

Orion New Zealand Limited Customised Price-Quality Path Determination 2013

Compliance statement

For the year ending 31 March 2018

Issued 28 May 2018

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INTRODUCTION

- Orion New Zealand Limited (Orion) owns and operates the electricity distribution network in central Canterbury between the Waimakariri and Rakaia rivers, and from the Canterbury coast to Arthur's Pass. Our network covers 8,000 square kilometres of diverse geography, including Christchurch city, Banks Peninsula, farming communities and high country regions. We receive electricity from Transpower's national grid at seven separate locations and we distribute this electricity to more than 200,000 homes and businesses.
- 2 We charge electricity retailers on a wholesale basis for this delivery service. Retailers, in turn, include this cost in their retail electricity prices our delivery charges, including Transpower's charges, typically amount to around 40% of a household's electricity bill.
- As a natural monopoly service provider, we are subject to government regulation under the Commerce Act 1986. Pursuant to the requirements of this Act, the Commerce Commission has set a regulatory framework that includes information disclosure regulations, default price-quality paths (DPP) and the option for distribution businesses to apply for a customised price-quality path (CPP).
- In February 2013, to recognise the impact of the Canterbury earthquakes on our costs and supply quality, Orion applied for a customised price-quality path. Following our application and wider consultation, the Commerce Commission issued a customised price path determination (the CPP determination) on 28 November 2013 that applies to Orion and sets out a price and quality path for the period from 1 April 2014 to 31 March 2019.
- 5 This statement has been prepared to demonstrate our compliance, or otherwise, with the requirements in the CPP determination. Specifically, this compliance statement covers the information requirements detailed in clause 10 of the CPP determination for the year ended 31 March 2018.

COMPLIANCE STATEMENTS

Price path statement

This year we **complied with** our price path limit, with notional revenue falling \$141.6k below our allowable notional revenue of \$170,032.7k, calculated in accordance with clause 7.5 and schedule 1B of the CPP determination.

Quality standard statement

- 7 This year we doubly **complied with** our reliability limit, complying with the annual reliability assessment in the current assessment period, as well as complying with the reliability assessment for the two preceding assessment periods.
- 8 For the current assessment period our results were:
 - 8.1 SAIDI (duration of outages) of 79.05, 3.35 below our limit of 82.4, and
 - 8.2 SAIFI (frequency of outages) of 1.00, 0.02 below our limit of 1.02.

Price structure statement

9 We have not restructured our prices during the assessment period. However, we did restructure our prices during the previous assessment period. As a result, several of the quantities that are referenced from two years prior do not relate to our current prices. Consistent with last year, we have taken the approach described in clause 7.7 and we have been able to establish appropriate prior quantities that reasonably relate to the restructured prices based on quantities that were either charged or measured, and use these to demonstrate compliance. We have not established alternative quantities.

Transaction statements

- 10 During the assessment period, we:
 - 10.1 have not been involved in an amalgamation or merger, and
 - 10.2 have not been involved in a transfer of assets governed by clause 9.3 of the CPP determination.
- 11 We prepared and approved this compliance statement on 28 May 2018.
- 12 Full details supporting the statements above are included in this compliance statement.

PRICE PATH SUPPORTING INFORMATION

13 Clause 7.5 of the CPP determination requires that notional revenue (NR_t) does not exceed allowable notional revenue (ANR_t) for the assessment period, as expressed by the following condition:

$$\frac{NR_t}{ANR_t} \leq 1$$

Notional revenue

14 Using the definitions provided in clause 7.5, notional revenue is evaluated as:

$$NR_t = \sum_i P_{i,t}Q_{i,t-2} - K_t - V_t$$

where t denotes the year in which the assessment period ends, that is 2018, giving:

$$NR_{2018} = \sum_{i} P_{i,2018} Q_{i,2016} - K_{2018} - V_{2018}$$

where $\sum_i P_{i,2018} P_{i,2016}$ is the sum of each (ith) price during any part of the assessment period pertaining to electricity lines services, multiplied by the corresponding quantity for 2016. This expression is evaluated as \$251,966.8k in the worksheet on page 8 titled notional charges worksheet,

 K_{2018} is the sum of all pass-through costs for the assessment period. This expression is evaluated as \$4,743.8k in the worksheet on page 11 titled *pass through costs, and*

 V_{2018} is the sum of all recoverable costs for the assessment period. This expression is evaluated as \$77,331.8k in the worksheet on page 10 titled *recoverable costs*,

$$\therefore NR_{2018} = \$251,966.8k - \$4,743.8k - \$77,331.8k$$
$$= \$169,891.1k$$

Allowable notional revenue

Allowable notional revenue is defined in clause 7.5 and schedule 1B of the CPP determination as:

$$ANR_{t} = \left(\sum_{i} P_{i,t-1}Q_{i,t-2} - (K_{t-1} + V_{t-1}) + (ANR_{t-1} - NR_{t-1})\right)(1 + \Delta CPI_{t})(1 - X)$$

where t denotes the year in which the assessment period ends, that is 2018, giving:

$$ANR_{2018} = \left(\sum_{i} P_{i,2017} Q_{i,2016} - (K_{2017} + V_{2017}) + (ANR_{2017} - NR_{2017})\right)$$
$$\times (1 + \Delta CPI_{2018})(1 - X)$$

where $\sum_i P_{i,2017} P_{i,2016}$ is the sum of each (ith) price during any part of the assessment period ending in 2017, multiplied by the corresponding quantity for 2016. This expression is evaluated as \$252,044.8k in the worksheet on page 9 titled *prior notional charges worksheet*,

 $K_{2017} + V_{2017}$ is the sum of all pass-through and recoverable costs for the assessment period ending in 2017. This was evaluated as \$4,548.1k and \$79,940.4k respectively in our previous Customised Price Path Compliance Statement. The components making up these amounts are also shown alongside the current year's figures in the tables on page 10 and 11 of this compliance statement,

ANR₂₀₁₇ – NR₂₀₁₇ is the difference between allowable notional revenue and notional revenue for the assessment period ending in 2017. This was evaluated as \$235.9k in our previous Customised Price Path Compliance Statement,

 $1 + \Delta CPI_{2018}$ is the derived change in CPI to be applied for the current assessment period. Stats NZ re-based its CPI index in June 2017, setting the index for that quarter to a base of 1000. At the same time the prior period figures were restated relative to this new base, and we have calculated the CPI movement using the re-based index:

$$= \frac{CPI_{Dec,2015} + CPI_{Mar,2016} + CPI_{Jun,2016} + CPI_{Sep,2016}}{CPI_{Dec,2014} + CPI_{Mar,2015} + CPI_{Jun,2015} + CPI_{Sep,2015}} - 1$$
$$= \frac{977 + 979 + 983 + 986}{976 + 975 + 979 + 982} - 1$$
$$= 0.332\%$$

1-X is the rate of change specified in clause 7.2 of the determination as -1% (ie 1-X = 1.01)

$$\therefore ANR_{2018} = (\$252,044.8k - \$4,548.1k - \$79,940.4k + \$235.9k)(1.00332)(1.01)$$

16 Substituting the values calculated above in the price path condition gives:

$$\frac{NR_{2018}}{ANR_{2018}} = \frac{\$169,891.1k}{\$170,032.7k} = 0.9992 < 1$$

Our notional revenue is \$141.6k less than our allowable notional revenue and, as the condition is satisfied, we comply with the price requirement specified in clause 7.5 of the CPP determination.

Restructuring of prices

- 18 We restructured some of our prices from the start of the prior assessment period, on 1 April 2016. While not a major change, the new prices are not directly aligned with the quantities that were applied two years ago, and referenced for use in the calculation of notional revenue.
- 19 To establish both allowable notional revenue and comparable notional revenue for the purpose of the compliance test it is necessary to establish chargeable quantities for the new structure at a level equivalent to that which would have applied had the new structure been in place in FY16.
- 20 In all cases the new price structure uses chargeable quantity metrics that were already used in charging, or are available to be measured. So quantities that reasonably relate to the new restructured prices are easily quantified.
- The following table sets out each new restructured price, the basis for establishing the quantity, and the quantity itself.

New restructured price	Description of change	Basis for quantity
General volume pricing	Public holidays are now charged at the weekday rate rather than the weekend rate.	The volume charged on public holidays has been specifically identified as 43,163.7 MWh. This has been deducted from the nights and weekends charge and added to the weekday charge.
Major fixed charge	All standard and secondary connections are now charged at the same price.	The quantity has been set to 385 connections, being the sum of the previously separate 373 standard and 12 secondary connections.
Major nominated maximum demand charge	This replaces the previous assessed capacity distribution charge, and the measurement now includes peaks that might occur during holidays, weekends and night loads, peak export, and it is also updated monthly (rather than set for a year).	We individually assessed the quantity that would have applied to each major customer if the pricing had been in place in FY16. The revised basis increased the quantity by a small amount from 204,664.2 kVA to 208,232.5 kVA.
Major metered maximum demand charge	This replaces the previous assessed capacity transmission charge, and the measurement now includes peaks that might occur during holidays.	We individually assessed the quantity that would have applied to each major customer if the pricing had been in place in FY16. The revised basis increased the quantity by a small amount from 199199.2 kVA to 199,056.4 kVA.
Major extra switch charge	This replaces the 20 individual and separately priced switchgear charges, effectively charging all switches at the same price.	We set the quantity to the sum of the number of different switches applied in FY16, 110.83 items.
Metering equipment	This is a simple per-connection charge for metering equipment and replaces the separate CT, VT, integrated CT/VT, and test block charges that we previously applied.	The quantity is set to the number of connections where metering was provided in FY16, 62.33 connections.
Transformer capacity	This uses a "per kVA" basis and replaces the 17 separate prices that we previously maintained for different transformer sizes	The quantity is set to the sum of the kVA (by size of transformer) charged for in FY16, 243,558.7 kVA

Notional charges worksheet

$\sum_{i} P_{i,t} Q_{i,t-2}$					(\$000)
i Components (i)		lelivery prices	Quantities (Q _{i,2016})	Days applicable	Notional annual delivery charges (P _{i.2018} x Q _{i.2016})
Days in quantity year				366	(* 1,2018 ** 1,2018)
Streetlighting, general and irrigation connections					
Streetlighting fixed charge	0.1129	\$/con/day	46,228.6 cons	366 days	1,910.2
Streetlighting and general connections Peak charge (peak period demand)	0.5310	\$/kW/day	482,845.6 kW	366 days	93,839.1
Streetlighting, general and irrigation connections vol	-				
Weekdays (Mon to Fri, 7am - 9pm) Nights, weekends (Sat & Sun)	0.08773 0.01125		1,142,134 MWh 1,314,363 MWh		100,199.4 14,786.6
Nights, weekends (sat & sun)	0.01125	3/ 10/11	1,514,505 1/1/1/1		14,780.0
General connections					
Low power factor charge	0.2000	\$/kVAr/day	0.0 kVAr	366 days	0.0
Irrigation connections					
Capacity charge		\$/kW/day	77,725.4 kW	183 days	5,969.7
Power factor correction rebate Interruptibility rebate		\$/kVAr/day \$/kW/day	26,913.7 kVAr 46,474.5 kW	183 days 183 days	(883.1) (381.0)
menuprionityrebate	(0.0440)	S/KW/Udy	40,474.5 KW	185 Gays	(561.0)
Major customer connections and embedded networks					
Fixed charge	1.8900	\$/con/day	384.60 cons	366 days	266.0
Extra switches		\$/switch/day	110.80 switches	366 days	143.6
11k Metering equipment		\$/con/day	62.30 cons	366 days	97.8
11kV Underground cabling 11kV Overhead lines		\$/km/day \$/km/day	2.00 km 3.20 km	366 days 366 days	2.3
Transformer capacity		\$/kVA/day	243,696.50 kVA	366 days	1,186.3
Peak charge (control period demand)	0.4957	\$/kVA/day	97,604.60 kVA	366 days	17,350.8
Nominated maximum demand		\$/kVA/day	208,232.50 kVA	366 days	7,994.8
Metered maximum demand		\$/kVA/day	199,056.40 kVA	366 days	6,178.1
Large capacity connections					
Ops, maint & admin (dedicated assets)	5.08	\$/kVA/year	12,000.0 kVA	366 days	61.0
Ops, maint & admin (shared assets)	22.58	\$/kVA/year	9,853.0 kVA	366 days	222.5
Asset charge (dedicated assets)		\$/kVA/year	12,000.0 kVA	366 days	107.3
Asset charge (shared assets)		\$/kVA/year	9,853.0 kVA	366 days	405.5
Interconnection charge (winter) Interconnection charge (summer)		\$/kVA/year \$/kVA/year	1,997.2 kVA 6,809.1 kVA	366 days 366 days	138.1 383.8
Connection charge		\$/kVA/year	6,809.1 kVA	366 days	46.9
Ops, maint & admin (dedicated assets)		\$/kVA/year	13,000.0 kVA	366 days	84.8
Ops, maint & admin (shared assets)		\$/kVA/year	11,782.8 kVA	366 days	110.1
Asset charge (dedicated assets)		\$/kVA/year	13,000.0 kVA	366 days	209.7
Asset charge (shared assets)		\$/kVA/year	11,782.8 kVA	366 days	272.7
Interconnection charge (winter)	67.46	\$/kVA/year	1,158.6 kVA	366 days	78.2
Interconnection charge (summer)		\$/kVA/year	9,814.1 kVA	366 days	539.7
Connection charge Customer investment contract charge		\$/kVA/year \$/kVA/year	9,814.1 kVA 13,000.0 kVA	366 days 366 days	16.3 782.7
_	00.21	er i ven yeur	10,000.0 KVA	555 0035	702.7
Export and generation (distribution part only) Real power component	(0.0906)	\$/kW/day	2,353.5 kW	366 days	(78.0)
Reactive power component		\$/kVAr/day	414.9 kVAr	366 days	(4.5)
Generation credits		\$/kWh	274,660.0 kWh		(82.4)
Miscellaneous					
Monthly invoice charge	30.00	\$/invoice	326.0 inv/yr		9.8
Notional charges 2018					251,966.8

Notes:

- 1. The irrigation capacity charge and rebates are applied from 1 October to 31 March only.
- 2. All prices and charges exclude GST.

Prior notional charges worksheet

$\sum_{i} P_{i,t-1} Q_{i,t-2}$ Components (i)		very prices	Quantities	Days	(\$000) Notional annual
Days in quantity year	(P _{i,3}	2017)	(Q _{i,2015})	applicable 366	delivery charges (P _{i,2017} x Q _{i,2016})
Streetlighting, general and irrigation connections					
	0.4465	<i>ci i i</i>	45 000 S	255.1	4.070.0
Streetlighting fixed charge	0.1166	\$/con/day	46,228.6 cons	366 days	1,972.8
Streetlighting and general connections Peak charge (peak period demand)	0.5325	\$/kW/day	482,845.6 kW	366 days	94,104.2
Streetlighting, general and irrigation connections vo	olume charge				
Working weekdays (7am - 9pm)	0.08642		1,142,134 MWh		98,703.2
Nights, weekends	0.01106	\$/kWh	1,314,363 MWh		14,536.9
General connections					
Low power factor charge	0.2000	\$/kVAr/day	0.0 kVAr	366 days	0.0
Irrigation connections					
Capacity charge	0.4920	\$/kW/day	77,725.4 kW	183 davs	6,998.1
Power factor correction rebate		\$/kVAr/day	26,913.7 kVAr	183 days	(883.1
Interruptibility rebate	(0.0448)	\$/kW/day	46,474.5 kW	183 days	(381.0
Major customer connections and embedded networks					
Fixed charge	1 8565	\$/con/day	384.60 cons	366 days	261.3
Extra switches		\$/switch/day	110.80 switches	366 days	203.2
11k Metering equipment		\$/con/day	62.30 cons	366 days	160.8
11kV Underground cabling		\$/km/day	2.00 km	366 days	2.3
11kV Overhead lines	1.9100	\$/km/day	3.20 km	366 days	2.3
Transformer capacity	0.0168	\$/kVA/day	243,696.50 kVA	366 days	1,498.4
Peak charge (control period demand)	0.4891	\$/kVA/day	97,604.60 kVA	366 days	17,472.3
Nominated maximum demand		\$/kVA/day	208,232.50 kVA	366 days	6,851.6
Metered maximum demand	0.1001	\$/kVA/day	199,056.40 kVA	366 days	7,292.7
Large capacity connections					
Ops, maint & admin (dedicated assets)	4.56	\$/kVA/year	12,000.0 kVA	366 days	54.7
Ops, maint & admin (shared assets)	18.67	\$/kVA/year	9,853.0 kVA	366 days	184.0
Asset charge (dedicated assets)	8.94	\$/kVA/year	12,000.0 kVA	366 days	107.3
Asset charge (shared assets)	37.80	\$/kVA/year	9,853.0 kVA	366 days	372.4
Interconnection charge (winter)	70.42	\$/kVA/year	1,997.2 kVA	366 days	140.6
Interconnection charge (summer)	57.34	\$/kVA/year	6,809.1 kVA	366 days	390.4
Connection charge	6.48	\$/kVA/year	6,809.1 kVA	366 days	44.1
Ops, maint & admin (dedicated assets)		\$/kVA/year	13,000.0 kVA	366 days	73.3
Ops, maint & admin (shared assets)		\$/kVA/year	11,782.8 kVA	366 days	98.2
Asset charge (dedicated assets)		\$/kVA/year	13,000.0 kVA	366 days	202.5
Asset charge (shared assets)		\$/kVA/year	11,782.8 kVA	366 days	271.0
Interconnection charge (winter)		\$/kVA/year	1,158.6 kVA	366 days	79.6
Interconnection charge (summer)		\$/kVA/year	9,814.1 kVA	366 days	549.1
Connection charge Customer investment contract		\$/kVA/year \$/kVA/year	9,814.1 kVA 13,000.0 kVA	366 days 366 days	17.9 819.4
		-,,			
Export and generation (distribution part only)	(0.00005900)	¢/www.de-w	0.050 E MM	265 days	(70.4
Real power component	(0.09095890)		2,353.5 kW	366 days	(78.4
Reactive power component Generation credits	(0.02989041) (0.30)	\$/kVAr/day \$/kWh	414.9 kVAr 274,660.0 kWh	366 days	(4.5 (82.4
	(0.50)	-,			(32.1
Miscellaneous Monthly invoice charge	20.00	\$/invoice	226 0 joulur		
Monthly invoice charge	30.00	\$/invoice	326.0 inv/yr		9.8
Notional charges 2017					252,044.8

Notes:

- 1. The irrigation capacity charge and rebates are applied from 1 October to 31 March only.
- 2. All prices and charges exclude GST.

