	PTP _L 2016	Q _L 2016	PTP _L 2016	
Standard Domestic 1S	HWB/SDN/Standard Domestic 1S TOTAL	SHD1S	\$/Year	46,943	\$	-	-	46,831	\$	-	-	\$	-
Standard Domestic 8	HWB/SDN/Standard Domestic 8 TOTAL	SHD8	\$/Year	553	\$	-	-	548	\$	-	-	\$	-
SUM						\$	-			\$	-	\$	-

Table Y: Dunedin variable prices				Pass-through prices (1 period)									
Load Group	Description	Code	Units	Reported Quantities				Projected Quantities (when prices were determined)				Variance	
				Q _L 2016	PTP _L 2016	PTP _L 2016	Q _L 2016	Q _L 2016	PTP _L 2016	PTP _L 2016	Q _L 2016	PTP _L 2016	
Standard Domestic DN	General Purpose (Summer)	O10S	\$/kWh	10,318,035	\$	0.0230	\$	237,315	10,027,199	\$	0.0230	\$	230,426
Standard Domestic DN	General Purpose (Winter)	O10W	\$/kWh	12,948,204	\$	0.0568	\$	736,594	10,533,005	\$	0.0568	\$	698,276
Standard Domestic DN	Seasonal Day (Summer)	O11S	\$/kWh	1,013,329	\$	0.0227	\$	23,003	977,988	\$	0.0227	\$	22,200
Standard Domestic DN	Seasonal Day (Winter)	O11W	\$/kWh	1,284,369	\$	0.0588	\$	74,345	1,249,069	\$	0.0588	\$	73,445
Standard Domestic DN	Seasonal Night (Summer)	O12S	\$/kWh	1,448,941	\$	-	-	-	554,536	\$	-	-	-
Standard Domestic DN	Seasonal Night (Winter)	O12W	\$/kWh	-	\$	-	-	-	901,522	\$	-	-	-
Standard Domestic DN	General Purpose & 16 hour Water Heat (Summer)	O17S	\$/kWh	165,744,116	\$	0.0223	\$	3,696,094	171,951,870	\$	0.0223	\$	3,634,527
Standard Domestic DN	General Purpose & 16 hour Water Heat (Winter)	O17W	\$/kWh	198,329,517	\$	0.0339	\$	6,723,371	186,535,117	\$	0.0339	\$	6,391,340
Standard Domestic DN	Night + 3 hour other load	24	\$/kWh	2,084,632	\$	0.0073	\$	15,218	2,260,826	\$	0.0073	\$	16,504
Standard Domestic DN	Night Rate	28	\$/kWh	4,049,369	\$	-	-	-	3,933,276	\$	-	-	-
Unmetered Supply DN	Unmetered Supply Variable	30	\$/kWh	1,986	\$	0.0194	\$	39	-	\$	0.0194	\$	-
SUM						\$	11,505,977			\$	11,166,917	\$	339,060

Table Z: Dunedin non-domestic fixed prices				Pass-through prices (1 period)									
Load Group	Description	Code	Units	Reported Quantities				Projected Quantities (when prices were determined)				Variance	
				Q _L 2016	PTP _L 2016	PTP _L 2016	Q _L 2016	Q _L 2016	PTP _L 2016	PTP _L 2016	Q _L 2016	PTP _L 2016	
Unmetered Supply	HWB/SDN/Unmetered Supply	SHD/UM	\$/Year	-	\$	-	-	-	-	\$	-	-	-
Load Group 0	HWB/SDN/Load Group 0 TOTAL	SHD-L0-F	\$/Year	122	\$	87.72	\$	10,658	139	\$	87.72	\$	12,193
Load Group 0A	HWB/SDN/Load Group 0A TOTAL	SHD-A-L0-F	\$/Year	112	\$	189.45	\$	21,250	127	\$	189.45	\$	23,968
Load Group 1A	HWB/SDN/Load Group 1A TOTAL	SH1A-L1A-F	\$/Year	401	\$	-	-	-	399	\$	-	-	-
Load Group 1A	HWB/SDN/Load Group 1A CAPACITY TOTAL	SH1A-L1A-CKVA	\$/kVA/Year	3,219	\$	10.07	\$	32,414	3,199	\$	10.07	\$	32,217
Load Group 1A	HWB/SDN/Load Group 1A CPD TOTAL	SH1A-L1A-CPD	\$/kWh/Year	378	\$	107.00	\$	40,491	367	\$	107.00	\$	39,241
Load Group 1	HWB/SDN/Load Group 1 TOTAL	SH1-L1-F	\$/Year	3,039	\$	-	-	-	2,945	\$	-	-	-
Load Group 1	HWB/SDN/Load Group 1 CAPACITY TOTAL	SH1-L1-CKVA	\$/kVA/Year	45,597	\$	8.70	\$	396,694	44,204	\$	8.70	\$	384,571
Load Group 1	HWB/SDN/Load Group 1 CPD TOTAL	SH1-L1-CPD	\$/kWh/Year	7,126	\$	107.00	\$	762,464	6,845	\$	107.00	\$	734,503
Load Group 2	HWB/SDN/Load Group 2 TOTAL	SH2-L2-F	\$/Year	3,046	\$	-	-	-	3,026	\$	-	-	-
Load Group 2	HWB/SDN/Load Group 2 CAPACITY TOTAL	SH2-L2-CKVA	\$/kVA/Year	154,163	\$	3.55	\$	547,351	152,805	\$	3.55	\$	542,458
Load Group 2	HWB/SDN/Load Group 2 CPD TOTAL	SH2-L2-CPD	\$/kWh/Year	23,972	\$	107.00	\$	2,565,022	23,702	\$	107.00	\$	2,536,121
Load Group 3	HWB/SDN/Load Group 3 TOTAL	SH3-L3-F	\$/Year	105	\$	-	-	-	101	\$	-	-	-
Load Group 3	HWB/SDN/Load Group 3 CAPACITY TOTAL	SH3-L3-CKVA	\$/kVA/Year	20,597	\$	6.10	\$	125,641	19,866	\$	6.10	\$	121,183
Load Group 3	HWB/SDN/Load Group 3 KVA KM	SH3-L3-DIS	\$/kVA-km/Year	113,514	\$	-	-	-	108,373	\$	-	-	-
Load Group 3	HWB/SDN/Load Group 3 CPD TOTAL	SH3-L3-CPD	\$/kWh/Year	5,875	\$	106.50	\$	625,732	5,484	\$	106.50	\$	584,075
Load Group 3A	HWB/SDN/Load Group 3A TOTAL	SH3A-L3A-F	\$/Year	68	\$	-	-	-	67	\$	-	-	-
Load Group 3A	HWB/SDN/Load Group 3A CAPACITY TOTAL	SH3A-L3A-CKVA	\$/kVA/Year	27,338	\$	6.10	\$	166,759	27,118	\$	6.10	\$	166,420
Load Group 3A	HWB/SDN/Load Group 3A KVA KM	SH3A-L3A-DIS	\$/kVA-km/Year	147,189	\$	-	-	-	147,768	\$	-	-	-
Load Group 3A	HWB/SDN/Load Group 3A CPD TOTAL	SH3A-L3A-CPD	\$/kWh/Year	8,757	\$	106.50	\$	932,665	8,415	\$	106.50	\$	896,174
Load Group 4	HWB/SDN/Load Group 4 TOTAL	SH4-L4-F	\$/Year	75	\$	-	-	-	78	\$	-	-	-
Load Group 4	HWB/SDN/Load Group 4 CAPACITY TOTAL	SH4-L4-CKVA	\$/kVA/Year	56,715	\$	7.70	\$	436,702	56,650	\$	7.70	\$	451,626
Load Group 4	HWB/SDN/Load Group 4 KVA KM	SH4-L4-DIS	\$/kVA-km/Year	315,786	\$	-	-	-	323,527	\$	-	-	-
Load Group 4	HWB/SDN/Load Group 4 CPD TOTAL	SH4-L4-CPD	\$/kWh/Year	16,543	\$	106.50	\$	1,761,803	16,670	\$	106.50	\$	1,775,369
Load Group 5	HWB/SDN/Load Group 5 TOTAL	SH5-L5-F	\$/Year	7	\$	-	-	-	8	\$	-	-	-
Load Group 5	HWB/SDN/Load Group 5 CAPACITY TOTAL	SH5-L5-CKVA	\$/kVA/Year	25,627	\$	5.30	\$	135,824	30,425	\$	5.30	\$	162,313
Load Group 5	HWB/SDN/Load Group 5 KVA KM	SH5-L5-DIS	\$/kVA-km/Year	156,401	\$	-	-	-	224,954	\$	-	-	-
Load Group 5	HWB/SDN/Load Group 5 CPD TOTAL	SH5-L5-CPD	\$/kWh/Year	6,908	\$	106.50	\$	735,702	7,986	\$	106.50	\$	850,491
Other Charges	HWB/SDN/Load Group OTHER TOTAL	OC	\$	404	\$	-	-	-	521	\$	-	-	-
Transformer Charges	HWB/SDN/Load Group TRANS TOTAL	TC	\$	56,246	\$	-	-	-	62,725	\$	-	-	-
SUM						\$	9,297,171			\$	9,311,903	\$	14,732

Table AA: Dunedin street lighting prices				Pass-through prices (1 period)									
Load Group	Description	Code	Units	Reported Quantities				Projected Quantities (when prices were determined)				Variance	
				Q _L 2016	PTP _L 2016	PTP _L 2016	Q _L 2016	Q _L 2016	PTP _L 2016	PTP _L 2016	Q _L 2016	PTP _L 2016	
Street Lighting	Street Lighting	SDN/SL	\$/Year	1	\$	44,892	\$	44,892	1	\$	44,892	\$	-
Street Lighting	Street Lighting	HW/SL	\$/Year	1	\$	87,904	\$	87,904	1	\$	87,904	\$	-
SUM						\$	132,796			\$	132,796	\$	-

Table AB: Dunedin non-standard prices				Pass-through prices (1 period)									
Load Group	Description	Code	Units	Reported Quantities				Projected Quantities (when prices were determined)				Variance	
				Q _L 2016	PTP _L 2016	PTP _L 2016	Q _L 2016	Q _L 2016	PTP _L 2016	PTP _L 2016	Q _L 2016	PTP _L 2016	
Non-standard	Generation	ICP AAA	\$/Year	1	\$	-	-	-	1	\$	-	-	-
SUM						\$	-			\$	-	\$	-

Table 21 - Pass-through revenues by tariff - Dunedin pricing area

Table AC: Clyde/Cromwell domestic fixed prices				Pass-through prices (1 period)									
Load Group	Description	Code	Units	Reported Quantities				Projected Quantities (when prices were determined)				Variance	
				Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014}	Q _{1,2014}	Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014}	Q _{1,2014}	PTP _{1,2014}	
Standard Domestic 15	CYD/CMLStandard Domestic 15TOTAL	CCSD15	\$/Year	14,517	\$	-	-	14,137	\$	-	-	\$	-
Standard Domestic 8	CYD/CMLStandard Domestic 8TOTAL	CCSD8	\$/Year	67	\$	-	-	58	\$	-	-	\$	-
SUM					\$	-	-		\$	-	-	\$	-

Table AD: Clyde/Cromwell variable prices				Pass-through prices (1 period)										
Load Group	Description	Code	Units	Reported Quantities				Projected Quantities (when prices were determined)				Variance		
				Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014}	Q _{1,2014}	Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014}	Q _{1,2014}	PTP _{1,2014}		
Standard Domestic CYD/CML	General Purpose (Summer)	10IS	\$/kWh	33,694,857	\$	0.0206	\$	33,226,962	\$	0.0206	\$	684,475	\$	9,639
Standard Domestic CYD/CML	General Purpose (Winter)	10IW	\$/kWh	39,495,584	\$	0.0466	\$	36,973,213	\$	0.0466	\$	1,722,952	\$	117,542
Standard Domestic CYD/CML	Night + 5 hour other load	103	\$/kWh	701,442	\$	0.0210	\$	709,267	\$	0.0210	\$	14,895	\$	164
Standard Domestic CYD/CML	Night + 3 hour other load	104	\$/kWh	2,262,484	\$	0.0111	\$	2,322,123	\$	0.0111	\$	25,776	\$	662
Standard Domestic CYD/CML	Std Water Heating 16 hour	106	\$/kWh	23,560,277	\$	0.0146	\$	24,261,402	\$	0.0146	\$	354,216	\$	10,236
Standard Domestic CYD/CML	Night rate	108	\$/kWh	1,123,285	\$	-	-	1,183,647	\$	-	-	-	\$	-
Standard Domestic CYD/CML	Peak Water Heating 20 hour	109	\$/kWh	316,677	\$	0.0248	\$	7,854	\$	0.0248	\$	7,597	\$	254
SUM					\$	2,926,286			\$	2,809,911		\$	116,375	