Pass through costs and recoverable costs

- 22 Pass through costs and recoverable costs are specifically recognised in the CPP determination so that changes in the amounts can be directly reflected in prices.
- 23 Recoverable costs include transmission charges (including charges payable to Transpower and avoided transmission charges), system operator charges, transmission payments to distributed generators, and a range of fees associated with the CPP proposal.
- The following table of recoverable costs shows the recoverable cost amounts for the assessment period, the amounts we forecast for the assessment period when setting prices, and actual amounts for the prior period:

Recoverable costs		FY18 actual	FY18 forecast	FY17 actual
	IM reference ¹	\$000	\$000	\$000
Transpower and System Operator charges				
Connection	3.1.3(1)(b)	4,623.0	4,786.0	4,652.8
Interconnection	3.1.3(1)(b)	65,216.2	65,216.2	65,982.8
New investment	3.1.3(1)(c)	2,076.3	2,076.3	2,604.0
System Operator charges	3.1.3(1)(d)	nil	nil	nil
		71,915.5	72,078.4	73,239.5
Avoided transmission charges				
Papanui connection charges avoided (purchased 1/8/2012)	3.1.3(1)(e)	0	0	1,272.9
Springston connection charges avoided (purchased 31/3/2014)	3.1.3(1)(e)	866.2	866.2	847.3
Springston new investment charges avoided (purchased 31/3/2014)	3.1.3(1)(e)	164.1	164.1	175.2
Bromley connection charges avoided (purchased 1/4/2014)	3.1.3(1)(e)	945.8	945.8	919.0
Addington/Middleton connection charges avoided (purchased 1/4/2015)	3.1.3(1)(e)	2,851.1	2,851.1	2,779.3
		4,827.1	4,827.1	5,993.9
Transmission part of distributed generation pa	ayments			
Export credits	3.1.3(1)(f)	132.7	149.5	210.4
Generation credits	3.1.3(1)(f)	16.6	46.4	56.7
		149.3	195.8	267.1
CPP costs ²				
CPP application fee	3.1.3(1)(h)	5.0	5.0	5.0
CPP assessment fee	3.1.3(1)(i)	317.8	317.8	317.8
CPP verifier fee	3.1.3(1)(j)	51.5	51.5	51.5
CPP auditor's fee	3.1.3(1)(k)	61.7	61.7	61.7
CPP engineer's fee	3.1.3(1)(l)	3.9	3.9	3.9
		439.9	439.9	439.9
Total recoverable costs		77,331.8	77,541.3	79,940.4

¹ Clause reference to the Electricity Distribution Services Input Methodologies Determination 2012 [2012] NZCC 26

² See appendix E for our calculation of CPP cost instalments

- 25 Clauses 10.3(d)(ii) and (iii) of the determination set out additional information requirements in relation to avoided transmission charges. This information and related calculations are included in Appendix C to this compliance statement.
- ²⁶ Clause 10.3(e) of the determination requires information in relation to and evidence of the amounts charged by Transpower. Copies of invoices for these amounts are included in Appendix B.
- 27 Clause 10.3(f) of the determination requires information in relation to indirect transmission charges, where Transpower's charges are recharged to us by another electricity distributor. Orion has not paid any indirect transmission charges.
- 28 Pass-through costs include rates payable to territorial local authorities, Electricity Authority levies, Commerce Act levies and Utilities Disputes scheme charges.
- 29 The following table of pass through costs shows the pass through amounts for the assessment period, the amounts we forecast for the assessment period when setting prices, and actual amounts for the prior period:

Pass through costs		FY18 actual	FY18 forecast	FY17 actual
	IM reference ³	\$000	\$000	\$000
Local authority rates	3.1.2(2)(a)	3,699.4	3,642.0	3,462.0
Electricity Authority levies	3.1.2(2)(b)(ii)	564.8	580.0	589.6
Commerce Commission levies	3.1.2(2)(b)(i)	376.0	300.0	397.2
Utilities Disputes charges	3.1.2(2)(b)(iii)	103.6	90.0	99.3
Total pass through costs		4,743.8	4,612.0	4,548.1

¹¹

³ Clause reference to the Electricity Distribution Services Input Methodologies Determination 2012 NZCC 26

Variances from forecasts

- Clause 10.3(c) of the CPP determination requires an explanation of any differences between forecast and actual pass through and recoverable costs. Such variances are normal and expected, because forecasts, by their very nature, are predictions or estimates. In many cases there is no concise reason for the variation other than to observe that the result was different.
- The following table shows recoverable costs and pass through costs from above where the actual result varied by more than 2% from the forecast amount for FY18, and provides an explanation of each variance.

Cost category	Variance		Explanation
	\$000	%	
Transpower connection charges	(163.0)	-3.4%	A transformer at Bromley grid exit point was taken out of service part way through the year (earlier than expected) and charges were reduced.
Export and generation credits	(46.5)	-23.7%	We set prices in advance but forecast the duration of signalling and estimate the customer response. Actual duration and customer response was lower than our forecast.
Electricity Authority levies	(15.2)	-2.6%	Levies varied from the amount forecast.
Commerce Commission levies	76.0	+25.3%	Levies were greater than forecast. The main contributor was the prior period wash up charge.
Utilities Disputes scheme charges	13.6	+15.1%	Charges varied from the amount forecast.

Revenue excluded from the price path assessment

- **Other revenue** We directly charge customers for very few other services, and make extensive use of external contractors rather than maintaining contracting staff in-house. Customers requiring electrical work are generally referred to their own electrical contractor, or to a number of Orionapproved contractors for major work. Customers then pay the contractor directly. We provide other services without charge (such as decommissioning of connections).
- The sundry revenue we do receive is from services including rentals from Vodafone cabling, advertising, leasing, temporary supply box hire, limited field service activities and upper South Island load coordination services. The Commerce Commission has deducted this sundry revenue in establishing our maximum allowable revenue (MAR) figure. Consistent with this, we have not included this revenue in our notional revenue calculation which is compared against allowable notional revenue (which is derived from the initial MAR).
- **Capital contributions** Assets vested in Orion by customers in the form of capital contributions are taken at nil value, are not added to our regulatory asset base and are therefore excluded from this price path assessment.
- Consistent with this exclusion, revenue from cash capital contributions, which is taken to offset the asset value in our regulatory asset base, is also excluded from this price path assessment.

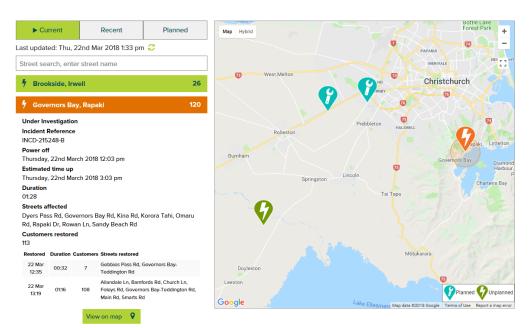
QUALITY STANDARD SUPPORTING INFORMATION

- 36 The CPP determination sets out a quality standard that considers reliability results against reliability limits set for each year of the 5 year regulatory period. To comply, Orion must demonstrate that it has either met the reliability limits in the assessment period, or has met the reliability limits in the two preceding extant assessment periods.
- 37 Two measures of reliability are assessed:
 - 37.1 SAIDI, or system average interruption duration index, which reflects the average number of minutes a customer is off in a year, and
 - 37.2 SAIFI, or system average interruption frequency index, which reflects the average number of interruptions a customer has in a year.
- The following section describes our policies and procedures for recording outage information, and this is followed by a summary of the calculation of our reliability results.

Recording reliability information

- 39 Orion operates an outage management system as part of its "PowerOn" SCADA network management system. The system maintains a live connectivity model of our high voltage network which includes information on customer connection points, and where each connection point is fed from.
- 40 For planned outages and following network faults, our network controllers follow sequential operating orders to carry out switching and configuration changes on the network to bypass affected assets and facilitate planned or remedial work. At each point during these operating orders PowerOn shows the number of connections affected, together with switching points and switching times.
- Initially, both planned and unplanned outages are reported on our website providing a live display of outages together with a map showing location, for example:

Power Outages



- 42 Our network management system, PowerOn, automatically collates a record of outage results within the system. Power is often restored in stages, and PowerOn automatically assesses how many customers are affected by each stage and records details separately for each restoration stage.
- To provide an example, the outage entry showing above was collated in the PowerOn system and recorded as follows:

Excluding incidents affecting no customers Outage Statistics for Date Range									for Date Range		
Date	Incident #	Job #	Туре	Stages	Off	On	Mins Off	# Ints	Cust Mins	Planned	= Description
= 22-Mar-18		11	5				1822	2524	59216		
	E INCD-215248-B	F-20896-B	Orion Fault HV		22/03/18 12:03:43	22/03/18 16:59:00	295.3	418	39980	0	Teddington 25 - HA8/38 , CB 111 - Governors Bay
			Stage No:	1	22/03/18 12:03:43	22/03/18 12:35:00	31.3	6	188		
			Stage No:	2	22/03/18 12:03:43	22/03/18 13:14:00	70.3	107	7520		
			Stage No:	3	22/03/18 12:03:43	22/03/18 14:04:00	120.3	46	5533		
			Stage No:	4	22/03/18 12:03:43	22/03/18 14:24:00	140.3	26	3647		
			Stage No:	5	22/03/18 14:26:06	22/03/18 14:41:57	15.8	159	2 5 2 0		
			Stage No:	6	22/03/18 15:59:00	22/03/18 16:55:00	56.0	46	2576		
			Stage No:	7	22/03/18 14:28:00	22/03/18 16:55:00	147.0	26	3822		
			Stage No:	8	22/03/18 12:03:43	22/03/18 16:59:00	295.3	48	14174		

Zon	e	Voltage	Substation	Feeder	Controller Comments	Tripped Device	= Cause Group	Cause Type	Planned Reason	Cause Comments	Work Type	Failed Asset	Failure Mode
Tedd	lington	11kv	Teddington - HA8/38	Unit 111			Asset Failure	Condition Deterioration		By Pass ABI	11 kV OH Emergency Maint	HV Line	OH Insulato
						Teddington ZS - HA8/38 , CB 111 - Governors Bay							
						Teddington ZS - HA8/38 , OB 111 - Governors Bay							
						Teddington ZS - HA8/38 , CB 111 - Governors Bay							
						Teddington ZS - HA8/38 , CB 111 - Governors Bay							
						Teddington ZS - HA8/38 , CB 111 - Governors Bay							
						Main Rd - HA3/8, ABI							
						Governors Bay Rd - HA3/19							
						Teddington ZS - HA8/38 , CB 111 - Governors Bay							

- 44 Note that the website screenshot was taken part way through the outage, and during restoration work additional connections were affected and recorded as separate stages to the outage.
- The results in the above outage statistics report are checked for accuracy by our network control centre, with results reviewed against operating orders. At the end of each month, following checks and validation, a final report for the month is signed off by the control centre manager.
- 46 For each outage the following details are recorded:
 - 46.1 interruption type (planned or unplanned, originating on Orion's network or on Transpower's network);
 - 46.2 district substation affected;
 - 46.3 feeder affected;
 - 46.4 asset type affected;
 - 46.5 cause of interruption;
 - 46.6 time/date off for each loss of supply stage;
 - 46.7 time/date for each restoration stage;
 - 46.8 number of consumers affected in each stage; and
 - 46.9 explanatory notes.

47 Finally, to establish our system-average reporting measures, the total number of connected consumers on the network is obtained from our connections database. We maintain details of all our network connections on this database, and we regularly undertake reconciliations with the Electricity Authority Registry.

System fixed assets transferred from Transpower

- 48 Clause 10.5 of the CPP determination requires us to demonstrate whether or not assets transferred during the assessment period have increased our assessed reliability values. Orion did not transfer any system fixed assets from Transpower during the assessment period, so there is no impact on assessed values.
- 49 However, there were interruptions recorded on assets transferred from Transpower prior to the assessment period. These interruptions contributed and are included in our assessed values as follows:

Assets involved	Bromley zone substation	Springston zone substation
Date purchased form Transpower	1 April 2014	31 March 2014
Fault number	INCD-196702-B / INCD-196705-B	INCD-200527-B
Date	29/05/2017	22/07/2017
Cause	Plant failure – Faulty 66kV Disconnect	Plant failure during storm
Description	As a result of equipment taken out of service for maintenance, current was distributed over the remaining equipment and the 66kV Disconnect failed under the additional load.	During a 48 hour period of torrential rain and gale force winds, a tap changer failed on the 66kV Transformer in Springston GXP. A loss of supply was suffered by Springston, Lincoln, Rolleston, Highfield, Motukarara, Hills Rd, Teddington, Duvauchelle, Diamond Harbour and Little River zone substations.
Connections affected	24,983	16,152
Connection minutes lost	354,371	880,971
Average outage duration	14 minutes	55 minutes
Contribution to SAIDI	1.8 minutes	4.6 minutes
Contribution to SAIFI	0.13 interruptions	0.08 interruptions

50 These ex-transmission assets supply wide areas and the contribution to outage results, particularly to SAIFI, is significant. Further, unlike the updated default price path determinations, our customised price path does not allow for these short duration events to be classified as extreme event days, and our SAIFI cap of 0.07 per day is not able to be applied.

Reliability limits

51 The reliability limits are given in table 2 of schedule 3 of the CPP determination as:

	FY18	FY17	FY16
SAIDI LIMIT	82.4	91.0	94.7
SAIFI LIMIT	1.02	1.16	1.21

Assessed values

- 52 The total duration and number of outages is accumulated to calculate the SAIDI and SAIFI indices. The results (prior to normalising the data for extreme events) were:
 - 52.1 Duration of interruptions:

	FY18	FY17	FY16
Unplanned minutes lost (class C)	12,931,922	13,409,857	18,596,504
Planned minutes lost (class B)	2,869,551	2,245,566	3,210,010
	15,801,473	15,655,423	21,806,514
Average number of customers	199,838	196,421	192,857
SAIDI			
Unplanned	64.71	68.27	96.43
Planned	14.36	11.43	16.64
Total	79.07	79.70	113.07

52.1 Frequency of interruptions:

	FY18	FY17	FY16
Unplanned outages (class C)	185,663	143,544	216,846
Planned outages (class B)	13,321	8,014	12,245
	198,984	151,558	229,091
Average number of customers	199,838	196,421	192,857
SAIFI			
Unplanned	0.93	0.73	1.12
Planned	0.07	0.04	0.06
Total	1.00	0.77	1.19

Normalising the reliability results

- The CPP determination provides for the normalisation of reliability results to mitigate the impact of extreme events and provide a view of underlying network reliability. In the current assessment period we identified one day that met the definition of a major event day (MED) when the daily SAIDI exceeded the 5.0 minute boundary value given in the CPP determination. Major event days for prior assessment periods (as identified in prior compliance statements) use higher boundary values.
- 54 The assessment dataset is normalised by adjusting the results on major event days by replacing the daily SAIDI with the applicable SAIDI boundary value, and reducing the daily SAIFI to the applicable SAIFI boundary value (if it is greater). The normalisation changes for prior and the current assessment period are:

Date	Daily SAIDI adjustment	Daily SAIFI adjustment	Cause
FY16			
18 June 2015	23.73 reduced to 5.7	0.027 unchanged	A major snow storm occurred affecting the inland rural area of our network, west of Darfield. Some
19 June 2015	8.52 reduced to 5.7	0.028 unchanged	 extended outages occurred where access became difficult including in our remote Coleridge and Castle Hill distribution areas.
10 October 2015	6.79 reduced to 5.7	0.082 reduced to 0.08	Fault protection tripped at our 33kV Springston substation as a result of bird nesting in the substation equipment. This caused a widespread outage affecting almost 16,000 rural customers. The majority were restored in just over an hour and the rest were progressively restored over the following 4 hours.
FY17			
5 November 2016	6.39 reduced to 5.5	0.009 unchanged	An early morning fault occurred at the termination of our double-circuit overhead line that feeds Lyttelton, damaging both circuits, and cutting power to 1700 connections in the area. We deployed generators to key loads in the township and restored full supply by 5pm. The close physical proximity of the two feeder circuits is an issue and we are part way through a project to address this, as well as working with a third party to establish an alternative supply route.
FY18 (current asses	sment period)		
22 January 2018	5.02 reduced to 5.0	0.062 unchanged	 This was caused by a number of smaller events coinciding, the main contributors being: Two 33kV cable joint faults feeding Hornby zone substation that occurred at the same time as planned work by Transpower, which delayed restoration, and A 33kV cable termination fault in the feed to

55 Applying the normalisation adjustments to our calculated SAIDI and SAIFI results provides a result that is compared to the respective limits, as follows:

55.1 Duration of interruptions:

	FY18	FY17	FY16
SAIDI result	79.07	79.70	113.07
less normalisation adjustments	(0.02)	(0.89)	(21.94)
Normalised SAIDI*	79.05	78.81	91.13
Annual SAIDI Limit (from above)	82.40	91.0	94.7
Annual reliability result	Comply	Comply	Comply

* Calculated from unrounded components which affects the result

55.2 Frequency of interruptions:

	FY18	FY17	FY16
SAIFI result	1.00	0.77	1.19
less normalisation adjustments	0.00	0.00	(0.002)
Normalised SAIFI*	1.00	0.77	1.19
Annual SAIFI Limit (from above)	1.02	1.16	1.21
Annual reliability result	Comply	Comply	Comply

* Calculated from unrounded components which affects the result

- 56 Clause 8.1 of the CPP determination requires that we either:
 - 56.1 comply with the annual reliability requirement for the assessment period (FY18), or
 - 56.2 have complied with the annual reliability requirement in both the preceding two extant assessment periods (FY16 and FY17).
- 57 We have complied with both tests.