Table AE: Clyde/Cromwell non-domestic fixed prices				Pass-through prices (1 period)										
Load Group	Description	Code	Units	Reported Quantities				Projected Quantities (when prices were determined)				Variance		
				Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014}	Q _{1,2014}	Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014}	Q _{1,2014}	PTP _{1,2014}		
Load Group 0	CYD/CMLLoad Group 0TOTAL	CC0-L0-F	\$/Year	123	\$	64.94	\$	121	\$	64.94	\$	7,864	\$	91
Load Group 0A	CYD/CMLLoad Group 0ATOTAL	CC0A-L0A-F	\$/Year	244	\$	163.43	\$	242	\$	163.43	\$	39,524	\$	353
Load Group 1A	CYD/CMLLoad Group 1ATOTAL	CC1A-L1A-F	\$/Year	254	\$	-	-	245	\$	-	-	-	\$	-
Load Group 1A	CYD/CMLLoad Group 1ACAPACITYTOTAL	CC1A-L1A-CKVA	\$/kVA/Year	2,034	\$	3.49	\$	1,957	\$	3.49	\$	6,830	\$	268
Load Group 1A	CYD/CMLLoad Group 1ACPD TOTAL	CC1A-L1A-CPD	\$/kWh/Year	231	\$	99.00	\$	222	\$	99.00	\$	21,952	\$	933
Load Group 1	CYD/CMLLoad Group 1TOTAL	CC1-L1-F	\$/Year	1,677	\$	-	-	1,670	\$	-	-	-	\$	-
Load Group 1	CYD/CMLLoad Group 1CAPACITYTOTAL	CC1-L1-CKVA	\$/kVA/Year	25,187	\$	2.30	\$	25,035	\$	2.30	\$	57,580	\$	349
Load Group 1	CYD/CMLLoad Group 1CPD TOTAL	CC1-L1-CPD	\$/kWh/Year	3,140	\$	99.00	\$	3,230	\$	99.00	\$	319,730	\$	8,895
Load Group 2	CYD/CMLLoad Group 2TOTAL	CC2-L2-F	\$/Year	1,629	\$	-	-	1,572	\$	-	-	-	\$	-
Load Group 2	CYD/CMLLoad Group 2CAPACITYTOTAL	CC2-L2-CKVA	\$/kVA/Year	84,261	\$	0.55	\$	80,555	\$	0.55	\$	44,305	\$	2,038
Load Group 2	CYD/CMLLoad Group 2CPD TOTAL	CC2-L2-CPD	\$/kWh/Year	9,148	\$	90.20	\$	9,339	\$	90.20	\$	842,371	\$	17,229
Load Group 3	CYD/CMLLoad Group 3TOTAL	CC3-L3-F	\$/Year	71	\$	-	-	65	\$	-	-	-	\$	-
Load Group 3	CYD/CMLLoad Group 3CAPACITYTOTAL	CC3-L3-CKVA	\$/kVA/Year	13,201	\$	0.98	\$	12,937	\$	0.98	\$	11,871	\$	1,066
Load Group 3	CYD/CMLLoad Group 3KVA KM	CC3-L3-DIS	\$/kVA.km/Year	449,006	\$	-	-	420,770	\$	-	-	-	\$	-
Load Group 3	CYD/CMLLoad Group 3CPD TOTAL	CC3-L3-CPD	\$/kWh/Year	1,912	\$	97.00	\$	1,860	\$	97.00	\$	180,420	\$	5,036
Load Group 3A	CYD/CMLLoad Group 3ATOTAL	CC3A-L3A-F	\$/Year	43	\$	-	-	36	\$	-	-	-	\$	-
Load Group 3A	CYD/CMLLoad Group 3ACAPACITYTOTAL	CC3A-L3A-CKVA	\$/kVA/Year	12,522	\$	0.98	\$	10,751	\$	0.98	\$	10,536	\$	1,735
Load Group 3A	CYD/CMLLoad Group 3AKVA KM	CC3A-L3A-DIS	\$/kVA.km/Year	361,179	\$	-	-	306,821	\$	-	-	-	\$	-
Load Group 3A	CYD/CMLLoad Group 3ACPD TOTAL	CC3A-L3A-CPD	\$/kWh/Year	1,782	\$	97.00	\$	1,797	\$	97.00	\$	174,348	\$	1,453
Load Group 4	CYD/CMLLoad Group 4TOTAL	CC4-L4-F	\$/Year	24	\$	-	-	18	\$	-	-	-	\$	-
Load Group 4	CYD/CMLLoad Group 4CAPACITYTOTAL	CC4-L4-CKVA	\$/kVA/Year	15,872	\$	1.80	\$	28,549	\$	1.80	\$	22,968	\$	5,601
Load Group 4	CYD/CMLLoad Group 4KVA KM	CC4-L4-DIS	\$/kVA.km/Year	646,904	\$	-	-	556,090	\$	-	-	-	\$	-
Load Group 4	CYD/CMLLoad Group 4CPD TOTAL	CC4-L4-CPD	\$/kWh/Year	2,644	\$	97.00	\$	256,468	\$	2,257	\$	218,973	\$	37,495
Load Group 5	CYD/CMLLoad Group 5TOTAL	CC5-L5-F	\$/Year	1	\$	-	-	-	\$	-	-	-	\$	-
Load Group 5	CYD/CMLLoad Group 5CAPACITYTOTAL	CC5-L5-CKVA	\$/kVA/Year	1,458	\$	1.80	\$	2,625	\$	1.80	\$	-	\$	2,625
Load Group 5	CYD/CMLLoad Group 5KVA KM	CC5-L5-DIS	\$/kVA.km/Year	86,494	\$	-	-	-	\$	-	-	-	\$	-
Load Group 5	CYD/CMLLoad Group 5CPD TOTAL	CC5-L5-CPD	\$/kWh/Year	18	\$	97.00	\$	1,754	\$	97.00	\$	-	\$	1,754
Other Charges	CYD/CMLLoad Group OTHER TOTAL	OC-CEN	\$	830	\$	-	-	855	\$	-	-	-	\$	-
Transformer Charges	CYD/CMLLoad Group TRANS TOTAL	TC-CEN	\$	25,229	\$	-	-	19,516	\$	-	-	-	\$	-
SUM					\$	1,991,041			\$	1,959,272		\$	31,768	

Table AF: Clyde/Cromwell steel lighting prices				Pass-through prices (1 period)										
Load Group	Description	Code	Units	Reported Quantities				Projected Quantities (when prices were determined)				Variance		
				Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014}	Q _{1,2014}	Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014}	Q _{1,2014}	PTP _{1,2014}		
Street Lighting kWh CYD/CML	Street Lighting kWh	110	\$/kWh	1,779,992	\$	0.0144	\$	1,831,235	\$	0.0144	\$	26,370	\$	738
Street Lighting Lamps CYD/CML	Street Lighting Lamps	CCSTL	\$/lamp/Year	3,865	\$	-	-	3,844	\$	-	-	-	\$	-
SUM					\$	25,632			\$	26,370		\$	738	

Table AG: Clyde/Cromwell non standard prices				Pass-through prices (1 period)										
Load Group	Description	Code	Units	Reported Quantities				Projected Quantities (when prices were determined)				Variance		
				Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014}	Q _{1,2014}	Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014}	Q _{1,2014}	PTP _{1,2014}		
Non standard	Generation	ICP AAB	\$/Year	1	\$	-	-	1	\$	-	-	-	\$	-
Non standard	Generation	ICP AAC	\$/Year	1	\$	-	-	1	\$	-	-	-	\$	-
SUM					\$	-	-		\$	-	-	\$	-	

Table 22 - Pass-through revenues by tariff - Clyde/Cromwell pricing area

Table A1: Frankton domestic fixed prices				Pass-through prices (1 period)						
Load Group	Description	Code	Units	Reported Quantities			Projected Quantities (when prices were determined)			Variance
				Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014} Q _{1,2014}	Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014} Q _{1,2014}	
Standard Domestic 15	FKNStandard Domestic 15TOTAL	FRSD15	\$/Year	8,554	\$	-	8,367	\$	-	\$
Standard Domestic 8	FKNStandard Domestic 8TOTAL	FRSD8	\$/Year	87	\$	-	83	\$	-	\$
SUM					\$	-		\$	-	\$

Table A2: Frankton variable prices				Pass-through prices (1 period)						
Load Group	Description	Code	Units	Reported Quantities			Projected Quantities (when prices were determined)			Variance
				Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014} Q _{1,2014}	Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014} Q _{1,2014}	
Standard Domestic FKN	General Purpose (Summer)	201S	\$/kWh	23,362,208	\$	0.0264	22,201,180	\$	0.0264	\$
Standard Domestic FKN	General Purpose (Winter)	201W	\$/kWh	33,914,895	\$	0.0586	30,379,457	\$	0.0586	\$
Standard Domestic FKN	Night + 3 hour other load	203	\$/kWh	1,566,368	\$	0.0221	1,830,152	\$	0.0221	\$
Standard Domestic FKN	Night + 3 hour other load	204	\$/kWh	1,220,821	\$	0.0116	1,578,955	\$	0.0116	\$
Standard Domestic FKN	Std Water Heating 16 hour	206	\$/kWh	20,275,340	\$	0.0177	20,110,599	\$	0.0177	\$
Standard Domestic FKN	Night rate	208	\$/kWh	987,410	\$	-	961,720	\$	-	\$
Standard Domestic FKN	Peak Water Heating 20 hour	209	\$/kWh	308,965	\$	0.0253	365,325	\$	0.0253	\$
SUM					\$	3,020,289		\$	2,790,310	\$