TRANSACTIONS

Large transactions and amalgamations

- 58 We have not been a party to any large transactions during the assessment period that would meet the thresholds in clause 9.1 of the CPP determination.
- 59 We have not completed an amalgamation or merger during the assessment period in terms of clause 9.2 of the CPP determination.
- 60 We have not been involved in a transfer of assets governed by clause 9.3 of the CPP determination during the assessment period.

APPENDIX A – DELIVERY AND EXPORT PRICE SCHEDULES

Delivery prices



(applicable from 1 April 2017 to 31 March 2018)

This schedule lists the wholesale prices that Orion uses to charge electricity retailers and directly contracted customers for the electricity delivery service in Orion's network area. This delivery service includes the transmission and distribution of electricity to homes and businesses, but does not include the cost of the electricity itself. Please refer to your electricity retailer for details of retail electricity prices.

	Price Component Code ³	Delivery Price	All prices exclud GST
Streetlighting connections	a	pprox 48,266 connecti	ions
Fixed charge	STFXD	0.1129	\$/con/day
Peak charge (peak period demand)	GENPK	0.5310	\$/kW/day
Volume charge			
Weekdays (Mon to Fri, 7am to 9pm)	VOLWD	0.08773	\$/kWh
Nights & weekends (Sat & Sun)	VOLNW	0.01125	\$/kWh
General connections	a	pprox 198,087 connec	tions
Peak charge (peak period demand)	GENPK	0.5310	\$/kW/day
Volume charge			
Weekdays (Mon to Fri, 7am to 9pm)	VOLWD	0.08773	\$/kWh
Nights & weekends (Sat & Sun)	VOLNW	0.01125	\$/kWh
Low power factor charge	LOWPF	0.2000	\$/kVAr/day
Irrigation connections	a	pprox 1,102 connectio	ns
Capacity charge	ICCAP	0.4197	\$/kW/day*
Volume charge			
Weekdays (Mon to Fri, 7am to 9pm)	VOLWD	0.08773	Ś/kWh
Nights & weekends (Sat & Sun)	VOLNW	0.01125	\$/kWh
Rebates			
Power factor correction rebate	ICPFC	(0.1793)	\$/kVAr/day*
Interruptibility rebate	ICIRR	(0.0448)	\$/kW/day*
* applied from 1 October to 31 March only			
Major customer and embedded network connections	a	pprox 404 connections	5
Fixed charge	MCFXD	1.8900	\$/con/day
Extra switches	EQESW	3.5400	\$/switch/day
11kV Metering equipment	EQMET	4.2900	\$/con/day
11kV Underground cabling	EQUGC	3.1700	\$/km/day
11kV Overhead lines	EQOHL	2.0000	\$/km/day
Transformer capacity	EQTFC	0.0133	\$/kVA/day
Peak charge (control period demand)	MCCPD	0.4857	\$/kVA/day
Nominated maximum demand	MCNMD	0.1049	\$/kVA/day
Metered maximum demand	MCMMD	0.0848	\$/kVA/day
Large capacity connections	1	2 connections	
Individually assessed prices advised and charged directly	to the customers		
Miscellaneous			
Monthly invoice and contract charge to	INVFXD	30.00	\$/invoice
retailers and directly contracted customers			

Notes

1. Full details on how we apply these prices are included in our Pricing Policy document, available on our website.

2. Peak and volume prices for streetlighting, general connections and irrigation connections are applied to peak loadings and volumes derived from measurements taken at grid exit points, and it is appropriate to allow for normal network losses when assessing the contribution individual connections make to these charges. All other prices in this schedule are applied against measurements or ratings taken at the connection.

3. The price component code is used in our mandatory 'electricity information exchange protocol' files.

Delivery prices



This schedule lists the wholesale prices that Orion uses to charge electricity retailers and directly contracted customers for the electricity delivery service in Orion's network area. This delivery service includes the transmission and distribution of electricity to homes and businesses, but does not include the cost of the electricity itself. Please refer to your electricity retailer for details of retail electricity prices.

	Price Component Code ³	Delivery Price	All prices exclud GST
Streetlighting connections	a	pprox 47,119 connect	ions
Fixed charge	STFXD	0.1166	\$/con/day
Peak charge (peak period demand)	GENPK	0.5325	\$/kW/day
Volume charge			
Weekdays (Mon to Fri, 7am to 9pm)	VOLWD	0.08642	\$/kWh
Nights & weekends (Sat & Sun)	VOLNW	0.01106	\$/kWh
General connections	а	pprox 192,636 connec	tions
Peak charge (peak period demand)	GENPK	0.5325	\$/kW/day
Volume charge			
Weekdays (Mon to Fri, 7am to 9pm)	VOLWD	0.08642	\$/kWh
Nights & weekends (Sat & Sun)	VOLNW	0.01106	\$/kWh
Low power factor charge	LOWPF	0.2000	\$/kVAr/day
Irrigation connections	a	pprox 1,122 connectio	ons
Capacity charge	ICCAP	0.4920	\$/kW/day*
Volume charge			
Weekdays (Mon to Fri, 7am to 9pm)	VOLWD	0.08642	\$/kWh
Nights & weekends (Sat & Sun)	VOLNW	0.01106	\$/kWh
Rebates			
Power factor correction rebate	ICPFC	(0.1793)	\$/kVAr/day*
Interruptibility rebate	ICIRR	(0.0448)	\$/kW/day*
* applied from 1 October to 31 March only			
Major customer and embedded network connections	а	pprox 387 connection	5
Fixed charge	MCFXD	1.8565	\$/con/day
Extra switches	EQESW	5.0100	\$/switch/day
11kV Metering equipment	EQMET	7.0500	\$/con/day
11kV Underground cabling	EQUGC	2.9500	\$/km/day
11kV Overhead lines	EQOHL	1.9100	\$/km/day
Transformer capacity	EQTFC	0.0168	\$/kVA/day
Peak charge (control period demand)	MCCPD	0.4891	\$/kVA/day
Nominated maximum demand	MCNMD	0.0899	\$/kVA/day
Metered maximum demand	MCMMD	0.1001	\$/kVA/day
Large capacity connections	1	2 connections	
Individually assessed prices advised and charged directly	to the customers		
Miscellaneous			
Monthly invoice and contract charge to	INVFXD	30.00	\$/invoice
retailers and directly contracted customers			

Notes

1. Full details on how we apply these prices are included in our Pricing Policy document, available on our website.

2. Peak and volume prices for streetlighting, general connections and irrigation connections are applied to peak loadings and volumes derived from measurements taken at grid exit points, and it is appropriate to allow for normal network losses when assessing the contribution individual connections make to these charges. All other prices in this schedule are applied against measurements or ratings taken at the connection.

3. The price component code is used in our mandatory 'electricity information exchange protocol' files.



Export and generation credits

(applicable from 1 April 2017 to 31 March 2018)



This schedule lists the credit prices that we use to credit electricity retailers or directly contracted customers for exports or contributions from their distributed generation. The credits do not represent the purchase of electricity. They are a recognition of the value to Orion in providing its delivery service. Credits are only available for generation approved by Orion and customers must apply in advance. For further details refer to our *Export and Generation Credits Policy* document, available on our website.

Export credit pricing

Orion provides credits for electricity exported on to Orion's network during specified periods. The prices for these credits are:

Generator rated output	Period applied	Price Component Code ³	Credit Price	All prices exclude GST
0 - 30kW generation ²				
Anytime credits (without PV), or	Anytime	EXPA	0.00930	\$/kWh
Anytime credits (with PV)	(24 hours, 7 days)	EXPAPV	0.00030	\$/kWh
0 - 30kW generation ²				
Peak period credits (with or without PV)	Chargeable peak period	EXPPP	0.64860	\$/kWh
30 - 750kW Control period credits ⁴				
- real power, plus	Chargeable control	EXPCP1	0.2221	\$/kW/day
- reactive power ⁵	period	EXPCP2	0.0298	\$/kVAr/day

above 750kW

Individually assessed prices provided on application

Notes for export credit pricing

- 1. Full details covering generation and metering requirements and application of prices are included in our Export and Generation Credits Policy document, available on Orion's website.
- Small 0 to 30kW generators may elect (in advance) to receive the alternative peak period based credits, subject to the installation
 of appropriate metering to record peak period export.
- 3. The price component code is used in our mandatory 'electricity information exchange protocol' files.
- 4. Control period credits are assessed during control periods and applied as an annual credit at 365 times the daily credit price.
- 5. Credit quantities for reactive power (kVAr) export is limited to 33% of the credit quantity for real power (kW) export in each half hour period, the equivalent of exporting with a 0.95 lagging power factor.
- 6. Approximately 18 connections are approved for export credits.

Generation credit pricing (closed)

The generation credits arrangement is closed and is not available to any new generation. For existing participating generation we signal "generation periods" and provide a credit that reflects generation support provided at times when the export credit (above) is not available. These credits are based on the generated volume, regardless of whether this results in export from the connection.

Generator rated output	Period applied	Price Component Code ³	Credit Price	All prices exclude GST
All participating generation (not available to any further generation)	Orion's ripple signalled generation period	GEN1	0.50000	\$/kWh

Notes for generation credit pricing

- 1. Full details covering generation and metering requirements and application of prices are included in our *Export and Generation Credits Policy* document, available on Orion's website.
- 2. These prices apply for the current group of approved generation during our ripple signalled generation period. The total duration of generation periods is likely to vary significantly from year to year. In some years there may be no generation periods.
- 3. The price component code is used in our mandatory 'electricity information exchange protocol' files.
- 4. Approximately 16 connections are approved for generation credits.

Export and generation credits

(applicable from 1 April 2016 to 31 March 2017)



This schedule lists the credit prices that we use to credit electricity retailers or directly contracted customers for exports or contributions from their distributed generation. The credits do not represent the purchase of electricity. They are a recognition of the value to Orion in providing its delivery service. Credits are only available for generation approved by Orion and customers must apply in advance. For further details refer to our *Export and Generation Credits Policy* document, available on our website.

Export credit pricing

Orion provides credits for electricity exported on to Orion's network during specified periods. The prices for these credits are:

Generator rated output	Period applied	Price Component Code ³	Credit Price	All prices exclude GST
0 - 30kW generation ²				
Anytime credits (without PV), or	Anytime	EXPA	0.01128	\$/kWh
Anytime credits (with PV)	(24 hours, 7 days)	EXPAPV	0.00039	\$/kWh
0 - 30kW generation ²				
Peak period credits (with or without PV)	Chargeable peak period	EXPPP	0.79020	\$/kWh
30 - 750kW Control period credits ⁴				
- real power, plus	Chargeable control	EXPCP1	0.2706	\$/kW/day
- reactive power ⁵	period	EXPCP2	0.0299	\$/kVAr/day

above 750kW

Individually assessed prices provided on application

Notes for export credit pricing

- 1. Full details covering generation and metering requirements and application of prices are included in our Export and Generation Credits Policy document, available on Orion's website.
- Small 0 to 30kW generators may elect (in advance) to receive the alternative peak period based credits, subject to the installation
 of appropriate metering to record peak period export.
- 3. The price component code is used in our mandatory 'electricity information exchange protocol' files.
- 4. Control period credits are assessed during control periods and applied as an annual credit at 365 times the daily credit price.
- 5. Credit quantities for reactive power (kVAr) export is limited to 33% of the credit quantity for real power (kW) export in each half hour period, the equivalent of exporting with a 0.95 lagging power factor.
- 6. Approximately 18 connections are approved for export credits.

Generation credit pricing

In addition to the credits above, Orion provides credits for generation at other times. These credits are based on the generated volume, regardless of whether this results in export from the connection, and are available to consumers with generation in excess of 500kW.

Generator rated output	Period applied	Price Component Code ³	Credit Price	All prices exclude GST
500 - 1200kW Generation period	Orion's ripple signalled generation period	GEN1	0.60000	\$/kWh
above 1200kW	Individually assessed price	s provided on application		

Notes for generation credit pricing

- 1. Full details covering generation and metering requirements and application of prices are included in our *Export and Generation Credits Policy* document, available on Orion's website.
- These prices apply for pre-approved generation during our ripple signalled generation period. The total duration of generation periods is likely to vary significantly from year to year. In some years there may be no generation periods.
- 3. The price component code is used in our mandatory 'electricity information exchange protocol' files.
- 4. Approximately 16 connections are approved for generation credits.

APPENDIX B - EVIDENCE OF RECOVERABLE COST AMOUNTS PAID TO TRANSPOWER

The invoices below provide the evidence required by clause 10.3(e) of the determination of charges paid to Transpower and included as recoverable costs. A representative set of monthly invoices (January 2017) is shown for amounts that remain the same for most of the year.

The amounts included in the invoices below can be cross-referenced against all recoverable cost amounts paid to Transpower included in the schedule in Appendix D.

TRA	N S P O W E R Transpower New Zealand Ltd Th	e National Grid PO Box 1021 Wellington 6140 New Zealand	 64 04 495 7000 64 04 495 6968 revenue@transprover.co.ii Keeping the energy flowing
Orion New Zeal PO BOX 13896 CHRISTCHURCH		Tax Invoice 0001102 GST No: 50-038-0 Invoice Date: 21/04/20 Customer ID: ORON Account Manager: Nicola D Due Date: 20/05/20 Page: 1	057 017 ownes-Hogg
Reference	Description	Amount	
Arthurs Pass	Connection Charge for Apr 2017	13,125.19 🗸	
Arthurs Pass	Interconnection Charge for Apr 2017 Sub-Total Arthurs Par	1,756.38 🗸	14,881.57
Bromley	Connection Charge for Apr 2017	164,850.33 🗸	
Bromley	Interconnection Charge for Apr 2017 Sub-Total Bromley	1,110,612.84 🗸	1,275,463.17
Castle Hill	Connection Charge for Apr 2017	10,440.68	1
Castle Hill	Interconnection Charge for Apr 2017 Sub-Total Castle Hill	2,944.53 🧹	13,385.21
Coleridge	Connection Charge for Apr 2017	12,052.36 🦯	
Coleridge	Interconnection Charge for Apr 2017 Sub-Total Coleridge	2,159.32 🧹	14,211.68
Hororata	Connection Charge for Apr 2017	41,700.05 🦯	1
Hororata	Interconnection Charge for Apr 2017 Sub-Total Hororata	248,827.86 🧹	290,527.91
Islington	Connection Charge for Apr 2017	154,849.51 🗸	
Islington	Interconnection Charge for Apr 2017 Sub-Total Islington	3,992,011.36 🗸	4,146,860.87
Kimberley	Interconnection Charge for Apr 2017	76,371.68 🗸	

TR	A N S P O W E R	Transpower New Zealand	Ltd The National Grid	PO Box 1021 Wellington 6140 New Zealand	 F 54 04 495 7000 F 64 04 495 6958 revenue/@transpower.co.m Keeping the energy flowing
Orion New Ze PO BOX 13896 CHRISTCHURC			Tax Invoice GST No: Invoice Date: Customer ID: Account Man Due Date: Page:	50-038-0 21/04/20 ORON	57 17 ownes-Hogg
Reference	Description			Amount	
Kimberley	2017	Charges at Kimberle Sub-Total Kimberley		1,813.78 🦯	78,185.46
			Jou to	lay. >. 1/5/17.	
				5	
				Net Total: GST: Total:	\$5,833,515.87 \$875,027.38 \$6,708,543.25

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SPOWER Transpower New 2

Transpower New Zealand Ltd The National Grid

New Zealand

revenue@transpower.co.nz

Keeping the energy flowing

Orion New Zealand Limited PO BOX 13896 CHRISTCHURCH 8141 Tax Invoice GST No: Invoice Date: Customer ID: Account Manager: Due Date: Page:

0001102830 50-038-057 21/04/2017 ORON Nicola Downes-Hogg 20/05/2017 1 of 1

Reference		Description	Amount	
Bromley	60073-61	New Investment Charge - Bromley Third 220/66 kV Transformer T7 for Apr 2017 Sub-Total Bromley	64,000.00 🗸	64,000.00
B615010 Hororata R20630	602 24	New Investment Charge for additional 66kV feeder for Apr 2017	1,949.38 🧹	
B615010 Hororata	1347.14	New Investment Charge for Hororata Connection for Fonterra Dairy Factory	1,919.00 🧹	
R206730	754-13	for Apr 2017		
B615010	1164-57	Sub-Total Hororata		3,868.38
Islington		CIC Charge for ADD and MLN Asset	7,464.21 🗸	
RIGETZO		Transfer Build ISL-CUS-12366-ORON for Apr 2017		
BLISOIO Islington		CIC Charge for Jelington SEW/ Matering	13,218.00	
R 206730	8016.76	project for Papanul and Springston - Final for Apr 2017	°	
BLISOID	5201-24	Sub-Total Islington		20,682.21
Kimberley		New Investment Charge for Kimberley for	84,471.00	
RJ06730	31223	Apr 2017 Sub-Total Kimberley		84,471.00
8615010	54245-1	JOK	10 Pay D. 1517	ß
			Net Total: GST: Total:	\$173,021.59 \$25,953.24 \$198,974.83

TRANSPOWER

PO Box 1021, Wellington 6140 P 64 4 590 7000 New Zealand E revenue@transpower.co.nz

Orion New Zealand Limited PO BOX 13896 CHRISTCHURCH 8141

Tax Invoice GST No: Invoice Date: Customer ID: Account Manager: Due Date: Page:

0001105846 50-038-057 31/01/2018

ORON Nicola Downes-Hogg 20/02/2018 1

Reference	Description	Amount	
Arthurs Pass	Connection Charge for Jan 2018	13,125.19 🗸	
Arthurs Pass	Interconnection Charge for Jan 2018 Sub-Total Arthurs Pass	1,756.38 🗸	14,881.57
Bromley	Connection Charge for Jan 2018	137,688.26 🗸	Bisinkey tx rec
Bromley	Interconnection Charge for Jan 2018 Sub-Total Bromley	1,110,612.84 🗸	1,248,301.10
Castle Hill	Connection Charge for Jan 2018	10,440.68 🗸	
Castle Hill	Interconnection Charge for Jan 2018 Sub-Total Castle Hill	2,944.53 🗸	13,385.21
Coleridge	Connection Charge for Jan 2018	12,052.36 🗸	
Coleridge	Interconnection Charge for Jan 2018 Sub-Total Coleridge	2,159.32 🗸	14,211.68
Hororata	Connection Charge for Jan 2018	41,700.05 🗸	
Hororata	Interconnection Charge for Jan 2018 Sub-Total Hororata	248,827.86 🗸	290,527.91
Islington	Connection Charge for Jan 2018	154,849.51 🗸	
Islington	Interconnection Charge for Jan 2018 Sub-Total Islington	3,992,011.36	4,146,860.87
	Interconnection Charge for Jan 2018	76,371.68	

TR	A N S P O W E R	PO Box 1021, Wellin New Zealand		64 4 590 7000 revenue@transpower.c
Orion New Ze PO BOX 13896 CHRISTCHURG		Credit Note: GST No: Invoice Date: Customer ID: Account Manager: Due Date: Page:	00011058 50-038-05 31/01/2012 ORON Nicola Dov 20/02/2012 1 of 1	7 8 wnes-Hogg
Reference	Description	A	mount	
	Wash Up for BRY Connection Oc Wash Up for BRY Connection Do Wash Up for BRY Connection Do Sub-Total	ovember 2017 (27,1	62.07) 62.07) 62.07) 2 1 8 .	(81,486.21)
			Net Total: GST: Total:	(\$81,486.21) (\$12,222.93) (\$93,709.14)

APPENDIX C – INFORMATION SUPPORTING AVOIDED TRANSMISSION CHARGES

Clauses 10.3(d)(ii) and (iii) of the CPP determination set out information requirements in relation to amounts claimed as avoided transmission charges, including the amount actually charged in the year prior to an amount first being recovered.

Clause 10.3(d)(ii) of the CPP determination suggests that the amount that would have been charged by Transpower is equivalent to the amount specified in a pricing schedule for the year preceding the assessment period. This is not the case, and is not consistent with the Input Methodologies applying to our CPP. Transpower updates its charges each year and the amounts generally change, and we have calculated this updated amount and included it as an avoided transmission cost.

The calculations are consistent with those provided in our previous compliance statement with the following updates:

Transpower cost component	FY18	FY17
Asset return	8.26%	7.97%
Maintenance recovery rate substations	1.83%	1.87%
Maintenance recovery rate tower lines	\$4,980 / km	\$5,326 / km
Operating recovery rate 66kV	\$1,207 / switch	\$1,017 / switch

The calculation of the amounts avoided is based on the individual assets within the schedules that were purchased (or where the purchase avoids the change) using updated asset return, operating and maintenance figures, as follows:

		Addington/Middletor		-				
		Charges recalculated 2017/18	using standard i	ecovery rat	5			
			Asset return Z	Maintenance recovery Rate	recovery on 66k¥ Line	Number of Switche	Operating recovery on 66kY Line	Total aroided
			8.26%	1.83%	\$4,980 /km		\$1,207 <i>1</i> switch	
Addington		Addiagtos						
Substation	Addington	No residual land charge	505,669.28	112,030.84				617,700.1
Substation	Islington TO	Charged at ISL instead	74 007 00	10 450 40				00 740 0
Transformer	T2 T2		74,287.92	16,458.46				90,746.3
Fransformer	T3		74,287.92	16,458.46				90,746.3 74 967 3
Fransformer	T5 T6		61,288.79	13,578.51				74,867.3
Transformer Transformer	16 T7		81,718.39 61,288.79	18,104.68 13 578 51				99,823.0 74,867.3
Transformer Switchgear			6,587.88	13,578.51		0.90	1,086.30	74,867 9,133.1
	3			1,459.54				
Bwitchgear Bwitchgear	4 5		6,587.88 6,587.88	1,459.54		0.90 0.90	1,086.30	9,133.1 9,133.1
Switchgear				1,459.54			1,086.30	
Switchgear	6		6,587.88	1,459.54		0.90	1,086.30	9,133.1
Switchgear	7		6,587.88	1,459.54		0.90	1,086.30	9,133.1
ôwitchgear	8		6,587.88	1,459.54		0.90	1,086.30	9,133.1
ôwitchgear	9		6,587.88	1,459.54		0.90	1,086.30	9,133.1
ôwitchgear	10		6,587.88	1,459.54		0.90	1,086.30	9,133.1
Switchgear	11		6,587.88	1,459.54		0.90	1,086.30	9,133.1
Switchgear	28		6,790.36	1,504.40		1.00	1,207.00	9,501.1
Switchgear	29		6,790.36	1,504.40		1.00	1,207.00	9,501.1
Switchgear	30		6,790.36	1,504.40		1.00	1,207.00	9,501.1
Switchgear	42		39,703.13	8,796.21		3.60	4,345.20	52,844.5
6witchgear	52		27,117.88	6,007.96		4.00	4,828.00	37,953.8
6witchgear	62		39,703.13	8,796.21		3.60	4,345.20	52,844.5
Switchgear	72		18,500.31	4,098.74		2.00	2,414.00	25,013.0
Switchgear	82		18,500.31	4,098.74		2.00	2,414.00	25,013.0
owitchgear	92		18,500.31	4,098.74		2.00	2,414.00	25,013.0
Switchgear	102		27,117.88	6,007.96		2.00	2,414.00	35,539.1
owitchgear	112		18,500.31	4,098.74		2.00	2,414.00	25,013.
ówitchgear	122		39,703.13	8,796.21		3.70	4,465.90	52,965.
ôwitchgear	132		39,703.13	8,796.21		4.00	4,828.00	53,327.3
Switchgear	142		39,703.13	8,796.21		3.70	4,465.90	52,965.2
Switchgear	172		39,703.13	8,796.21		3.60	4,345.20	52,844.
ôwitchgear	252		39,703.13	8,796.21		4.00	4,828.00	53,327.3
Switchgear	592		27,117.88	6,007.96		4.00	4,828.00	37,953.3
Switchgear	2642		6,073.36	1,345.55		0.90	1,086.30	8,505.
Switchgear	2662		6,073.36	1,345.55		0.90	1,086.30	8,505.
Switchgear	2672		6,423.08	1,423.03		1.00	1,207.00	9,053
6witchgear	2682		6,073.36	1,345.55		0.90	1,086.30	8,505.
Switchgear	2698		6,213.24	1,376.54		1.00	1,207.00	8,796.1
Switchgear	2702		6,073.36	1,345.55		0.90	1,086.30	8,505.
Bwitchgear Bwitchgear	2722		6,073.36 6.073.36	1,345.55		0.90	1,086.30	8,505. 8,505
ówitchgear Switchgear	2742		6,073.36 6.073.36	1,345.55		0.90	1,086.30	8,505. 8,505
ówitchgear Switchgear	2762		6,073.36 6.073.36	1,345.55		0.90	1,086.30	8,505. 8,505.
Switchgear	2782		6,073.36	1,345.55		0.90	1,086.30	
Switchgear	2798		6,213.24	1,376.54		1.00	1,207.00	8,796.° 8,505.
Switchgear	2802		6,073.36	1,345.55		0.90	1,086.30	
Switchgear	2812		6,423.08	1,423.03		1.00	1,207.00	9,053
Bwitchgear	2822		6,073.36	1,345.55		0.90	1,086.30	8,505.
Switchgear	2842		6,073.36	1,345.55		0.90	1,086.30	8,505.
Bwitchgear	127-117		6,479.23	1,435.47		2.00	2,414.00	10,328.1
Bwitchgear	147-137		6,479.23	1,435.47		2.00	2,414.00	10,328.1
Switchgear	67-57		6,479.23	1,435.47		2.00	2,414.00	10,32

Continued ...

Switchgear Switchgear	87-77 97-107 RM122 RM122 RM142 RM172 RM2672 RM28 RM2812 RM29 RM30 RM42 RM62 VT124 VT144 VT144 VT144 VT144 VT144 VT144 VT164 152 172 172 192 202 ADD_ISLA ADD_ISLA ADD_ISLB Cable_MLN R5 R6 R7	Charged at ISL instead Charged at ISL instead Charged at ISL instead Charged at ISL instead	6,473,23 6,473,23 3,703,85 3,703,85 2,563,06 2,513,42 2,563,06 2,513,42 2,513,42 2,513,42 3,703,85 3,703,95 3,7	1,435,47 1,435,47 821,92 821,92 821,92 856,9,17 556,85 556,85 556,85 821,92 301,83 30,83 30	61,067.69 61,067.69	2.00	2,414.00 2,414.00	10,328,70 10,328,70 4,531,77 4,531,77 3,138,23 3,070,27 3,070,27 4,531,77 4,531,77 1,664,17 1
Other			0,121.01	1,403.03		To	tal	2,706,179.54
								_,,
Middleton Substation Substation Transformer Transformer Switchgear	7	2	709,450,69 - 61,288,79 61,288,79 27,117,88 18,500,31 18,500,31 18,500,31 18,500,31 39,703,13 39,703,13 39,703,13 39,703,13 27,117,88 6,479,23 6,479,23 6,479,23 6,479,23 6,479,23 6,479,23 1,362,34 1,362,34 1,362,34	157,178.54 - 13,578.51 18,104.68 13,578.51 6,007.96 4,098.74 4,098.74 4,098.74 4,098.74 8,796.21 8,796.21 8,796.21 6,007.96 1,435.47 1,435.47 1,435.47 1,435.47 1,435.47 1,435.47 1,435.47 1,435.47 1,435.47 1,435.47				
Switchgear Switchgear Switchgear Switchgear Line Line Line Other Other	406 416 RM406 RM416 ADD_ISLA ADD_ISLB Cable_MLN R5 R6 R7	Asset cost covered under CIC Asset cost covered under CIC Asset cost covered under CIC Asset cost covered under CIC Asset cost covered under CIC		4,729,23 4,729,23 821,92 821,92 1,489,05 1,489,05 1,489,05 1,489,05	61,067.69 61,067.69	0.90 0.90	1,086.30 1,086.30 - - -	5,815,53 5,815,53 821,92 821,92 77,993,88 53,627,21 - - - -
						То	tal	144,895.99