Table A3: Frankton non-domestic fixed prices				Pass-through prices (1 period)						
Load Group	Description	Code	Units	Reported Quantities			Projected Quantities (when prices were determined)			Variance
				Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014} Q _{1,2014}	Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014} Q _{1,2014}	
Load Group 0	FKNLoad Group 0TOTAL	FRD-LG-F	\$/Year	82	\$	80.04	85	\$	80.04	\$
Load Group 0A	FKNLoad Group 0ATOTAL	FRD-LG-A-F	\$/Year	128	\$	181.24	142	\$	181.24	\$
Load Group 1A	FKNLoad Group 1ATOTAL	FR1A-L1A-F	\$/Year	134	\$	-	135	\$	-	\$
Load Group 1A	FKNLoad Group 1ACAPACITYTOTAL	FR1A-L1A-CKVA	\$/kVA/Year	1,070	\$	13.77	1,472	\$	13.77	\$
Load Group 1A	FKNLoad Group 1ACPD TOTAL	FR1A-L1A-CPD	\$/kWh/Year	143	\$	97.50	138	\$	97.50	\$
Load Group 1	FKNLoad Group 1TOTAL	FR1-L1-F	\$/Year	836	\$	-	836	\$	-	\$
Load Group 1	FKNLoad Group 1CAPACITYTOTAL	FR1-L1-CKVA	\$/kVA/Year	12,541	\$	13.10	12,570	\$	13.10	\$
Load Group 1	FKNLoad Group 1CPD TOTAL	FR1-L1-CPD	\$/kWh/Year	2,416	\$	97.50	2,419	\$	97.50	\$
Load Group 2	FKNLoad Group 2TOTAL	FR2-L2-F	\$/Year	1,273	\$	-	1,238	\$	-	\$
Load Group 2	FKNLoad Group 2CAPACITYTOTAL	FR2-L2-CKVA	\$/kVA/Year	60,327	\$	4.05	59,053	\$	4.05	\$
Load Group 2	FKNLoad Group 2CPD TOTAL	FR2-L2-CPD	\$/kWh/Year	9,947	\$	97.50	9,793	\$	97.50	\$
Load Group 3	FKNLoad Group 3TOTAL	FR3-L3-F	\$/Year	22	\$	-	22	\$	-	\$
Load Group 3	FKNLoad Group 3CAPACITYTOTAL	FR3-L3-CKVA	\$/kVA/Year	4,184	\$	11.20	4,183	\$	11.20	\$
Load Group 3	FKNLoad Group 3KVA KM	FR3-L3-DIS	\$/kVA-km/Year	62,422	\$	-	62,178	\$	-	\$
Load Group 3	FKNLoad Group 3CPD TOTAL	FR3-L3-CPD	\$/kWh/Year	919	\$	96.30	940	\$	96.30	\$
Load Group 3A	FKNLoad Group 3ATOTAL	FR3A-L3A-F	\$/Year	27	\$	-	24	\$	-	\$
Load Group 3A	FKNLoad Group 3ACAPACITYTOTAL	FR3A-L3A-CKVA	\$/kVA/Year	8,156	\$	11.20	7,418	\$	11.20	\$
Load Group 3A	FKNLoad Group 3AKVA KM	FR3A-L3A-DIS	\$/kVA-km/Year	113,261	\$	-	106,097	\$	-	\$
Load Group 3A	FKNLoad Group 3ACPD TOTAL	FR3A-L3A-CPD	\$/kWh/Year	2,119	\$	96.30	2,005	\$	96.30	\$
Load Group 4	FKNLoad Group 4TOTAL	FR4-L4-F	\$/Year	16	\$	-	16	\$	-	\$
Load Group 4	FKNLoad Group 4CAPACITYTOTAL	FR4-L4-CKVA	\$/kVA/Year	10,750	\$	12.10	10,759	\$	12.10	\$
Load Group 4	FKNLoad Group 4KVA KM	FR4-L4-DIS	\$/kVA-km/Year	126,395	\$	-	126,497	\$	-	\$
Load Group 4	FKNLoad Group 4CPD TOTAL	FR4-L4-CPD	\$/kWh/Year	4,120	\$	96.30	4,247	\$	96.30	\$
Load Group 5	FKNLoad Group 5TOTAL	FR5-L5-F	\$/Year	-	\$	-	-	\$	-	\$
Load Group 5	FKNLoad Group 5CAPACITYTOTAL	FR5-L5-CKVA	\$/kVA/Year	-	\$	16.62	-	\$	16.62	\$
Load Group 5	FKNLoad Group 5KVA KM	FR5-L5-DIS	\$/kVA-km/Year	-	\$	-	-	\$	-	\$
Load Group 5	FKNLoad Group 5CPD TOTAL	FR5-L5-CPD	\$/kWh/Year	-	\$	96.30	-	\$	96.30	\$
SUM					\$	2,629,912		\$	2,608,005	\$

Table A4: Frankton street lighting prices				Pass-through prices (1 period)						
Load Group	Description	Code	Units	Reported Quantities			Projected Quantities (when prices were determined)			Variance
				Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014} Q _{1,2014}	Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014} Q _{1,2014}	
Street Lighting kWh FKN	Street Lighting kWh	210	\$/kWh	1,096,689	\$	0.0194	1,103,980	\$	0.0194	\$
Street Lighting Lamps FKN	Street Lighting Lamps	FRSL	\$/lamp/Year	2,601	\$	-	2,596	\$	-	\$
SUM					\$	21,274		\$	21,417	\$

Table A5: Frankton non standard prices				Pass-through prices (1 period)						
Load Group	Description	Code	Units	Reported Quantities			Projected Quantities (when prices were determined)			Variance
				Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014} Q _{1,2014}	Q _{1,2014}	PTP _{1,2014}	PTP _{1,2014} Q _{1,2014}	
Non standard	Generation	ICP-AAE	\$/Year	1	\$	-	1	\$	-	\$
Non standard	Non-Standard	ICP-AAF	\$/Year	1	\$	129,998	1	\$	129,998	\$
SUM					\$	129,998		\$	129,998	\$

Table 23 - Pass-through revenues by tariff - Frankton pricing area

Table AM: Frankton sub-area domestic fixed prices				Pass-through prices (1 period)						
Load Group	Description	Code	Units	Reported Quantities			Projected Quantities (when prices were determined)			Variance
				Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014 Q ₁ 2014	Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014 Q ₁ 2014	PTP ₁ 2014 Q ₁ 2014
Standard Domestic 15	FRN SUBStandard Domestic 15TOTAL	FKSD15	\$/Year	1,223	\$	-	1,198	\$	-	\$
Standard Domestic 8	FRN SUBStandard Domestic 8TOTAL	FKSD8	\$/Year	1	\$	-	1	\$	-	\$
SUM					\$	-		\$	-	\$

Table AN: Frankton sub-area variable prices				Pass-through prices (1 period)									
Load Group	Description	Code	Units	Reported Quantities				Projected Quantities (when prices were determined)				Variance	
				Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014	Q ₁ 2014	Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014	Q ₁ 2014	PTP ₁ 2014	Q ₁ 2014
Standard Domestic FRN Sub	General Purpose (Summer)	301S	\$/kWh	2,892,196	\$	0.0264	76,354	2,884,899	\$	0.0264	74,161	\$	193
Standard Domestic FRN Sub	General Purpose (Winter)	301W	\$/kWh	4,170,276	\$	0.0586	244,378	3,947,613	\$	0.0586	231,330	\$	13,048
Standard Domestic FRN Sub	Night + 5 hour other load	303	\$/kWh	611,389	\$	0.0221	13,512	237,818	\$	0.0221	5,254	\$	8,258
Standard Domestic FRN Sub	Night + 3 hour other load	304	\$/kWh	154,256	\$	0.0116	1,789	205,174	\$	0.0116	2,380	\$	591
Standard Domestic FRN Sub	Std Water Heating 16 hour	306	\$/kWh	2,504,565	\$	0.0177	44,331	2,613,243	\$	0.0177	46,254	\$	1,924
Standard Domestic FRN Sub	Night rate	308	\$/kWh	136,722	\$	-	-	124,967	\$	-	-	\$	-
Standard Domestic FRN Sub	Peak Water Heating 20 hour	309	\$/kWh	95,695	\$	0.0253	2,421	47,471	\$	0.0253	1,201	\$	1,220
SUM					\$		362,785		\$	362,583		\$	20,202

Table AO: Frankton sub-area non-domestic fixed prices				Pass-through prices (1 period)									
Load Group	Description	Code	Units	Reported Quantities			Projected Quantities (when prices were determined)			Variance			
				Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014 Q ₁ 2014	Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014 Q ₁ 2014	PTP ₁ 2014 Q ₁ 2014	PTP ₁ 2014 Q ₁ 2014		
Load Group 0	FRN SUBLoad Group 0TOTAL	FK0-L0-F	\$/Year	11	\$	80.04	12	\$	80.04	\$	961	\$	101
Load Group 0A	FRN SUBLoad Group 0ATOTAL	FK0A-L0A-F	\$/Year	5	\$	181.24	3	\$	181.24	\$	474	\$	3
Load Group 1	FRN SUBLoad Group 1ATOTAL	FK1A-L1A-F	\$/Year	13	\$	-	11	\$	-	\$	-	\$	-
Load Group 1	FRN SUBLoad Group 1ACAPACITY TOTAL	FK1A-L1A-CPVA	\$/kVA/Year	101	\$	13.77	89	\$	13.77	\$	1,219	\$	164
Load Group 1	FRN SUBLoad Group 1ACPD TOTAL	FK1A-L1A-CPD	\$/kVA/Year	15	\$	97.50	9	\$	97.50	\$	925	\$	538
Load Group 1A	FRN SUBLoad Group 1TOTAL	FK1-L1-F	\$/Year	121	\$	-	119	\$	-	\$	-	\$	-
Load Group 1A	FRN SUBLoad Group 1ACAPACITY TOTAL	FK1-L1-CPVA	\$/kVA/Year	1,816	\$	13.10	23,777	\$	13.10	\$	23,457	\$	320
Load Group 1A	FRN SUBLoad Group 1CPD TOTAL	FK1-L1-CPD	\$/kVA/Year	349	\$	97.50	34,011	\$	97.50	\$	34,090	\$	79
Load Group 2	FRN SUBLoad Group 2TOTAL	FK2-L2-F	\$/Year	150	\$	-	149	\$	-	\$	-	\$	-
Load Group 2	FRN SUBLoad Group 2CAPACITY TOTAL	FK2-L2-CPVA	\$/kVA/Year	7,439	\$	4.05	30,127	\$	4.05	\$	29,680	\$	447
Load Group 2	FRN SUBLoad Group 2CPD TOTAL	FK2-L2-CPD	\$/kVA/Year	1,136	\$	97.50	110,736	\$	97.50	\$	111,479	\$	743
Load Group 3	FRN SUBLoad Group 3TOTAL	FK3-L3-F	\$/Year	7	\$	-	8	\$	-	\$	-	\$	-
Load Group 3	FRN SUBLoad Group 3CAPACITY TOTAL	FK3-L3-CPVA	\$/kVA/Year	1,381	\$	11.20	15,467	\$	11.20	\$	17,419	\$	1,952
Load Group 3	FRN SUBLoad Group 3KVA KM	FK3-L3-DIS	\$/kVA-km/Year	3,135	\$	-	-	\$	-	\$	-	\$	-
Load Group 3	FRN SUBLoad Group 3CPD TOTAL	FK3-L3-CPD	\$/kVA/Year	440	\$	96.30	42,372	\$	96.30	\$	42,476	\$	106
Load Group 3A	FRN SUBLoad Group 3ATOTAL	FK3A-L3A-F	\$/Year	7	\$	-	7	\$	-	\$	-	\$	-
Load Group 3A	FRN SUBLoad Group 3ACAPACITY TOTAL	FK3A-L3A-CPVA	\$/kVA/Year	2,526	\$	11.20	26,051	\$	11.20	\$	26,072	\$	21
Load Group 3A	FRN SUBLoad Group 3AKVA KM	FK3A-L3A-DIS	\$/kVA-km/Year	8,368	\$	-	-	\$	-	\$	-	\$	-
Load Group 3A	FRN SUBLoad Group 3ACPD TOTAL	FK3A-L3A-CPD	\$/kVA/Year	693	\$	96.30	66,736	\$	96.30	\$	66,805	\$	69
Load Group 4	FRN SUBLoad Group 4TOTAL	FK4-L4-F	\$/Year	7	\$	-	5	\$	-	\$	-	\$	-
Load Group 4	FRN SUBLoad Group 4CAPACITY TOTAL	FK4-L4-CPVA	\$/kVA/Year	4,221	\$	12.10	51,070	\$	12.10	\$	33,302	\$	17,768
Load Group 4	FRN SUBLoad Group 4KVA KM	FK4-L4-DIS	\$/kVA-km/Year	9,428	\$	-	-	\$	-	\$	-	\$	-
Load Group 4	FRN SUBLoad Group 4CPD TOTAL	FK4-L4-CPD	\$/kVA/Year	1,474	\$	96.30	141,906	\$	96.30	\$	103,011	\$	38,895
Load Group 5	FRN SUBLoad Group 5TOTAL	FK5-L5-F	\$/Year	-	\$	-	-	\$	-	\$	-	\$	-
Load Group 5	FRN SUBLoad Group 5CAPACITY TOTAL	FK5-L5-CPVA	\$/kVA/Year	-	\$	16.62	-	\$	16.62	\$	-	\$	-
Load Group 5	FRN SUBLoad Group 5KVA KM	FK5-L5-DIS	\$/kVA-km/Year	-	\$	-	-	\$	-	\$	-	\$	-
Load Group 5	FRN SUBLoad Group 5CPD TOTAL	FK5-L5-CPD	\$/kVA/Year	-	\$	96.30	-	\$	96.30	\$	-	\$	-
SUM					\$	546,806		\$	491,372	\$	55,434	\$	

Table AP: Frankton sub-area non standard prices				Pass-through prices (1 period)							
Load Group	Description	Code	Units	Reported Quantities			Projected Quantities (when prices were determined)			Variance	
				Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014 Q ₁ 2014	Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014 Q ₁ 2014	PTP ₁ 2014 Q ₁ 2014	Q ₁ 2014
Non standard	Non-Standard	ICP AAG	\$/Year	1		61,371	1		61,371		
SUM					\$	61,371		\$	61,371	\$	-

Table 24 - Pass-through revenues by tariff - Frankton pricing sub-area

Table AQ: Heritage domestic fixed prices					Pass-through prices (1 period)					
Load Group	Description	Code	Units	Reported Quantities			Projected Quantities (when prices were determined)			Variance
				Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014 Q ₁ 2014	Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014 Q ₁ 2014	PTP ₁ 2014 Q ₁ 2014
Standard Domestic 15	HERITAGEStandard Domestic 15TOTAL	HESD15	\$/Year	91	\$	-	86	\$	-	\$
Standard Domestic 8	HERITAGEStandard Domestic 8TOTAL	HESD8	\$/Year	2	\$	-	2	\$	-	\$
SUM					\$	-		\$	-	\$

Table AS: Heritage variable prices				Pass-through prices (1 period)								
Load Group	Description	Code	Units	Reported Quantities			Projected Quantities (when prices were determined)			Variance		
				Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014 Q ₁ 2014	Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014 Q ₁ 2014	PTP ₁ 2014 Q ₁ 2014	Q ₁ 2014	
Standard Domestic Heritage	General Purpose (Summer)	401S	\$/kWh	240,765	\$	-	-	242,389	\$	-	\$	-
Standard Domestic Heritage	General Purpose (Winter)	401W	\$/kWh	237,064	\$	-	-	201,086	\$	-	\$	-
Standard Domestic Heritage	Night + 3 hour other load	404	\$/kWh	4,295	\$	-	-	4,289	\$	-	\$	-
Standard Domestic Heritage	Std Water Heating 16 hour	406	\$/kWh	110,281	\$	-	-	109,752	\$	-	\$	-
Standard Domestic Heritage	Night Rate	408	\$/kWh	8,181	\$	-	-	6,670	\$	-	\$	-
SUM					\$	-	-		\$	-	\$	-