Combined total 2,851,075.53

Asset Asset of the second of the			Bromley avoided connection cha Charges recalculated using stan		ates	Land proportion pu	urchased	8.64%	
Lock 1326 1326 1326 1327 1327 1327 1327 Transform Ti Ti 13 132 1327 1328	Accet	Acceld	2017/18	Accet roturn	Maintenance	Maintananaa	Number of	Onerating	Total avaidad
Tardsonner T2 T2 <tht2< th=""> T2 T2</tht2<>	Asset	Assecia					Number or		i otal avoided
Transformer T0 SSM000 SSM000 SSM000 SSM000 SSM000 SSM000 Transformer T6 Notpushard SSM000 SSM0000 SSM0000 SSM0	Substation	Bromley	Partial purchase (proportion of land)	17,164.29	3,802.74				20,967.03
Turasioner T P1 P2/28/27 8,00149 P0/24/27 Turasioner T0 Notporthand - <	Transformer								107,248.85
Tandomari T5 Not parkased Strategie 7 Not parkased 30,07,47 40,0052 20 2,44,00 4,42,20 Strategie 8 24,2112 5,34,44 20 3,22,10 5,34,44 Strategie 8 24,2112 5,34,44 20 3,22,10 5,34,44 Strategie 8 20,000 4,44,00 4,42,20 20,000 4,44,00 4,42,20 Strategie 12 20,000 4,44,00 4,42,20 20,000 4,44,00 2,20,000 2,44,00 4,42,20 20,000 2,44,00 4,42,20 20,000 2,44,00 4,42,20 20,000 2,44,00 2,20,000 2,44,00 2,20,000 2,44,00 2,20,000 2,44,00 2,20,000 2,44,00 2,20,000 2,44,00 2,20,000 2,44,000 2,20,000 2,20,000 2,20,000 2,20,000 2,20,000 2,20,000 2,20,000 2,20,000 2,20,000 2,20,000 2,20,000 2,20,000 2,20,000 2,20,000 2,20,000									80,436.64
Tationner T Norpskaled Sinnigser 2 244.00 247.02 3.0 257.00	Transformer	T4		87,797.37	19,451.48				107,248.85
Transmer T No parksard Swingser 6 244.00 244.00 32.00.00 Swingser 6 32.00.00 4.782.01 38.00 24.00.00 Swingser 6 32.00.00 4.782.01 38.00 32.00.00 Swingser 80.00 4.00.00 4.42.00 32.00.00 4.42.00 Swingser 80.00 4.00.00 4.00.00 4.62.00 32.00.00 Swingser 84 Antonger 32.00.00 4.78.21 3.00 4.65.00 32.00.00 Swingser 84 Antonger 32.00.00 105.23 100 100.00 32.00.00 32.00.00 32.00.00 32.00.00 32.00.00 100.00 32.00.00 100.00 32.00.00 100.00 32.00.00 100.00 32.00.00 100.00 32.00.00 100.00 32.00.00 100.00 32.00.00 100.00 32.00.00 100.00 32.00.00 100.00 32.00.00 100.00 32.00.00 100.00 32.00.00 100.00.00 <td>Transformer</td> <td>Т5</td> <td>Not purchased</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Transformer	Т5	Not purchased						
Sindpart 62 44.423 80.074.7 400.82 20.0 2.4400 84.423 Sindpart 7 20.00 2.420.0 5.00 2.000 <									
Samply B0032.10030.081Samply D0032.00030.081Samply D0037.00030.081Samply D0037.00030.081Samply D0037.00030.081Samply D000030.081Samply D000030.081Samply D000030.081Samply D000030.081Samply D0030.08130.081Samply D0030.09130.081Samply D0030.09130.081Samply D0030.09130.091Samply D0030.09130.091Samply D0030.09130.091Samply D0030.09130.091Samply D0030.09130.091Samply D0030.09130.091Samply D0030.091 </td <td>Switchgear</td> <td></td> <td></td> <td>18,057.47</td> <td>4,000.62</td> <td></td> <td>2.00</td> <td>2,414.00</td> <td>24,472.09</td>	Switchgear			18,057.47	4,000.62		2.00	2,414.00	24,472.09
Skataja 92	Switchgear			39,703.13	8,796.21		3.80		53,085.94
Skothjest 102 102 24.4421 54.4421 Skothjest 12 <t< td=""><td>Switchgear</td><td></td><td></td><td>24,121.62</td><td>5,344.14</td><td></td><td></td><td>3,621.00</td><td>33,086.76</td></t<>	Switchgear			24,121.62	5,344.14			3,621.00	33,086.76
Sinches 12 37,003 0.782.21 3.07 4.485.00 5.24.05 Sinches 12 Notager 24,012 5.04.14 3.00 4.566.00 5.04.05 Sinches 12 27,022 6.04.03 2.00 2.04.00 3.02.00 3.02.00 3.02.00 3.02.00 3.02.00 3.02.00 3.02.00 3.02.00 3.02.00 3.02.00 3.02.00 2.04.00 3.02.00 </td <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>				-					
Sourchape Develope Sourchape12Johnspar30, 0, 78, 2130, 0, 78, 2130, 0, 78, 20, 0030, 20, 00Sourchape Sourchape194Asst cost covered under CC7, 0, 79, 62, 00100, 0, 20, 20, 60, 0020, 00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Sundage Na Na hage No. No. No. Sundage 64 Arst cost covered under CC 27.06.0 102.0 3.00.0									
Sundaya H9 Astro cont covered under CC 2/16/2 5,344 hy 3,00 3,2100 3,2080 Sundaya 12 Astro cont covered under CC 2/16/20 4,000 31 2,00 2,406 40 52,000 Sundaya 12 Astro cont covered under CC 2,706 0 6,000 31 2,00 2,406 40 52,000 Sundaya 12 Permoved FM, purchasing 52,000 0 1,122 30 1,00 1,207 00 7,806 0 Sundaya 147 Permoved FM, purchasing 1,228 00 1,122 30 1,00 1,207 00 7,806 0 Sundaya 167 Nep parchase (200 N) -			Nil charges		0,100.21			4,000.00	
Shirthjer FA Asset cont covered under CC . US23 1.00 L207.00 2.38 Smithjer F2 Asset cost covered under CC 2.7066.20 5.7065.20 1.00 4.44.30 1.55 Smithjer F2 3.7076.20 5.7065.20 1.00 4.44.30 1.55 Smithjer F2 5.7015.00 1.752.30 1.00 1.207.00 3.987.20 Smithjer F4 Pernoved priot to puchase 5.7015.00 1.522.30 1.00 1.207.00 3.987.20 Smithjer F2 Not puchase (SM) 5.7015.00<				24,121.62	5,344.14			3,621.00	33,086.76
Sheenbay T2 Asset cost sovvered under CIC . 0.878-21 2.70 4.465.50 10.207.00 Sheenbay 20 mmmmer 24, parchasking 5.201.80 11.52.20 10.0 12.27.00 7.500.00 Sheenbay 20 Ferrover (giv) to parchase 5.000.00 10.00 12.07.00 7.500.00 Sheenbay 42 Not parchased (SNV) 5.000.00 10.000.00 <th< td=""><td>Switchgear</td><td>154</td><td>Asset cost covered under CIC</td><td></td><td></td><td></td><td>1.00</td><td></td><td>2,359.39</td></th<>	Switchgear	154	Asset cost covered under CIC				1.00		2,359.39
Sunchgent 112 menumber 24, purchasing 5,20,10 0,786,21 2,70 4,465,50 5,20,30 Sunchgent 407 menumber 34, purchasing 5,20,100 1,52,30 100 1,207,00 3,3867 Sunchgent 402 Mot purchased (GNN) Sunchgent	Switchgear			27,086.20	6,000.94			2,414.00	35,501.14
Sintenge 207 encombre 34, parchasing 50,010 152,38 100 1207,00 75,000 Sintenge 467 Remove dipiot to parchase 128,28 80,08 100 1207,00 73,88,7 Sintenge 467 Remove dipiot to parchase 547 Remove dipiot to parchase 547 Remove dipiot to parchase Sintenge 92 Not parchased (20K N) 547 Remove dipiot to parchase 547 Remove dipiot to parchase Sintenge 92 Not parchased (20K N) 547 Remove dipiot to parchase 547 Remove dipiot to parchase Sintenge 92 Not parchased (20K N) 547 930 1066,30 24,013 Sintenge 92 Not parchased (20K N) 547 930 1066,30 930 <t< td=""><td>Switchgear</td><td></td><td>Asset cost covered under CIC</td><td></td><td></td><td></td><td></td><td></td><td>13,262.11</td></t<>	Switchgear		Asset cost covered under CIC						13,262.11
Subolgent Sub	Switchgear		and the old and the second						52,965.24
Shedhogen 447 Pernoved prior to purchase Shedhogen 52 Not purchased (6kV) Not purchased (6kV) Shedhogen 52 Not purchased (220 V) Not purchased (220 V) Shedhogen 612 Not purchased (220 V) Not purchased (220 V) Shedhogen 612 Not purchased (220 V) Not purchased (220 V) Shedhogen 612 Not purchased (220 V) Not purchased (220 V) Shedhogen 617 Not purchased (220 V) Not purchased (220 V) Shedhogen 617 Not purchased (220 V) Not purchased (220 V) Shedhogen 627 144555 0.60 1086.30 580.50 Shedhogen 627 144555 0.90 1086.30 580.50 Shedhogen 282 677.33 144555 0.90 1086.30 580.50 Shedhogen 282 677.33 144555 0.90 1086.30 580.50 Shedhogen 282 677.33 144555 0.90 1085.30 580.50 Shedhogen									
Sinch gene482No purchased (GikV)Sinch gene572No purchased (GikV)Sinch gene572No purchased (GikV)Sinch gene682No purchased (GikV)Sinch gene2826073.351.345.550.901.086.308.056.55Sinch gene2826073.351.345.550.901.086.308.056.55Sinch gene2826073.351.345.550.901.086.308.056.55Sinch gene2826.073.351.345.550.901.086.308.056.55Sinch gene2826.073.351.345.550.901.086.308.056.55Sinch gene2826.073.351.345.550.901.086.308.056.55Sinch gene2826.073.351.345.550.901.086.308.056.55Sinch gene282 <t< td=""><td></td><td></td><td></td><td>1,628.88</td><td>360.88</td><td></td><td>1.00</td><td>1,207.00</td><td>3,196.76</td></t<>				1,628.88	360.88		1.00	1,207.00	3,196.76
Sinthyse52Nationalsed (68.v)Sinthyse572Nationalsed (68.v)Sinthyse572Nationalsed (20.v)Sinthyse802Nationalsed (20.v)Sinthyse802Astational conventional (20.v)Sinthyse802807.33134559.09108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505									
Sinthger 647 Period epidor 5 purihase Sinthger 002 Mot purchase(120N) Sinthger 002 Mot purchase(120N) Sinthger 012 Mot purchase(120N) Sinthger 012 Sinthger Sinthger 012 Mot purchase(120N) Sinthger 016 016.30 24316 Sinthger 012 Mot purchase(120N) Sinthger 016 016.30 24316 Sinthger 027 Asstocation (100N) Sinthger 030 1085.30 24316 Sinthger 027 Asstocat covered under CIC, maint et 1345.55 0.30 1085.30 24316 Sinthger 2522 Asstocat covered under CIC, maint et 1345.55 0.30 1085.30 8055 Sinthger 2522 Asstocat covered under CIC, maint et 6073.38 1345.55 0.30 1085.30 8055 Sinthger 2522 673.38 1345.55 0.30 1085.30 8055 Sinthger 252 673.38 1345.55 0.30	Switchgear								
Sinch geneD72Not purchased (Sak Y)Sinch gene02Not purchased (220k Y)Sinch gene02Not purchased (220k Y)Sinch gene03Not purchased (220k Y) <td< td=""><td>Switchgear</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Switchgear								
Sinth part B12 Not purchased (2004) Sinth part B42 Not purchased (2004) Sinth part B67 Not purchased (2004) Sinth part B67 Not purchased (2004) Sinth part B62 Asst cost cost covered under CIC, maint et - Sinth part B62 B62 B673.35 1345.55 D.00 UD68.30 8,565. Sinth part B62 B673.36 1345.55 D.00 1068.30 8,565. Sinth part B62 B673.36 1345.55 D.00 1068.30 8,565. Sinth part B62 B673.36 1345.55 D.00 1068.30 8,565. Sinth part B672.36 1445.55 D.00 1068.30 8,565. <td>Switchgear</td> <td>572</td> <td>Not purchased (66kV)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Switchgear	572	Not purchased (66kV)						
Sinch gene B42 Not purchased (2004) Sinch gene B7 Not purchased (2004) Sinch gene 282 Asset cost covered under CIC, maint et d. 6/73.36 1345.55 0.90 1068.30 8,565. Sinch gene 282 6/73.38 1345.55 0.90 1068.30 8,565. Sinch gene 282 6/73.38 <td< td=""><td>Switchgear</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Switchgear								
Selection 67 Not purchased (220 kr) Selection 673 Not purchased (220 kr) Selection 682 Not purchased (220 kr) Selection 682 Not purchased (220 kr) Selection 682 Not purchased (220 kr) Selection 697 Not purchased (220 kr) Selection 697 134555 0.90 1066.50 65505 Selection 6077.36 134555 0.90 1066.50 65505 Selection 6073.36 134555 0.90 1066.50 65505 Selection 6077.36 134555	Switchgear								
Sinth Gyan 978 Not purchased (220K) Sinth Gyan 892 Not purchased (220K) Sinth Gyan 897 Not purchased (220K) Sinth Gyan 257 Arset Cost covered under CLC, maint et 1.345.55 0.30 1086.30 2.401 Sinth Gyan 252 6.077.36 1.345.55 0.90 1086.30 8.556. Sinth Gyan 252 6.077.36 1.345.55 0.90 1086.30 8.566. Sinth Gyan									
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Switchiges697Not purchased (220K)Switchiges972Not purchased (220K)Switchiges2572Asset cost covered under CDC, maint et-Switchiges25826.07.331.345.550.901.086.50Switchiges25826.07.331.345.550.901.086.50Switchiges25826.07.331.345.550.901.086.50Switchiges25826.07.331.345.550.901.086.50Switchiges25626.07.331.345.550.901.086.50Switchiges25226.07.331.345.550.901.086.50Switchiges25226.07.331.345.550.901.086.50Switchiges2526.07.331.345.550.901.086.50Switchiges2526.07.331.345.550.901.086.50Switchiges2526.07.331.345.550.901.086.50Switchiges2526.07.331.345.550.901.086.50Switchiges2526.07.331.345.550.901.086.50Switchiges2726.07.331.345.550.901.086.50Switchiges2726.07.331.345.550.901.086.50Switchiges2726.07.331.345.550.901.086.50Switchiges2726.07.331.345.550.901.086.50Switchiges2726.07.331.345.550.901.086.50Switchiges2726.07									
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Switchgear 2612 6,07,38 1,34555 0.00 1,068,30 8,505. Switchgear 2622 6,07,38 1,34555 0.00 1,068,30 8,505. Switchgear 2622 6,07,38 1,34555 0.00 1,068,30 8,505. Switchgear 2642 6,07,38 1,345,55 0.00 1,068,30 8,505. Switchgear 2652 6,07,38 1,345,55 0.00 1,068,30 8,505. Switchgear 2652 6,07,338 1,345,55 0.90 1,068,30 8,505. Switchgear 2682 6,07,338 1,345,55 0.90 1,068,30 8,505. Switchgear 2682 6,07,338 1,345,55 0.90 1,068,30 8,505. Switchgear 2712 6,07,338 1,345,55 0.90 1,068,30 8,505. Switchgear 2712 6,07,338 1,345,55 0.90 1,088,30 8,505. Switchgear 2712 <th6,07,38< th=""> <th1,345,55< th=""> 0.</th1,345,55<></th6,07,38<>	Switchgear								8,505.21
Switchgear 212 6,77,36 1,445,56 0,90 1,066,30 6,505. Switchgear 2822 6,423,08 1,445,55 0,90 1,066,30 6,505. Switchgear 2842 6,423,08 1,445,55 0,90 1,066,30 6,505. Switchgear 2862 6,073,36 1,345,55 0,90 1,066,30 6,505. Switchgear 2862 6,073,36 1,345,55 0,90 1,066,30 8,505. Switchgear 2862 6,073,36 1,345,55 0,90 1,066,30 8,505. Switchgear 2882 6,073,36 1,345,55 0,90 1,066,30 8,505. Switchgear 2722 6,073,36 1,345,55 0,90 1,066,30 8,505. Switchgear 2722 6,073,36 1,345,55 0,90 1,066,30 8,505. Switchgear 2742 6,073,36 1,345,55 0,90 1,066,30 8,505. Switchgear 2742 6,073,36 1,345,55									8,505.21
Switchger 2822 6,77.36 1,42.05 0.90 1,068.30 8,505. Switchger 2832 6,42.308 1,42.053 0.00 1,008.30 8,505. Switchger 2852 6,77.38 1,345.55 0.90 1,008.30 8,505. Switchger 2852 6,77.38 1,345.55 0.90 1,008.30 8,505. Switchger 2852 6,77.38 1,345.55 0.90 1,008.30 8,505. Switchger 2862 6,77.38 1,345.55 0.90 1,008.30 8,505. Switchger 2882 6,77.38 1,345.55 0.90 1,008.30 8,505. Switchger 272 6,77.38 1,345.55 0.90 1,008.30 8,505. Switchger 272 6,77.38 1,345.55 0.90 1,008.30 8,505. Switchger 272 6,77.38 1,345.55 0.90 1,088.30 8,505. Switchger 272 6,77.38 1,345.55 0.90									
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Switchgear 2732 6,42.08 1,42.0.3 100 1207.00 9,053. Switchgear 2742 6,073.36 1,345.55 0.90 1,086.30 8,505. Switchgear 2752 6,073.36 1,345.55 0.90 1,086.30 8,505. Switchgear 2772 6,073.36 1,345.55 0.90 1,086.30 8,505. Switchgear 2772 6,073.36 1,345.55 0.90 1,086.30 8,505. Switchgear 2782 6,073.36 1,345.55 0.90 1,086.30 8,505. Switchgear 2802 6,073.36 1,345.55 0.90 1,086.30 8,505. Switchgear 2812 Asset oct oovered under CIC - 1,345.55 0.90 1,086.30 2,431.8 Switchgear 28747 Not purchased (220 kV) - 1,345.55 0.90 1,086.30 2,313.2 Switchgear RM262 Metering not purchased, but charge still 2,563.06 568.17 - 3,138.2	Switchgear							1,086.30	8,505.21
Switchgear 2742 6,07.36 1.345.55 0.90 1.086.30 8.505.3 Switchgear 2752 6,07.36 1.345.55 0.90 1.086.30 8.505.3 Switchgear 2772 6,07.36 1.345.55 0.90 1.086.30 8.505.3 Switchgear 2782 6,07.36 1.345.55 0.90 1.086.30 8.505.3 Switchgear 2792 6,07.36 1.345.55 0.90 1.086.30 8.505.3 Switchgear 2802 6,07.36 1.345.55 0.90 1.086.30 8.505.3 Switchgear 2812 Asset cost covered under CIC - 1.345.55 0.90 1.086.30 8.505.3 Switchgear 807.517 Removed priot to purchased 1.345.55 0.90 1.086.30 8.505.3 Switchgear 807.517 Removed priot to purchased 1.345.55 0.90 1.086.30 8.505.3 Switchgear 807.517 Not purchased 2.569.06 569.17 - 3.138.2 Switc	Switchgear								8,505.21
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Switchgear 2772 6,073.36 1,345.55 0.90 1,086.30 8,505.3 Switchgear 2782 6,073.36 1,345.55 0.90 1,086.30 8,505.3 Switchgear 2782 6,073.36 1,345.55 0.90 1,086.30 8,505.3 Switchgear 2802 6,073.36 1,345.55 0.90 1,086.30 8,505.3 Switchgear 2812 Asset cost oovered under CIC - 1,345.55 0.90 1,086.30 2,4318 Switchgear 807-317 Removed prior to purchase - 1,345.55 0.90 1,086.30 2,4318 Switchgear 807-317 Not purchased,but charge still 2,569.06 569.17 - 3,138.2 Switchgear RIM2532 Metering not purchased,but charge still 2,569.06 569.17 - 3,138.2 Switchgear RIM452 Not purchased 2,569.06 569.17 - 3,138.2 Switchgear RIM572 Not purchased 2,569.06 569.17 - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
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Switchgear 2802 6,073.36 1,345.55 0.90 1,086.30 8,505.3 Switchgear 2812 Asset cost covered under CIC - 1,345.55 0.90 1,086.30 2,4318 Switchgear 807-817 Removed prior to purchase - 1,345.55 0.90 1,086.30 2,4318 Switchgear 807-817 Not purchased (220kV) - 3,138.2 3,138.2 Switchgear RM2682 Metering not purchased, but charge still 2,569.06 569.17 - 3,138.2 Switchgear RM2732 Metering not purchased, but charge still 2,569.06 569.17 - 3,138.2 Switchgear RM2732 Metering not purchased, but charge still 2,569.06 569.17 - 3,138.2 Switchgear RM572 Not purchased - 3,138.2 - 3,138.2 Switchgear RM572 Not purchased - 4,160.4 Switchgear VT1 3,405.85 754.57 - 4,160.4 Switchgear	Switchgear								8,505.21
Switchgear 2812 Asset cost oovered under CIC 1,345.55 0.90 1,086.30 2,4318 Switchgear 487-517 Bernoved priot to purchased - 1,345.55 0.90 1,086.30 2,4318 Switchgear 807-817 Not purchased (220kV) - 3,138.2 Switchgear BM2632 Metering not purchased, but charge still 2,569.06 569.17 - 3,138.2 Switchgear BM2622 Metering not purchased, but charge still 2,569.06 569.17 - 3,138.2 Switchgear BM2622 Metering not purchased 2,569.06 569.17 - 3,138.2 Switchgear BM2732 Metering not purchased 2,569.06 569.17 - 3,138.2 Switchgear BM572 Not purchased - 3,405.85 754.57 - 4,160.4 Switchgear VT1 3,405.85 754.57 - 4,160.4 Switchgear VT3 Not purchased - 4,460.4 Switchgear VT3 <	Switchgear								8,505.21
Switchgear 807-817 Not purchased (220kV) Switchgear 827-847 Not purchased (220kV) Switchgear 827-847 Not purchased (220kV) Switchgear RM2632 Metering not purchased, but charge still 2,569.06 569.17 3,138.2 Switchgear RM2632 Metering not purchased, but charge still 2,569.06 569.17 3,138.2 Switchgear RM2732 Metering not purchased, but charge still 2,569.06 569.17 3,138.2 Switchgear RM2732 Metering not purchased, but charge still 2,569.06 569.17 3,138.2 Switchgear RM572 Not purchased 58 58.17 3,138.2 Switchgear RM572 Not purchased 2,569.06 569.17 3,138.2 Switchgear RM572 Not purchased 2,569.06 569.17 3,138.2 Switchgear RM572 Not purchased 3,405.85 754.57 4,160.4 Switchgear V17 3,405.85 754.57 4,160.4 Switchgear V137 </td <td>Switchgear</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>0.90</td> <td></td> <td>2,431.85</td>	Switchgear			-			0.90		2,431.85
Switchgear 827-847 Not purchased (220kV)	Switchgear								
Switchgear RM2632 Metering not purchased, but charge still 2,569,06 569,17 - 3,138,2 Switchgear RM2662 Metering not purchased, but charge still 2,569,06 569,17 - 3,138,2 Switchgear RM2732 Metering not purchased, but charge still 2,569,06 569,17 - 3,138,2 Switchgear RM492 Not purchased, but charge still 2,569,06 569,17 - 3,138,2 Switchgear RM492 Not purchased, but charge still 2,569,06 569,17 - 3,138,2 Switchgear RM572 Not purchased - 3,138,2 - 3,138,2 Switchgear RM572 Not purchased - 3,105,85 754,57 - 4,160,4 Switchgear V17 3,405,85 754,57 - 4,160,4 Switchgear V197 Nil charges - 4,160,4 Line BRY_ISLA Not purchased - 4,160,4 Other BC5 Asset cost not in 2014 Transpower </td <td>Switchgear</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Switchgear								
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Switchgear RM2732 Metering not purchased, but charge still 2,569.06 569.17 - 3,138.2 Switchgear RM492 Not purchased - 3,138.2 Switchgear RM532 Not purchased - 4,160.4 Switchgear RM572 Not purchased - 4,160.4 Switchgear VT1 3,405.85 754.57 - 4,160.4 Switchgear VT2 3,405.85 754.57 - 4,160.4 Switchgear VT3 Not purchased - 4,160.4 Switchgear VT97 Nil charges - 4,160.4 Line BRY_ISLA Not purchased - 4,160.4 Other BC5 Asset cost not in 2014 Transpower - - - 4,160.4 Other BZIP42 Not purchased - - - 8,402.3 Other BZIP43 Nil charges - - 8,402.3 - 8,402.3 Other R3								-	
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Switchgear RM572 Not purchased - 4,160,4 Switchgear VT1 3,405,85 754,57 - 4,160,4 Switchgear VT2 3,405,85 754,57 - 4,160,4 Switchgear VT3 Nil charges - 4,160,4 Switchgear VT97 Nil charges - 4,160,4 Line BRY_ISLA Not purchased - 4,160,4 Other ATC Not purchased - 4,160,4 Other BC5 Asset cost not in 2014 Transpower - </td <td>Switchgear</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Switchgear								
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Line BRY_ISLA Not purchased Other ATC Not purchased Other BC5 Asset cost not in 2014 Transpower Other BZIP42 Not purchased Other BZPP43 Nil charges 6,878,44 1,523,92 - 8,402,3 Other R3 6,878,44 1,523,92 - 8,402,3 Other R4 6,878,44 1,523,92 - 8,402,3 Other R4 6,878,44 1,523,92 - 8,402,3	Switchgear		• ··· ·	3,405.85	754.57				4,160.42
Other ATC Not purchased Other BC5 Asset cost not in 2014 Transpower Other BZIP42 Not purchased Other BZIP42 Not purchased Other BZPP43 Nil charges Other R2 6,878.44 1,523.92 Other R3 6,878.44 1,523.92 - 8,402.3 Other R4 6,878.44 1,523.92 - 8,402.3 Other R4 6,878.44 1,523.92 - 8,402.3									
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Other P3 6,878.44 1,523.92 - 8,402.3 Other P4 6,878.44 1,523.92 - 8,402.3	Other			6.878.44	1,523.92				8,402.36
Other R4 6,878.44 1,523.92 - 8,402.3	Other								8,402.36
	Other	B4						-	8,402.36