Table AT: Heritage non-domestic fixed prices				Pass-through prices (1 period)							
Load Group	Description	Code	Units	Reported Quantities			Projected Quantities (when prices were determined)			Variance	
				Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014 Q ₁ 2014	Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014 Q ₁ 2014	PTP ₁ 2014	Q ₁ 2014
Load Group 0	HERITAGELoad Group 0TOTAL	HE0-L0-F	\$/Year	-	\$	-	\$	-	\$	-	\$
Load Group 0A	HERITAGELoad Group 0ATOTAL	HE0A-L0A-F	\$/Year	3	\$	-	4	\$	-	\$	-
Load Group 1	HERITAGELoad Group 1ATOTAL	HE1A-L1A-F	\$/Year	1	\$	-	1	\$	-	\$	-
Load Group 1	HERITAGELoad Group 1ACAPACITY TOTAL	HE1A-L1A-CPVA	\$/kVA/Year	8	\$	-	8	\$	-	\$	-
Load Group 1	HERITAGELoad Group 1ACPD TOTAL	HE1A-L1A-CPD	\$/kW/Year	1	\$	-	1	\$	-	\$	-
Load Group 1A	HERITAGELoad Group 1TOTAL	HE1-L1-F	\$/Year	-	\$	-	-	\$	-	\$	-
Load Group 1A	HERITAGELoad Group 1ACAPACITY TOTAL	HE1-L1-CPVA	\$/kVA/Year	-	\$	-	-	\$	-	\$	-
Load Group 1A	HERITAGELoad Group 1CPD TOTAL	HE1-L1-CPD	\$/kW/Year	-	\$	-	-	\$	-	\$	-
Load Group 2	HERITAGELoad Group 2TOTAL	HE2-L2-F	\$/Year	2	\$	-	1	\$	-	\$	-
Load Group 2	HERITAGELoad Group 2CAPACITY TOTAL	HE2-L2-CPVA	\$/kVA/Year	65	\$	-	24	\$	-	\$	-
Load Group 2	HERITAGELoad Group 2CPD TOTAL	HE2-L2-CPD	\$/kW/Year	6	\$	-	1	\$	-	\$	-
SUM					\$	-		\$	-	\$	-

Table AU: Heritage street lighting prices				Pass-through prices (1 period)							
Load Group	Description	Code	Unit	Reported Quantities			Projected Quantities (when prices were determined)			Variance	
				Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014 Q ₁ 2014	Q ₁ 2014	PTP ₁ 2014	PTP ₁ 2014 Q ₁ 2014	PTP ₁ 2014 Q ₁ 2014	PTP ₁ 2014 Q ₁ 2014
Street Lighting kWh	Street Lighting kWh	410	\$/kWh	27,075	\$	-	26,789	\$	-	\$	-
Street Lighting Lamps	Street Lighting Lamps	HESL	\$/lamp/Year	81	\$	-	81	\$	-	\$	-
SUM					\$	-		\$	-	\$	-

Table 25 - Pass-through revenues by tariff - Heritage Estate pricing area

Doc ID	Suite	Author	Approver	Issued	Version	Page
AE-S017	Aurora Energy	Commercial Mgr	GM AM	8/6/2016	1.0	27 of 42

APPENDIX F Quality Standard Compliance and Incentive

Quality Compliance Calculations

SAIDI and SAIFI Limits

SAIDI Limit 2015-2020 regulatory period	83.365
SAIFI Limit 2015-2020 regulatory period	1.447
SAIDI Unplanned Boundary Value 2015-2020 regulatory period	3.382
SAIFI Unplanned Boundary Value 2015-2020 regulatory period	0.061
SAIDI Limit 2010-2015 regulatory period	98.290
SAIFI Limit 2010-2015 regulatory period	1.670

Table 26 - Quality limits and boundary values

SAIDI Assessed Values

Raw data			Adjusted data		
SAIDI _B	Planned SAIDI	36.253	SAIDI _B	Planned SAIDI multiplied by 0.5	18.126
SAIDI _C	Unplanned SAIDI	202.912	SAIDI _C	Normalised unplanned SAIDI	110.603
SAIDI _{Assess (B+C)}					128.730

Table 27 - SAIDI assessed values

SAIFI Assessed Values

Raw data			Adjusted data		
SAIFI _B	Planned SAIFI	0.230	SAIFI _B	Planned SAIFI multiplied by 0.5	0.115
SAIFI _C	Unplanned SAIFI	2.017	SAIFI _C	Normalised unplanned SAIFI	1.628
SAIFI _{Assess (B+C)}					1.743

Table 28 - SAIFI assessed values

Days exceeding SAIDI Boundary Value within the 2015/16 Assessment Dataset

Date	Pre-Normalised unplanned SAIDI	Normalised unplanned SAIDI
25-May-15	11.843	3.382
4-Oct-15	20.912	3.382
7-Oct-15	6.183	3.382
17-Oct-15	4.324	3.382
24-Nov-15	4.660	3.382
26-Nov-15	6.641	3.382
27-Nov-15	21.497	3.382
10-Mar-16	43.292	3.382
15-Mar-16	3.396	3.382

Table 29 - SAIDI major event days

Days exceeding SAIFI Boundary Value within the 2015/16 Assessment Dataset

Date	Pre-Normalised unplanned SAIFI	Normalised unplanned SAIFI
25-May-15	0.095	0.061
4-Oct-15	0.132	0.061
24-Nov-15	0.166	0.061
27-Nov-15	0.069	0.061
23-Dec-15	0.093	0.061
10-Mar-16	0.199	0.061
15-Mar-16	0.063	0.061

Table 30 - SAIFI major event days

Assessed SAIDI Value 2014/15		
SAIDI _{2014/15}	123.590	The sum of daily SAIDI Values in the 1 April 2014 - 31 March 2015 Normalised Assessment Dataset
Assessed SAIFI Value 2014/15		
SAIFI _{2014/15}	1.370	The sum of daily SAIFI Values in the 1 April 2014 - 31 March 2015 Normalised Assessment Dataset
Assessed SAIDI Value 2013/14		
SAIDI _{2013/14}	94.480	The sum of daily SAIDI Values in the 1 April 2013 - 31 March 2014 Normalised Assessment Dataset
Assessed SAIFI Value 2013/14		
SAIFI _{2013/14}	1.210	The sum of daily SAIFI Values in the 1 April 2013 - 31 March 2014 Normalised Assessment Dataset

Table 31 - Prior period assessed values - SAIDI & SAIFI

Quality Incentive Calculations

Quality Incentive Adjustment		
Term	Description	Value \$
S_{SAIDI}	SAIDI incentive	-282,560
S_{SAIFI}	SAIFI incentive	-282,560
S_{TOTAL}	SAIDI incentive plus SAIFI incentive	-565,120

Table 32 - Statement of quality incentive amount

SAIDI Incentive		
Term	Description	Value
$SAIDI_{Target}$	SAIDI target specified in DPP Determination	74.4633
$SAIDI_{Collar}$	SAIDI incentive range collar specified in DPP Determination	65.5614
$SAIDI_{Cap}$	SAIDI incentive range cap specified in DPP Determination	83.3652
MAR	Maximum allowable revenue for the 2015/16 year	\$56,512,000
REV_{RISK}	Revenue at risk relating to SAIDI target (equal to 1% of MAR)	\$565,120
$SAIDI_{IR}$	SAIDI incentive rate per unit (equal to revenue at risk divided by Cap minus Target)	\$31,742
$SAIDI_{ASSESS}$	Assessed SAIDI value for purpose of incentive	83.365
S_{SAIDI}	SAIDI incentive adjustment (equal to incentive rate multiplied by SAIDI target minus Assessed SAIDI	-\$282,560

Table 33 - Calculation of SAIDI quality incentive component

SAIFI Incentive

SAIFI Incentive		
Term	Description	Value
SAIFI Target	SAIFI target specified in DPP Determination	1.2947
SAIFI Collar	SAIFI incentive range collar specified in DPP Determination	1.1425
SAIFI Cap	SAIFI incentive range cap specified in DPP Determination	1.4469
MAR	Maximum allowable revenue for the 2015/16 year	\$56,512,000
REV _{RISK}	Revenue at risk relating to SAIFI target (equal to 1% of MAR)	\$565,120
SAIFI _{IR}	SAIFI incentive rate per unit (equal to revenue at risk divided by Cap minus Target)	\$1,856,505
SAIFI _{ASSESS}	Assessed SAIFI value for purpose of incentive	1.447
S _{SAIFI}	SAIFI incentive adjustment (equal to incentive rate multiplied by SAIFI target minus Assessed SAIFI value)	-\$282,560

Table 34 - Calculation of SAIFI quality incentive component

APPENDIX G Policies and Procedures for Recording SAIDI & SAIFI

Quality records for all outages (planned and unplanned) on the Aurora Energy Ltd network are maintained by Delta under the requirements of the asset services contract between the two parties for the operation and maintenance of the network. Delta has management policies and procedures that are certified to ISO 9001. The quality procedures pertinent to the recording of outage information are set out in document QP2109 "Network Outage Reporting".