		Springston avoided conne	ction charge	claim							
			Charges recalculated using standard recovery rates 2017/18								
Asset	Asset Id	201110	Asset return % 8.26%	Maintenanc e recovery Rate 1.83%	ce recovery	Number of Switches	Operating recovery on 66kV Line \$1,207 /switch	Total			
Substation	-	not avoided, charge at ISL									
Substation	Springst		98,563.60	21,836.73				120,400.3			
T	on T1		90 220 07	21,782,78				120,102.8			
Transformer	T2		98,320.07	•				•			
Transformer			98,320.07	21,782.78				120,102.8			
Switchgear	92	not avoided, charge at ISL									
Switchgear	112	not avoided, charge at ISL		0 700 04		0.70	4 405 00	10,000			
Switchgear	312	Asset cost covered under CIC		8,796.21		3.70	4,465.90	13,262.			
Switchgear	322	Asset cost covered under CIC		6,000.94		2.00	2,414.00	8,414.9			
Switchgear	332	Asset cost covered under CIC		8,796.21		4.00	4,828.00	13,624.3			
Switchgear	348	Asset cost covered under CIC		5,344.14		3.00	3,621.00	8,965.1			
Switchgear	362	Asset cost covered under CIC		6,000.94		2.00	2,414.00	8,414.9			
Switchgear	372	Asset cost covered under CIC		8,796.21		4.00	4,828.00	13,624.1			
Switchgear	1122		11,444.77	2,535.58		3.80	4,586.60	18,566.9			
Switchgear	1132		10,429.02	2,310.55		2.00	2,414.00	15,153.5			
Switchgear	1142		11,444.77	2,535.58		3.80	4,586.60	18,566.9			
Switchgear	1162		11,444.77	2,535.58		3.80	4,586.60	18,566.9			
Switchgear	1172		11,444.77	2,535.58		3.80	4,586.60	18,566.9			
Switchgear	1182		11,444.77	2,535.58		3.80	4,586.60	18,566.9			
Switchgear	1192		11,444.77	2,535.58		3.80	4,586.60	18,566.9			
Switchgear	1202		11,444.77	2,535.58		3.80	4,586.60	18,566.9			
Switchgear	1222		11,444.77	2,535.58		3.80	4,586.60	18,566.9			
Switchgear	1227		1,573.56	348.62		1.00	1,207.00	3,129.1			
Switchgear	1232		10,429.02	2,310.55		2.00	2,414.00	15,153.5			
Switchgear	1147-		2,694.75	597.02		2.00	2,414.00	5,705.7			
	1167										
Switchgear	1187- 1207		2,694.75	597.02		2.00	2,414.00	5,705.7			
Switchgear	RM1132		2,521.55	558.65		0.00	-	3,080.2			
Switchgear	RM1232		2,521.55	558.65		0.00	-	3,080.2			
Switchgear	RM312	Asset cost covered under CIC	-	821.92		0.00	-	821.3			
Switchgear	VT3		3,405.85	754.57		0.00	-	4,160.4			
Switchgear	VT317	Asset cost covered under CIC	-	754.57		0.00	-	754.9			
Switchgear	VT367	Asset cost covered under CIC	-	754.57		0.00	-	754.9			
Switchgear	VT4	······································	3,405.85	754.57			-	4,160.4			
Line	ISL_SP		161,791.06		64,740.00			226,531.0			
Other		Asset cost covered under CIC	-	2,528.00				2,528.0			
								866,166.4			

	Springston GXP spur asset acquisition							
NIA charg	je avoided a	and claimed as recoverable cost						
History of	akzenac							
TASCOLY OF	Monthly	Annual						
Apr-11								
May-11								
Jun-11	•							
Jul-11	-							
Aug-11	\$17,588.91							
Sep-11	\$17,588.91							
Oct-11								
Nov-11	\$17,588.91							
Dec-11	\$17,588.91							
Jan-12	\$17,588.91							
Feb-12	\$17,588.91							
Mar-12	\$17,588.91	\$211,066.92						
Apr-12	\$15,997.66							
May-12	\$15,997.66							
Jun-12	\$15,997.66							
Jul-12	\$15,997.66							
Aug-12	\$15,997.66							
Sep-12	\$15,997.66							
Oct-12	\$15,997.66							
Nov-12	\$15,997.66							
Dec-12	\$15,997.66							
Jan-13	\$15,997.66							
Feb-13	\$15,997.66							
	\$15,997.66	\$191,971.92						
	\$14,636.86							
· ·	\$14,636.86							
	\$14,636.86							
	\$14,636.86							
-	\$14,636.86							
	\$14,636.86							
	\$14,636.86							
	\$14,636.86							
	\$14,636.86							
	\$14,636.86							
	\$14,636.86							
	\$14,636.86	\$175,642.32						
Apr-14	nil							

Year	Monthly charge		Amount outstanding at start of period	Remaining term	Derived interest rate	Advised risk free rate	Diff	Reverse engineered rate	Reverse Engineered payment	Annual
FY2012	\$17,588.91	actual	2,726,587	32	7.1%	7.78%	0.68%			
FY2013	\$15,997.66	actual	2,702,328	31	6.2%	6.84%	0.68%			
FY2014	\$14,636.86	actual	2,671,364	30	5.3%	5.99%	0.68%			
FY2015	\$16,514.22	avoided"	2,633,218	29	6.5%	7.18%	0.68%	6.50%	\$16,514.22	\$198,170.64
FY2016		avoided	2,600,371	28		6.53%		5.85%	\$15,505.06	\$186,060.73
FY2017		avoided	2,561,494	27		5.92%		5.24%	\$14,602.73	\$175,232.80
FY2018 FY2019		avoided	2,516,315	26		5.26%		4.58%	\$13,677.08	\$164,125.02

* (amount known as advised in regular annual update)

APPENDIX D - TIMING OF PAYMENT OF PASS-THROUGH AND RECOVERABLE COSTS

Clause 10.3 of the CPP determination requires that we disclose each pass through and recoverable cost amount paid, when it was paid, and the period to which it relates. This is set out in the following table.

Period covered	Charge	Cost type	Subtotal group	Amount paid if different (\$ excl GST)	Amount claimed (\$ excl GST)	Date paid
FY2017	Ministry of Business Innovation & Employment Levy - Reversal of prior period accrual	Pass through cost	Commerce Act levies		(70,656.25)	NA
FY2017	Ministry of Business Innovation & Employment Levy - Paymenyt of prior period charge	Pass through cost	Commerce Act levies		70,522.46	5/05/2017
Q4 to 30 June 2017	Ministry of Business Innovation & Employment Levy	Pass through cost	Commerce Act levies		70,946.24	21/07/2017
Q1 to 30 Sept 2017	Ministry of Business Innovation & Employment Levy	Pass through cost	Commerce Act levies		73,972.37	6/10/2017
Q2 to 31 Dec 2017	Ministry of Business Innovation & Employment Levy	Pass through cost	Commerce Act levies		73,906.23	15/12/2017
Q3 to 31 Mar 2018	Ministry of Business Innovation & Employment Levy Q3 accrual	Pass through cost	Commerce Act levies		73,906.23	NA
2016/17	Ministry of Business Innovation & Employment Levy wash up	Pass through cost	Commerce Act levies		83,403.62	22/12/2017
FY2018	Utilities Disputes Charge	Pass through cost	Utilities Disputes Charge		103,641.09	28/04/2017
April 2017	Electricity Authority Levy	Pass through cost	Electricity Authority Levy		47,139.46	22/05/2017
May 2017	Electricity Authority Levy	Pass through cost	Electricity Authority Levy		56,141.57	30/06/2017
June 2017	Electricity Authority Levy	Pass through cost	Electricity Authority Levy		58,136.36	21/07/2017
July 2017	Electricity Authority Levy	Pass through cost	Electricity Authority Levy		57,742.08	21/08/2017
August 2017	Electricity Authority Levy	Pass through cost	Electricity Authority Levy		54,228.94	20/09/2017
September 2017	Electricity Authority Levy	Pass through cost	Electricity Authority Levy		49,439.00	20/10/2017
October 2017	Electricity Authority Levy	Pass through cost	Electricity Authority Levy		46,558.25	20/11/2017
November 2017	Electricity Authority Levy	Pass through cost	Electricity Authority Levy		47,339.48	22/12/2017
December 2017	Electricity Authority Levy	Pass through cost	Electricity Authority Levy		47,299.46	22/01/2018
January 2018	Electricity Authority Levy	Pass through cost	Electricity Authority Levy		44,723.37	23/02/2018
February 2018	Electricity Authority Levy	Pass through cost	Electricity Authority Levy		41,357.33	23/03/2018
March 2018	Electricity Authority Levy March 2018 Accrual	Pass through cost	Electricity Authority Levy		43,481.66	NA
FY2018	Electricity Authority	Pass through	Electricity Authority		(28,815.23)	22/02/2018

Period covered	Charge	Cost type	Subtotal group	Amount paid if different (\$ excl GST)	Amount claimed (\$ excl GST)	Date paid
FY2018	Accrue CCC rates on leased properties	Pass through Cost	Local authority rates		(6,927.62)	NA
FY2018	Christchurch City Council rates	Pass through Cost	Local authority rates		9,236.83	20/04/2017
FY2018	Christchurch City Council rates 153 Montreal St on settlement	Pass through Cost	Local authority rates		(1,335.37)	28/04/2017
FY2018	Christchurch City Council rates 153 Montreal St paid by Chapman Tripp	Pass through Cost	Local authority rates		1,934.29	28/04/2017
FY2018	Christchurch City Council rates (CCC AREA 1 INST 4)	Pass through Cost	Local authority rates		46,673.67	12/05/2017
FY2018	Christchurch City Council rates (CCC AREA 1 INST 4)	Pass through Cost	Local authority rates		3,761.61	12/05/2017
FY2018	Christchurch City Council rates (CCC AREA 3 INST 4)	Pass through Cost	Local authority rates		61,232.10	26/05/2017
FY2018	Selwyn District Council rates (SDC INST 4)	Pass through Cost	Local authority rates		25,323.96	2/06/2017
FY2018	Christchurch City Council rates (CCC AREA 2 INST 4)	Pass through Cost	Local authority rates		32,452.57	9/06/2017
FY2018	Christchurch City Council rates (CCC AREA 1 INST 1)	Pass through Cost	Local authority rates		49,212.82	15/08/2017
FY2018	Christchurch City Council rates (CCC AREA 1 INST 1)	Pass through Cost	Local authority rates		3,741.86	15/08/2017
FY2018	Christchurch City Council rates (CCC AREA 3 INST 1)	Pass through Cost	Local authority rates		61,591.58	25/08/2017
FY2018	Selwyn District Council rates (SDC INST 1)	Pass through Cost	Local authority rates		27,137.69	1/09/2017
FY2018	Christchurch City Council rates (CCC AREA 2 INST 1)	Pass through Cost	Local authority rates		32,431.18	15/09/2017
FY2018	Christchurch City Council rates (CCC AREA 1 INST 2)	Pass through Cost	Local authority rates		49,171.54	15/11/2017
FY2018	Christchurch City Council rates (CCC AREA 1 INST 2)	Pass through Cost	Local authority rates		4,961.15	15/11/2017
FY2018	Christchurch City Council rates (CCC AREA 3 INST 2)	Pass through Cost	Local authority rates		61,907.45	30/11/2017
FY2018	Selwyn District Council rates (SDC INST 2)	Pass through Cost	Local authority rates		27,807.70	1/12/2017
FY2018	Christchurch City Council rates (CCC AREA 2 INST 2)	Pass through Cost	Local authority rates		32,571.64	15/12/2017
FY2018	Christchurch City Council rates (CCC AREA 1 INST 3)	Pass through Cost	Local authority rates		49,171.54	15/02/2018
FY2018	Christchurch City Council rates (CCC AREA 1 INST 3)	Pass through Cost	Local authority rates		4,322.47	15/02/2018
FY2018	Christchurch City Council rates (CCC AREA 3 INST 3)	Pass through Cost	Local authority rates		61,129.41	28/02/2018

Period covered	Charge	Cost type	Subtotal group	Amount paid if different (\$ excl GST)	Amount claimed (\$ excl GST)	Date paid
FY2018	Selwyn District Council rates (SDC INST 3)	Pass through Cost	Local authority rates		27,816.78	2/03/2018
FY2018	Christchurch City Council rates (CCC AREA 2 INST 3)	Pass through Cost	Local authority rates		32,342.92	9/03/2018
FY2018	Christchurch City Council rates 153 Montreal St paid by Chapman Tripp	Pass through Cost	Local authority rates		(50.71)	22/03/2018
FY2018	Christchurch City Council rates (CCC4)	Pass through Cost	Local authority rates		679,603.70	12/05/2017
FY2018	Selwyn District Council rates (SDC4)	Pass through Cost	Local authority rates		23,567.09	2/06/2017
FY2018	Rates 153 Montreal St to Gloucester 146 Ltd	Pass through Cost	Local authority rates		1,624.50	28/07/2017
FY2018	Christchurch City Council rates (CCC1)	Pass through Cost	Local authority rates		738,911.32	15/08/2017
FY2018	Selwyn District Council rates (SDC1)	Pass through Cost	Local authority rates		24,427.96	1/09/2017
FY2018	Christchurch City Council rates (CCC2)	Pass through Cost	Local authority rates		738,911.33	15/11/2017
FY2018	Selwyn District Council rates (SDC2)	Pass through Cost	Local authority rates		24,427.96	1/12/2017
FY2018	Christchurch City Council rates (CCC3)	Pass through Cost	Local authority rates		738,911.32	15/02/2018
FY2018	Selwyn District Council rates (SDC3)	Pass through Cost	Local authority rates		24,428.00	2/03/2018
FY2018	Accrue CCC rates on leased properties	Pass through Cost	Local authority rates		6,999.71	NA
FY2015 to FY2019	CPP application auditing charge	Recoverable Cost	CPP Auditor Fee	80,000.00	20,259.67	21/01/2013
FY2015 to FY2019	CPP application auditing charge	Recoverable Cost	CPP Auditor Fee	74,000.00	18,560.83	8/03/2013
FY2015 to FY2019	CPP application auditing charge	Recoverable Cost	CPP Auditor Fee	50,000.00	12,781.99	7/12/2012
FY2015 to FY2019	CPP application auditing charge	Recoverable Cost	CPP Auditor Fee	40,000.00	10,091.78	8/02/2013
FY2015 to FY2019	Commerce Commission CPP application charge	Recoverable Cost	CPP Commerce Commission application fee	20,000.00	5,032.20	21/02/2013
FY2015 to FY2019	Commerce Commission CPP assessment fee	Recoverable Cost	CPP Commerce Commission assessment fee	1,080,745.00	266,968.71	20/05/2013
FY2015 to FY2019	Commerce Commission CPP assessment fee	Recoverable Cost	CPP Commerce Commission assessment fee	324,662.00	76,689.74	20/12/2013
FY2015 to FY2019	Commerce Commission CPP assessment fee	Recoverable Cost	CPP Commerce Commission assessment fee	148,923.00	36,086.54	20/08/2013
FY2015 to FY2019	Commerce Commission CPP assessment fee refund	Recoverable Cost	CPP Commerce Commission assessment fee	(266,855.91)	(61,960.31)	14/03/2015
FY2015 to FY2019	CPP application engineer charge	Recoverable Cost	CPP Engineer Fee	12,350.00	3,148.58	20/12/2012
FY2015 to FY2019	CPP application engineer charge	Recoverable Cost	CPP Engineer Fee	2,875.00	723.53	20/02/2013
FY2015 to FY2019	CPP application verifier charge	Recoverable Cost	CPP Verifier Fee	73,007.99	18,613.09	20/12/2012
FY2015 to FY2019	CPP application verifier charge	Recoverable Cost	CPP Verifier Fee	67,556.25	17,094.04	25/01/2013

Period covered	Charge	Cost type	Subtotal group	Amount paid if different (\$ excl GST)	Amount claimed (\$ excl GST)	Date paid
FY2015 to FY2019	CPP application verifier charge	Recoverable Cost	CPP Verifier Fee	63,626.57	15,809.50	22/04/2013
April 2017	Arthurs Pass GXP	Recoverable	Transpower		13,125.19	22/05/2017
April 2017	Connection charge Bromley GXP Connection charge	cost Recoverable cost	connection charge Transpower connection charge		164,850.33	22/05/2017
April 2017	Castle Hill GXP Connection charge	Recoverable	Transpower connection charge		10,440.68	22/05/2017
April 2017	Coleridge GXP Connection charge	Recoverable cost	Transpower connection charge		12,052.36	22/05/2017
April 2017	Hororata GXP Connection charge	Recoverable cost	Transpower connection charge		41,700.05	22/05/2017
April 2017	Islington GXP Connection charge	Recoverable cost	Transpower connection charge		154,849.51	22/05/2017
April 2017	Kimberley GXP Connection charge	Recoverable cost	Transpower connection charge		1,813.78	22/05/2017
April 2017	Arthurs Pass GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,756.38	22/05/2017
April 2017	Bromley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,110,612.84	22/05/2017
April 2017	Castle Hill GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,944.53	22/05/2017
April 2017	Coleridge GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,159.32	22/05/2017
April 2017	Hororata GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		248,827.86	22/05/2017
April 2017	Islington GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		3,992,011.36	22/05/2017
April 2017	Kimberley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		76,371.68	22/05/2017
April 2017	Bromley Third Transformer (T7) NIC charge	Recoverable cost	Transpower new investment contract		64,000.00	22/05/2017
April 2017	Hororata Additional 66kV feeder (bay 150) NIC charge	Recoverable cost	Transpower new investment contract		1,949.38	22/05/2017
April 2017	Hororata 33kV bus and 66kV line alterations NIC charge	Recoverable cost	Transpower new investment contract		1,919.00	22/05/2017
April 2017	Islington metering for ADD & MLN Feeders NIC charge	Recoverable cost	Transpower new investment contract		7,464.21	22/05/2017
April 2017	Islington metering for PAP & SPN Feeders	Recoverable cost	Transpower new investment contract		13,218.00	22/05/2017
April 2017	Kimberley 66kV GXP Connection NIC charge	Recoverable cost	Transpower new investment contract		84,471.00	22/05/2017
May 2017	Arthurs Pass GXP Connection charge	Recoverable cost	Transpower connection charge		13,125.19	20/06/2017
May 2017	Bromley GXP Connection charge	Recoverable cost	Transpower connection charge		164,850.33	20/06/2017

Period covered	Charge	Cost type	Subtotal group	Amount paid if different (\$ excl GST)	Amount claimed (\$ excl GST)	Date paid
May 2017	Castle Hill GXP Connection charge	Recoverable cost	Transpower connection charge		10,440.68	20/06/2017
May 2017	Coleridge GXP Connection charge	Recoverable	Transpower connection charge		12,052.36	20/06/2017
May 2017	Hororata GXP	Recoverable	Transpower		41,700.05	20/06/2017
May 2017	Connection charge Islington GXP	Recoverable	connection charge Transpower		154,849.51	20/06/2017
May 2017	Connection charge Kimberley GXP Connection charge	cost Recoverable cost	connection charge Transpower connection charge		1,813.78	20/06/2017
May 2017	Arthurs Pass GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,756.38	20/06/2017
May 2017	Bromley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,110,612.84	20/06/2017
May 2017	Castle Hill GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,944.53	20/06/2017
May 2017	Coleridge GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,159.32	20/06/2017
May 2017	Hororata GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		248,827.86	20/06/2017
May 2017	Islington GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		3,992,011.36	20/06/2017
May 2017	Kimberley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		76,371.68	20/06/2017
May 2017	Bromley Third Transformer (T7) NIC charge	Recoverable cost	Transpower new investment contract		64,000.00	20/06/2017
May 2017	Hororata Additional 66kV feeder (bay 150) NIC charge	Recoverable cost	Transpower new investment contract		1,949.38	20/06/2017
May 2017	Hororata 33kV bus and 66kV line alterations NIC charge	Recoverable cost	Transpower new investment contract		1,919.00	20/06/2017
May 2017	Islington metering for ADD & MLN Feeders NIC charge	Recoverable cost	Transpower new investment contract		7,464.21	20/06/2017
May 2017	Islington metering for PAP & SPN Feeders	Recoverable cost	Transpower new investment contract		13,218.00	20/06/2017
May 2017	Kimberley 66kV GXP Connection NIC charge	Recoverable cost	Transpower new investment contract		84,471.00	20/06/2017
June 2017	Arthurs Pass GXP	Recoverable	Transpower		13,125.19	20/07/2017
June 2017	Connection charge Bromley GXP	cost Recoverable	connection charge Transpower		164,850.33	20/07/2017
June 2017	Connection charge Castle Hill GXP	cost Recoverable	connection charge Transpower		10,440.68	20/07/2017
June 2017	Connection charge Coleridge GXP	cost Recoverable	connection charge Transpower		12,052.36	20/07/2017
June 2017	Connection charge Hororata GXP	cost Recoverable	connection charge Transpower		41,700.05	20/07/2017
	Connection charge	cost	connection charge			
June 2017	Islington GXP Connection charge	Recoverable cost	Transpower connection charge		154,849.51	20/07/2017

Period covered	Charge	Cost type	Subtotal group	Amount paid if different (\$ excl GST)	Amount claimed (\$ excl GST)	Date paid
June 2017	Kimberley GXP Connection charge	Recoverable cost	Transpower connection charge		1,813.78	20/07/2017
June 2017	Arthurs Pass GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,756.38	20/07/2017
June 2017	Bromley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,110,612.84	20/07/2017
June 2017	Castle Hill GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,944.53	20/07/2017
June 2017	Coleridge GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,159.32	20/07/2017
June 2017	Hororata GXP Interconnection charge	Recoverable cost	Transpower interconnection		248,827.86	20/07/2017
June 2017	Islington GXP Interconnection charge	Recoverable cost	charge Transpower interconnection charge		3,992,011.36	20/07/2017
June 2017	Kimberley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		76,371.68	20/07/2017
June 2017	Bromley Third Transformer (T7) NIC charge	Recoverable cost	Transpower new investment contract		64,000.00	20/07/2017
June 2017	Hororata Additional 66kV feeder (bay 150) NIC charge	Recoverable cost	Transpower new investment contract		1,949.38	20/07/2017
June 2017	Hororata 33kV bus and 66kV line alterations NIC charge	Recoverable cost	Transpower new investment contract		1,919.00	20/07/2017
June 2017	Islington metering for ADD & MLN Feeders NIC charge	Recoverable cost	Transpower new investment contract		7,464.21	20/07/2017
June 2017	Islington metering for PAP & SPN Feeders	Recoverable cost	Transpower new investment contract		13,218.00	20/07/2017
June 2017	Kimberley 66kV GXP Connection NIC charge	Recoverable cost	Transpower new investment contract		84,471.00	20/07/2017
July 2017	Arthurs Pass GXP Connection charge	Recoverable cost	Transpower connection charge		13,125.19	21/08/2017
July 2017	Bromley GXP Connection charge	Recoverable	Transpower connection charge		164,850.33	21/08/2017
July 2017	Castle Hill GXP Connection charge	Recoverable cost	Transpower connection charge		10,440.68	21/08/2017
July 2017	Coleridge GXP Connection charge	Recoverable cost	Transpower connection charge		12,052.36	21/08/2017
July 2017	Hororata GXP Connection charge	Recoverable cost	Transpower connection charge		41,700.05	21/08/2017
July 2017	Islington GXP Connection charge	Recoverable cost	Transpower connection charge		154,849.51	21/08/2017
July 2017	Kimberley GXP Connection charge	Recoverable cost	Transpower connection charge		1,813.78	21/08/2017
July 2017	Arthurs Pass GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,756.38	21/08/2017
July 2017	Bromley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,110,612.84	21/08/2017

Period covered	Charge	Cost type	Subtotal group	Amount paid if different (\$ excl GST)	Amount claimed (\$ excl GST)	Date paid
July 2017	Castle Hill GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,944.53	21/08/2017
July 2017	Coleridge GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,159.32	21/08/2017
July 2017	Hororata GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		248,827.86	21/08/2017
July 2017	Islington GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		3,992,011.36	21/08/2017
July 2017	Kimberley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		76,371.68	21/08/2017
July 2017	Bromley Third Transformer (T7) NIC charge	Recoverable cost	Transpower new investment contract		64,000.00	21/08/2017
July 2017	Hororata Additional 66kV feeder (bay 150) NIC charge	Recoverable cost	Transpower new investment contract		1,949.38	21/08/2017
July 2017	Hororata 33kV bus and 66kV line alterations NIC charge	Recoverable cost	Transpower new investment contract		1,919.00	21/08/2017
July 2017	Islington metering for ADD & MLN Feeders NIC charge	Recoverable cost	Transpower new investment contract		7,464.21	21/08/2017
July 2017	Islington metering for PAP & SPN Feeders	Recoverable cost	Transpower new investment contract		13,218.00	21/08/2017
July 2017	Kimberley 66kV GXP Connection NIC charge	Recoverable cost	Transpower new investment contract		84,471.00	21/08/2017
August 2017	Arthurs Pass GXP Connection charge	Recoverable cost	Transpower connection charge		13,125.19	20/09/2017
August 2017	Bromley GXP Connection charge	Recoverable cost	Transpower connection charge		164,850.33	20/09/2017
August 2017	Castle Hill GXP Connection charge	Recoverable cost	Transpower connection charge		10,440.68	20/09/2017
August 2017	Coleridge GXP Connection charge	Recoverable cost	Transpower connection charge		12,052.36	20/09/2017
August 2017	Hororata GXP Connection charge	Recoverable cost	Transpower connection charge		41,700.05	20/09/2017
August 2017	Islington GXP	Recoverable	Transpower connection charge		154,849.51	20/09/2017
August 2017	Connection charge Kimberley GXP Connection charge	cost Recoverable cost	Transpower connection charge		1,813.78	20/09/2017
August 2017	Arthurs Pass GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,756.38	20/09/2017
August 2017	Bromley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,110,612.84	20/09/2017
August 2017	Castle Hill GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,944.53	20/09/2017
August 2017	Coleridge GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,159.32	20/09/2017
August 2017	Hororata GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		248,827.86	20/09/2017

Period covered	Charge	Cost type	Subtotal group	Amount paid if different (\$ excl GST)	Amount claimed (\$ excl GST)	Date paid
August 2017	Islington GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		3,992,011.36	20/09/2017
August 2017	Kimberley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		76,371.68	20/09/2017
August 2017	Bromley Third Transformer (T7) NIC charge	Recoverable cost	Transpower new investment contract		64,000.00	20/09/2017
August 2017	Hororata Additional 66kV feeder (bay 150) NIC charge	Recoverable cost	Transpower new investment contract		1,949.38	20/09/2017
August 2017	Hororata 33kV bus and 66kV line alterations NIC charge	Recoverable cost	Transpower new investment contract		1,919.00	20/09/2017
August 2017	Islington metering for ADD & MLN Feeders NIC charge	Recoverable cost	Transpower new investment contract		7,464.21	20/09/2017
August 2017	Islington metering for PAP & SPN Feeders	Recoverable cost	Transpower new investment contract		13,218.00	20/09/2017
August 2017	Kimberley 66kV GXP Connection NIC charge	Recoverable cost	Transpower new investment contract		84,471.00	20/09/2017
September 2017	Arthurs Pass GXP Connection charge	Recoverable cost	Transpower connection charge		13,125.19	20/10/2017
September 2017	Bromley GXP Connection charge	Recoverable cost	Transpower connection charge		164,850.33	20/10/2017
September 2017	Castle Hill GXP Connection charge	Recoverable cost	Transpower connection charge		10,440.68	20/10/2017
September 2017	Coleridge GXP Connection charge	Recoverable cost	Transpower connection charge		12,052.36	20/10/2017
September 2017	Hororata GXP Connection charge	Recoverable cost	Transpower connection charge		41,700.05	20/10/2017
September 2017	Islington GXP Connection charge	Recoverable cost	Transpower connection charge		154,849.51	20/10/2017
September 2017	Kimberley GXP Connection charge	Recoverable cost	Transpower connection charge		1,813.78	20/10/2017
September 2017	Arthurs Pass GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,756.38	20/10/2017
September 2017	Bromley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,110,612.84	20/10/2017
September 2017	Castle Hill GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,944.53	20/10/2017
September 2017	Coleridge GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,159.32	20/10/2017
September 2017	Hororata GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		248,827.86	20/10/2017
September 2017	Islington GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		3,992,011.36	20/10/2017
September 2017	Kimberley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		76,371.68	20/10/2017

Period covered	Charge	Cost type	Subtotal group	Amount paid if different (\$ excl GST)	Amount claimed (\$ excl GST)	Date paid
September 2017	Bromley Third Transformer (T7) NIC charge	Recoverable cost	Transpower new investment contract		64,000.00	20/10/2017
September 2017	Hororata Additional 66kV feeder (bay 150) NIC charge	Recoverable cost	Transpower new investment contract		1,949.38	20/10/2017
September 2017	Hororata 33kV bus and 66kV line alterations NIC charge	Recoverable cost	Transpower new investment contract		1,919.00	20/10/2017
September 2017	Islington metering for ADD & MLN Feeders NIC charge	Recoverable cost	Transpower new investment contract		7,464.21	20/10/2017
September 2017	Islington metering for PAP & SPN Feeders	Recoverable cost	Transpower new investment contract		13,218.00	20/10/2017
September 2017	Kimberley 66kV GXP Connection NIC charge	Recoverable cost	Transpower new investment contract		84,471.00	20/10/2017
October	Arthurs Pass GXP	Recoverable	Transpower		13,125.19	20/11/2017
2017 October 2017	Connection charge Bromley GXP Connection charge	cost Recoverable cost	connection charge Transpower connection charge		164,850.33	20/11/2017
October 2017	Castle Hill GXP Connection charge	Recoverable	Transpower connection charge		10,440.68	20/11/2017
October 2017	Coleridge GXP Connection charge	Recoverable cost	Transpower connection charge		12,052.36	20/11/2017
October 2017	Hororata GXP Connection charge	Recoverable cost	Transpower connection charge		41,700.05	20/11/2017
October 2017	Islington GXP Connection charge	Recoverable cost	Transpower connection charge		154,849.51	20/11/2017
October 2017	Kimberley GXP Connection charge	Recoverable cost	Transpower connection charge		1,813.78	20/11/2017
October 2017	Bromley GXP Connection charge refund	Recoverable cost	Transpower connection charge		(27,162.07)	20/02/2018
October 2017	Arthurs Pass GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,756.38	20/11/2017
October 2017	Bromley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,110,612.84	20/11/2017
October 2017	Castle Hill GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,944.53	20/11/2017
October 2017	Coleridge GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,159.32	20/11/2017
October 2017	Hororata GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		248,827.86	20/11/2017
October 2017	Islington GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		3,992,011.36	20/11/2017
October 2017	Kimberley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		76,371.68	20/11/2017
October 2017	Bromley Third Transformer (T7) NIC charge	Recoverable cost	Transpower new investment contract		64,000.00	20/11/2017
October 2017	Hororata Additional 66kV feeder (bay 150) NIC charge	Recoverable cost	Transpower new investment contract		1,949.38	20/11/2017