The duty Network Coordinator is responsible for initiating a fault report as soon as the fault occurs and, when completed, attaching relevant information such as switching instructions, SCADA print-outs, etc. The Team Leader – Network Coordinator also examines the daily report from the after-hours telephone answering service to ensure that reports for outages involving single HV fuses or LV fuses supplying multiple consumers are captured. All details on the fault reports are subsequently checked by the Operations Manager.

The Network Coordinator is also responsible for entering data from the report into the outage database. Monitoring quality of outage information entered into the database is the responsibility of the Team Leader – Network Coordinator. Identifying and resolving problems with quality of data is performed weekly and again at month end. Reviewing any problems associated with quality of data is discussed at the fortnightly Operations team meeting with the purpose of learning and achieving incremental improvements. This database is used to collect data on all outages where equipment is removed from service. It therefore includes all planned and unplanned interruptions, as well as those involving all HV fuses and where LV fuses supply multiple ICPs. Momentary interruptions due to circuit reclosers at zone substations less than one minute are also included. The outage database holds the customer-minutes interrupted for each outage along with date, time, cause, voltage of faulted circuit, load lost and number of customers affected.

Consumer numbers are derived from the geographic information system (GIS) for that segment of the circuit affected by the planned or unplanned outage. Each month the ICPs in the GIS are reconciled with the ICPs in the network connection database used for line charge billing to retailers. The network connection database is updated daily from the national registry and a full reconciliation with the national registry is carried out at the end of each month. The consumer number used in the annual outage report is the average of the start period consumer number billed to retailers and the end period consumer number billed to retailers. This average number is divided into the sum of all customer-minutes interrupted to derive the annual SAIDI minutes.

The Asset Management Operations team is currently implementing several initiatives that aim to improve both the internal work processes and services delivered to customers. The recent formation of an Operations team within the Asset Management team, construction of a new Control Room to be manned 24/7 - 365 days, implementation of an Advanced Distribution Management System (ADMS) and centralising of the Central Otago and Dunedin control rooms. The project to deliver an ADMS and Outage Management System includes transitioning the current manual processes for gathering and managing network outage data to newly defined business and work flow processes. The GE PowerOn Fusion system connects the network asset and customer models to accurately understand customer impact of outage events, and provides the opportunity for improving customer service.

Each week a summary of network outages (HV) is reported and discussed at the senior management operations meeting with the purpose of reviewing and identifying improvements to the planned and unplanned outages impacting on customers. In addition, a monthly a summary of reliability performance (including details of the major outages) is reported to the Directors of Aurora Energy Ltd. A separate report on outage performance is also included in the quarterly asset performance report to the Directors of Aurora Energy Ltd. At the end of March each year, an extract of all outages is imported into MS Excel where further analysis is carried out prior to the production of the reports for publication of the Statement and for information disclosure. These reports are scrutinised by the Operations Manager and the Commercial Manager for consistency of coding and to ensure that all interruptions less than 1 minute or involving LV circuits are not included in the Class B or C interruptions.

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Retention of network outage documentation and database records are maintained for a sufficient period as required by law or regulation.

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APPENDIX H Assurance Report

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AUDIT NEW ZEALAND
Mana Arotake Aotearoa

**Independent Assurance Report
To the directors of Aurora Limited and to the Commerce Commission**

The Auditor-General is the auditor of Aurora Limited (the company). The Auditor-General has appointed me, Scott Tobin, using the staff and resources of Audit New Zealand, to provide an opinion, on her behalf, on whether the Annual Compliance Statement for the year ended on 31 March 2016 on pages 2 to 34 has been prepared, in all material respects, with the Electricity Distribution Services Default Price-Quality Path Determination 2015 (the Determination).

Directors' responsibilities for the Annual Compliance Statement

The directors of the company are responsible for the preparation of the Annual Compliance Statement in accordance with the Determination, and for such internal control as the directors determine is necessary to enable the preparation of an Annual Compliance Statement that is free from material misstatement.

Our responsibility for the Annual Compliance Statement

Our responsibility is to express an opinion on whether the Annual Compliance Statement has been prepared, in all material respects, in accordance with the Determination.

Basis of opinion

We conducted our engagement in accordance with the International Standard on Assurance Engagements (New Zealand) 3000 (Revised): Assurance Engagements Other Than Audits or Reviews of Historical Financial Information issued by the External Reporting Board and the Standard on Assurance Engagements 3100: Compliance Engagements issued by the External Reporting Board. Copies of these standards are available on the External Reporting Board's website.

These standards require that we comply with ethical requirements and plan and perform our assurance engagement to provide reasonable assurance about whether the Annual Compliance Statement has been prepared in all material respects in accordance with the Determination.

We have performed procedures to obtain evidence about the amounts and disclosures in the Annual Compliance Statement. The procedures selected depend on our judgement, including the assessment of the risks of material misstatement of the Annual Compliance Statement, whether due to fraud or error or non-compliance with the Determination. In making those risk assessments, we considered internal control relevant to the company's preparation of the Annual Compliance Statement in order to design procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the company's internal control.

In assessing the disclosures about compliance with the price path in clause 8 of the Determination for the assessment period ended on 31 March 2016, our assurance engagement included examination, on a test basis, of evidence relevant to the amounts and disclosures contained on pages 2, 5 and 6 and 14 to 27 of the Annual Compliance Statement.

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In assessing the disclosures about compliance with the quality standards in clause 9 of the Determination for the assessment period ended on 31 March 2016, our assurance engagement included examination, on a test basis, of evidence relevant to the amounts and disclosures contained on pages 2 to 4, 6 to 12, and 28 to 34 of the Annual Compliance Statement.

Our assurance engagement also included assessment of the significant estimates and judgements, if any, made by the company in the preparation of the Annual Compliance Statement.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Use of this report

This independent assurance report solely for the directors of the company and for the Commerce Commission for the purpose of providing those parties with reasonable assurance about whether the Annual Compliance Statement has been prepared, in all material respects, in accordance with the Determination. We disclaim any assumption of responsibility for any reliance on this report to any person other than the directors of the company or the Commerce Commission, or for any other purpose than that for which it was prepared.

Scope and inherent limitations

Because of the inherent limitations of a reasonable assurance engagement, and the test basis of the procedures performed, it is possible that fraud, error or non-compliance may occur and not be detected.

We did not examine every transaction, adjustment or event underlying the Annual Compliance Statement nor do we guarantee complete accuracy of the Annual Compliance Statement. Also we did not evaluate the security and controls over the electronic publication of the Annual Compliance Statement.

The opinion expressed in this independent assurance report has been formed on the above basis.

Independence and quality control

When carrying out the engagement, we complied with the Auditor-General's:

- independence and other ethical requirements, which incorporate the independence and ethical requirements of Professional and Ethical Standard 1 (Revised) issued by the New Zealand Auditing and Assurance Standards Board; and
- quality control requirements, which incorporate the quality control requirements of Professional and Ethical Standard 3 (Amended) issued by the New Zealand Auditing and Assurance Standards Board.

We also complied with the independent auditor requirements specified in the Determination.

The Auditor-General, and her employees and Audit New Zealand and its employees, may deal with the company on normal terms within the ordinary course of trading activities of the company. Other than any dealings on normal terms within the ordinary course of business, the audit of the company's disclosure information prepared under the Electricity Distribution

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Information Disclosure Determination 2012 and the annual audit of the company's financial statements, we have no relationship with or interests in the company.

Opinion

In our opinion:

- As far as appears from an examination, the information used in the preparation of the Annual Compliance statement has been properly extracted from the company's accounting and other records, and has been sourced, where appropriate, from its financial and non-financial systems.
- The Annual Compliance Statement of company for the year ended on 31 March 2016, has been prepared, in all material respects, in accordance with the Determination.

In forming our opinion, we have obtained sufficient recorded evidence and all the information and explanations we have required.



Scott Tobin
Audit New Zealand
On behalf of the Auditor-General
Christchurch, New Zealand
8 June 2016

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APPENDIX I Compliance Matrix

This schedule demonstrates how this Statement complies with the Determination.

Determination Requirement	Determination Reference	Statement Reference
The Annual Compliance Statement must:		
state whether or not the Non-exempt EDB has complied with:		
the price path in clause 8 for the Assessment Period; and	Clause 11.2(a)(i)	Section 5.1
the quality standards in clause 9 for the Assessment Period;	Clause 11.2(a)(ii)	Section 5.2
include any information required under clause 11.4 (price path compliance);	Clause 11.2(b)	See below
include any information required under clause 11.5 (quality standards compliance);	Clause 11.2(c)	See below
state whether or not:		
the Non-exempt EDB has undertaken a Restructure of Prices during the Assessment Period.	Clause 11.2(d)(i)	Section 5.3
the Non-exempt EDB has received a transfer of transmission assets from Transpower that become System Fixed Assets of transferred System Fixed Assets to Transpower.	Clause 11.2(d)(ii)	Section 5.3
any Amalgamation or Merger has occurred in the Assessment Period.	Clause 11.2(d)(iii)	Section 5.3
any Major Transaction has occurred in the Assessment Period.	Clause 11.2(d)(iv)	Section 5.3
if there has been an Amalgamation, Merger, or Major Transaction, include any additional information in accordance with clause 11.6 (transactions compliance)	Clause 11.2(e)	Not applicable
if there has been a Restructure of Prices in the Assessment Period or the previous Assessment Period, include any additional information in accordance with clauses 11.7 and 11.8 (Restructure of Prices compliance)	Clause 11.2(f)	Not applicable
state the date on which the statement was certified	Clause 11.2(g)	Section 5.4

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Determination Requirement	Determination Reference	Statement Reference
The Annual Compliance Statement must be accompanied by: a certificate in the form set out in Schedule 6, signed by at least one Director of the Non-exempt EDB. by an assurance report, meeting the requirements specified in Schedule 7, in respect of all information contained in the Annual Compliance Statement.	Clause 11.3(a) Clause 11.3(b)	Appendix A Appendix H
The Annual Compliance Statement must include any information reasonably necessary to demonstrate whether the Non-exempt EDB has complied with the price path set out in clause 8, including but not limited to: if the Non-exempt EDB has not complied with the price path, the reasons for the non-compliance; actions taken to mitigate any non-compliance and to prevent similar noncompliance in future Assessment Periods; the amount of allowable notional revenue, the amount of notional revenue, Distribution Prices, Quantities, along with the units of measurement associated with all numeric data, and other relevant data, information, and calculations; in relation to each Price during any part of the Assessment Period, the Price and the portions of that Price that are Pass-through Prices and the portion of that Price that are Distribution Prices; the methodology used to calculate Distribution Prices and Pass-through Prices, along with information clearly identifying the portion of Pass-through Prices attributable to— Pass-through Costs and Recoverable costs for the Assessment Period in question, and any under or over-recovery of Pass-through Costs and Recoverable Costs from a prior Assessment Period, as reflected by the Pass-through Balance; the Pass-through Balance, Pass-through Prices, and Quantities for the Assessment Period and the preceding Assessment Period, along with the units of measurement associated with all numeric data, and other relevant data information, and calculations; the amount of Pass-through Costs and Recoverable Costs included in the calculation of the Pass-through Balance for the Assessment Period, and supporting data, information, and calculations used to determine those amounts; evidence of the amount of charge relating to any new investment contract entered into in the Assessment Period consistent with clause 3.1.3(1)(c) of the IM Determination, which need not be publicly disclosed under 11.1(c);	Clause 11.4(a) Clause 11.4(b) Clause 11.4(c) Clause 11.4(c) Clause 11.4(c) Clause 11.4(e)(i) Clause 11.4(e)(ii) Clause 11.4(f) Clause 11.4(g) Clause 11.4(h)	Not applicable Not applicable Appendix B Appendices D & E Section 6.1 and Appendix C Appendix C Appendix C Appendix C Not applicable

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Determination Requirement	Determination Reference	Statement Reference
the amount of any Pass-through Costs and Recoverable Costs (actual or forecast) used to set Pass-through Prices for the Assessment period;	Clause 11.4(i)	Appendix C
an explanation as to the cause, or likely cause, of any differences between the amounts of Pass-through or Recoverable Costs used to set Prices and actual amounts of those Pass-through Costs and Recoverable Costs; and	Clause 11.4(j)	Section 6.1.2
a reconciliation between the Pass-through Balance for the Assessment period with the Pass-through Balance for the preceding Assessment Period.	Clause 11.4(k)	Appendix C
The Annual Compliance Statement must include any information reasonably necessary to demonstrate whether the Non-exempt EDB has complied with the quality standards set out in clause 9, including but not limited to:		
if the Non-exempt EDB has not complied with the annual reliability assessment in clause 9.2 for the Assessment Period, the reasons for not complying;	Clause 11.5(a)	Section 6.2.1
actions taken to mitigate any non-compliance and to prevent similar noncompliance in future Assessment Periods;	Clause 11.5(b)	Section 6.2.2
SAIDI and SAIFI Assessed Values, Limits, Unplanned Boundary Values, Caps, Collars, and the Targets for the Assessment Period, and any supporting calculations (including those in Schedule 4A) and the annual reliability assessments for the two previous Assessment Periods	Clause 11.5(c)	Appendix F
any recalculations of the SAIDI and SAIFI Limits, Unplanned Boundary Values, Targets, Caps, and collars following a Major Transaction or transfer of transmission assets from Transpower that become System Fixed Assets, or a transfer of System Fixed Assets to Transpower including any supporting information, calculations, or data used to determine the historic SAIDI and SAIFI Values of the newly acquired or transferred assets.	Clause 11.5(d)	Not applicable
a description of the policies and procedures which the Non-exempt EDB has used for capturing and recording Interruptions and for calculating SAIDI and SAIFI Assessed Values for the Assessment Period; and	Clause 11.5(e)	Appendix G
the cause of each Major Event Day within the Assessment Period.	Clause 11.5(f)	Section 6.2.2.2
If a Non-exempt EDB participates in an Amalgamation, a Merger, or Major Transaction, the Annual Compliance Statement for that Assessment Period must:		
state whether or not the Non-Exempt EDB has complied with clauses 10.1 to 10.4; and	Clause 11.6(a)	Not applicable
include any information or calculations required to be made under clauses 10.1 to 10.4.	Clause 11.6(b)	Not applicable

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Determination Requirement	Determination Reference	Statement Reference
If a Non-exempt EDB has undertaken a Restructure of Prices that first applied during the current or preceding Assessment Period, the Annual Compliance Statement must state the nature of the Restructure of Prices and identify the consumer groups impacted by the Restructure of Prices	Clause 11.7	Not applicable
If a Non-exempt EDB has undertaken a Restructure of Prices that first applied during the current or preceding Assessment Period, and the Non-exempt EDB has derived Quantities for the purpose of calculating notional revenue or allowable notional revenue under clause 8.10, the Annual Compliance Statement must include:		
The methodology used to determine the Quantities that correspond to each restructured price;	Clause 11.8(a)	Not applicable
The forecast of the Quantities corresponding to each restructured Price prepared by the Non-exempt EDB for that Assessment Period, and the actual Quantities; and	Clause 11.8(b)	Not applicable
An explanation for any differences between actual and forecast Quantities.	Clause 11.8(c)	Not applicable

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