Period covered	Charge	Cost type	Subtotal group	Amount paid if different (\$ excl GST)	Amount claimed (\$ excl GST)	Date paid
October 2017	Hororata 33kV bus and 66kV line alterations NIC charge	Recoverable cost	Transpower new investment contract		1,919.00	20/11/2017
October 2017	Islington metering for ADD & MLN Feeders NIC charge	Recoverable cost	Transpower new investment contract		7,464.21	20/11/2017
October 2017	Islington metering for PAP & SPN Feeders	Recoverable cost	Transpower new investment contract		13,218.00	20/11/2017
October 2017	Kimberley 66kV GXP Connection NIC charge	Recoverable cost	Transpower new investment contract		84,471.00	20/11/2017
November 2017	Arthurs Pass GXP Connection charge	Recoverable cost	Transpower connection charge		13,125.19	20/12/2017
November 2017	Bromley GXP Connection charge	Recoverable cost	Transpower connection charge		164,850.33	20/12/2017
November 2017	Castle Hill GXP Connection charge	Recoverable cost	Transpower connection charge		10,440.68	20/12/2017
November 2017	Coleridge GXP Connection charge	Recoverable cost	Transpower connection charge		12,052.36	20/12/2017
November 2017	Hororata GXP Connection charge	Recoverable cost	Transpower connection charge		41,700.05	20/12/2017
November 2017	Islington GXP Connection charge	Recoverable	Transpower connection charge		154,849.51	20/12/2017
November 2017	Kimberley GXP Connection charge	Recoverable cost	Transpower connection charge		1,813.78	20/12/2017
November 2017	Bromley GXP Connection charge refund	Recoverable cost	Transpower connection charge		(27,162.07)	20/02/2018
November 2017	Arthurs Pass GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,756.38	20/12/2017
November 2017	Bromley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,110,612.84	20/12/2017
November 2017	Castle Hill GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,944.53	20/12/2017
November 2017	Coleridge GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,159.32	20/12/2017
November 2017	Hororata GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		248,827.86	20/12/2017
November 2017	Islington GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		3,992,011.36	20/12/2017
November 2017	Kimberley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		76,371.68	20/12/2017
November 2017	Bromley Third Transformer (T7) NIC charge	Recoverable cost	Transpower new investment contract		64,000.00	20/12/2017
November 2017	Hororata Additional 66kV feeder (bay 150) NIC charge	Recoverable cost	Transpower new investment contract		1,949.38	20/12/2017
November 2017	Hororata 33kV bus and 66kV line alterations NIC charge	Recoverable cost	Transpower new investment contract		1,919.00	20/12/2017
November 2017	Islington metering for ADD & MLN Feeders NIC charge	Recoverable cost	Transpower new investment contract		7,464.21	20/12/2017

Period covered	Charge	Cost type	Subtotal group	Amount paid if different (\$ excl GST)	Amount claimed (\$ excl GST)	Date paid
November 2017	Islington metering for PAP & SPN Feeders	Recoverable cost	Transpower new investment contract		13,218.00	20/12/2017
November 2017	Kimberley 66kV GXP Connection NIC charge	Recoverable cost	Transpower new investment contract		84,471.00	20/12/2017
December 2017	Arthurs Pass GXP Connection charge	Recoverable cost	Transpower connection charge		13,125.19	22/01/2018
December 2017	Bromley GXP Connection charge	Recoverable cost	Transpower connection charge		164,850.33	22/01/2018
December 2017	Castle Hill GXP Connection charge	Recoverable cost	Transpower connection charge		10,440.68	22/01/2018
December 2017	Coleridge GXP Connection charge	Recoverable cost	Transpower connection charge		12,052.36	22/01/2018
December 2017	Hororata GXP Connection charge	Recoverable cost	Transpower connection charge		41,700.05	22/01/2018
December 2017	Islington GXP Connection charge	Recoverable cost	Transpower connection charge		154,849.51	22/01/2018
December 2017	Kimberley GXP Connection charge	Recoverable cost	Transpower connection charge		1,813.78	22/01/2018
December 2017	Bromley GXP Connection charge refund	Recoverable cost	Transpower connection charge		(27,162.07)	20/02/2018
December 2017	Arthurs Pass GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,756.38	22/01/2018
December 2017	Bromley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,110,612.84	22/01/2018
December 2017	Castle Hill GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,944.53	22/01/2018
December 2017	Coleridge GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,159.32	22/01/2018
December 2017	Hororata GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		248,827.86	22/01/2018
December 2017	Islington GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		3,992,011.36	22/01/2018
December 2017	Kimberley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		76,371.68	22/01/2018
December 2017	Bromley Third Transformer (T7) NIC charge	Recoverable cost	Transpower new investment contract		64,000.00	22/01/2018
December 2017	Hororata Additional 66kV feeder (bay 150) NIC charge	Recoverable cost	Transpower new investment contract		1,949.38	22/01/2018
December 2017	Hororata 33kV bus and 66kV line alterations NIC charge	Recoverable cost	Transpower new investment contract		1,919.00	22/01/2018
December 2017	Islington metering for ADD & MLN Feeders NIC charge	Recoverable cost	Transpower new investment contract		7,464.21	22/01/2018
December 2017	Islington metering for PAP & SPN Feeders	Recoverable cost	Transpower new investment contract		13,218.00	22/01/2018
December 2017	Kimberley 66kV GXP Connection NIC charge	Recoverable cost	Transpower new investment contract		84,471.00	22/01/2018

Period covered	Charge	Cost type	Subtotal group	Amount paid if different (\$ excl GST)	Amount claimed (\$ excl GST)	Date paid
January 2018	Arthurs Pass GXP Connection charge	Recoverable cost	Transpower connection charge		13,125.19	20/02/2018
January 2018	Bromley GXP Connection charge	Recoverable	Transpower connection charge		137,688.26	20/02/2018
January	Castle Hill GXP	Recoverable	Transpower		10,440.68	20/02/2018
2018 January	Connection charge Coleridge GXP	cost Recoverable	connection charge Transpower		12,052.36	20/02/2018
2018 January	Connection charge Hororata GXP	cost Recoverable	connection charge Transpower		41,700.05	20/02/2018
2018 January	Connection charge Islington GXP	cost Recoverable	connection charge Transpower		154,849.51	20/02/2018
2018 January	Connection charge Kimberley GXP	cost Recoverable	connection charge Transpower		1,813.78	20/02/2018
2018	Connection charge	cost	connection charge		1,813.78	20/02/2018
January	Arthurs Pass GXP	Recoverable	Transpower		1,756.38	20/02/2018
2018	Interconnection charge	cost	interconnection charge			
January 2018	Bromley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		1,110,612.84	20/02/2018
January 2018	Castle Hill GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,944.53	20/02/2018
January 2018	Coleridge GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,159.32	20/02/2018
January 2018	Hororata GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		248,827.86	20/02/2018
January 2018	Islington GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		3,992,011.36	20/02/2018
January 2018	Kimberley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		76,371.68	20/02/2018
January 2018	Bromley Third Transformer (T7) NIC charge	Recoverable cost	Transpower new investment contract		64,000.00	20/02/2018
January 2018	Hororata Additional 66kV feeder (bay 150) NIC charge	Recoverable cost	Transpower new investment contract		1,949.38	20/02/2018
January 2018	Hororata 33kV bus and 66kV line alterations NIC charge	Recoverable cost	Transpower new investment contract		1,919.00	20/02/2018
January 2018	Islington metering for ADD & MLN Feeders NIC charge	Recoverable cost	Transpower new investment contract		7,464.21	20/02/2018
January 2018	Islington metering for PAP & SPN Feeders	Recoverable cost	Transpower new investment contract		13,218.00	20/02/2018
January 2018	Kimberley 66kV GXP Connection NIC charge	Recoverable cost	Transpower new investment contract		84,471.00	20/02/2018
February 2018	Arthurs Pass GXP Connection charge	Recoverable cost	Transpower connection charge		13,125.19	20/03/2018
February	Bromley GXP	Recoverable	Transpower		137,688.26	20/03/2018
2018 February 2018	Connection charge Castle Hill GXP Connection charge	cost Recoverable cost	connection charge Transpower connection charge		10,440.68	20/03/2018
February 2018	Coleridge GXP Connection charge	Recoverable cost	Transpower connection charge		12,052.36	20/03/2018

Period covered	Charge	Cost type	Subtotal group	Amount paid if different (\$ excl GST)	Amount claimed (\$ excl GST)	Date paid
February	Hororata GXP	Recoverable	Transpower		41,700.05	20/03/2018
2018	Connection charge	cost	connection charge			
February	Islington GXP	Recoverable	Transpower		154,849.51	20/03/2018
2018	Connection charge	cost	connection charge			
February	Kimberley GXP	Recoverable	Transpower		1,813.78	20/03/2018
2018	Connection charge	cost	connection charge			
February	Arthurs Pass GXP	Recoverable	Transpower		1,756.38	20/03/2018
2018	Interconnection charge	cost	interconnection			
			charge			
February	Bromley GXP	Recoverable	Transpower		1,110,612.84	20/03/2018
2018	Interconnection charge	cost	interconnection			
			charge			
February	Castle Hill GXP	Recoverable	Transpower		2,944.53	20/03/2018
2018	Interconnection charge	cost	interconnection			
			charge			
February	Coleridge GXP	Recoverable	Transpower		2,159.32	20/03/2018
2018	Interconnection charge	cost	interconnection			
E.L.		Dece 11	charge		240.000 00	20/02/22:5
February	Hororata GXP	Recoverable	Transpower		248,827.86	20/03/2018
2018	Interconnection charge	cost	interconnection			
Colorian .	Jalia atau CYD	Deseverable	charge		2 002 011 20	20/02/2010
February 2018	Islington GXP Interconnection charge	Recoverable cost	Transpower interconnection		3,992,011.36	20/03/2018
2018	interconnection charge	COST	charge			
February	Kimberley GXP	Recoverable	Transpower		76,371.68	20/03/2018
2018	Interconnection charge	cost	interconnection		70,371.00	20/03/2018
2010	interconnection charge	cost	charge			
			charge			
February	Bromley Third	Recoverable	Transpower new		64,000.00	20/03/2018
2018	Transformer (T7) NIC	cost	investment contract		,	,,
	charge					
February	Hororata Additional	Recoverable	Transpower new		1,949.38	20/03/2018
2018	66kV feeder (bay 150)	cost	investment contract			
	NIC charge					
February	Hororata 33kV bus and	Recoverable	Transpower new		1,919.00	20/03/2018
2018	66kV line alterations	cost	investment contract			
	NIC charge					
February	Islington metering for	Recoverable	Transpower new		7,464.21	20/03/2018
2018	ADD & MLN Feeders	cost	investment contract			
	NIC charge		-		10.010.00	20/02/2010
February	Islington metering for	Recoverable	Transpower new		13,218.00	20/03/2018
2018 February	PAP & SPN Feeders Kimberley 66kV GXP	cost Recoverable	investment contract Transpower new		84,471.00	20/03/2018
2018	Connection NIC charge	cost	investment contract		84,471.00	20/03/2018
2010	connection me charge					
March 2018	Arthurs Pass GXP	Recoverable	Transpower		13,125.19	20/04/2018
	Connection charge	cost	connection charge			<u> </u>
March 2018	Bromley GXP	Recoverable	Transpower		137,688.26	20/04/2018
	Connection charge	cost	connection charge			
March 2018	Castle Hill GXP	Recoverable	Transpower		10,440.68	20/04/2018
	Connection charge	cost	connection charge			
March 2018	Coleridge GXP	Recoverable	Transpower		12,052.36	20/04/2018
	Connection charge	cost	connection charge			
March 2018	Hororata GXP	Recoverable	Transpower		41,700.05	20/04/2018
	Connection charge	cost	connection charge			
March 2018	Islington GXP	Recoverable	Transpower		154,849.51	20/04/2018
	Connection charge	cost	connection charge			20/01/2010
March 2018	Kimberley GXP Connection charge	Recoverable	Transpower		1,813.78	20/04/2018
	I ODDOCTION CHORGO	cost	connection charge	1	1	1

Period covered	Charge	Cost type	Subtotal group	Amount paid if different (\$ excl GST)	Amount claimed (\$ excl GST)	Date paid
March 2018	Arthurs Pass GXP Interconnection charge	Recoverable cost	Transpower interconnection		1,756.38	20/04/2018
March 2018	Bromley GXP Interconnection charge	Recoverable cost	charge Transpower interconnection		1,110,612.84	20/04/2018
March 2018	Castle Hill GXP Interconnection charge	Recoverable cost	charge Transpower interconnection charge		2,944.53	20/04/2018
March 2018	Coleridge GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		2,159.32	20/04/2018
March 2018	Hororata GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		248,827.86	20/04/2018
March 2018	Islington GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		3,992,011.36	20/04/2018
March 2018	Kimberley GXP Interconnection charge	Recoverable cost	Transpower interconnection charge		76,371.68	20/04/2018
March 2018	Bromley Third Transformer (T7) NIC charge	Recoverable cost	Transpower new investment contract		64,000.00	20/04/2018
March 2018	Hororata Additional 66kV feeder (bay 150) NIC charge	Recoverable cost	Transpower new investment contract		1,949.38	20/04/2018
March 2018	Hororata 33kV bus and 66kV line alterations NIC charge	Recoverable cost	Transpower new investment contract		1,919.00	20/04/2018
March 2018	Islington metering for ADD & MLN Feeders NIC charge	Recoverable cost	Transpower new investment contract		7,464.21	20/04/2018
March 2018	Islington metering for PAP & SPN Feeders	Recoverable cost	Transpower new investment contract		13,218.00	20/04/2018
March 2018	Kimberley 66kV GXP Connection NIC charge	Recoverable cost	Transpower new investment contract		84,471.00	20/04/2018
May to Aug 2017	Export credits (transmission part)	Recoverable cost	Avoided transmission charges (Export credits)		113,662.88	20/11/2017
Sept 2016 to Aug 2017	Export credits (transmission part)	Recoverable cost	Avoided transmission charges (Export credits)		19,024.15	20/02/2018
May and July 2017	Generation credits (transmission part)	Recoverable cost	Avoided transmission charges (Generation credits)		16,631.60	20/08/2017
FY2018	Transpower connection charges avoided following partial purchase of Bromley grid exit on 1 April 2014	Recoverable cost	Avoided transmission charges (Partial purchase of Bromley grid exit)	Nil	945,777.51	NA
FY2018	Transpower new investment contract charges avoided following purchase of Springston grid exit on 31 March 2014	Recoverable cost	Avoided transmission charges (Paying of Springston investment contract)	Nil	164,125.02	NA

ORION NEW ZEALAND LIMITED CUSTOMISED PRICE-QUALITY PATH COMPLIANCE STATEMENT FOR THE YEAR ENDED 31 MARCH 2018

Period covered	Charge	Cost type	Subtotal group	Amount paid if different (\$ excl GST)	Amount claimed (\$ excl GST)	Date paid
FY2018	Transpower connection charges avoided following purchase of Addington & Middleton grid exits on 1 April 2015	Recoverable cost	Avoided transmission charges (Purchase of Addington/Middleton grid exit)	Nil	2,851,075.53	NA
FY2018	Transpower connection charges avoided following purchase of Springston grid exit on 31 March 2014	Recoverable cost	Avoided transmission charges (Purchase of Springston grid exit)	Nil	866,166.40	NA
Total					82,075,685.75	

Subtotals

Cost Type Grouping	
Recoverable cost	77,331,840.08
Pass through cost	4,743,845.67
	82,075,685.75
Subtotal group Grouping	
Commerce Act levies	376,000.90
Utilities Disputes Charge	103,641.09
Electricity Authority Levy	564,771.73
Local authority rates	3,699,431.95
Avoided transmission charges (Export credits)	132,687.03
Avoided transmission charges (Generation credits)	16,631.60
Avoided transmission charges (Purchase of Springston grid exit)	866,166.40
Avoided transmission charges (Paying of Springston investment contract)	164,125.02
Avoided transmission charges (Partial purchase of Bromley grid exit)	945,777.51
Avoided transmission charges (Purchase of Addington/Middleton grid exit)	2,851,075.53
CPP Auditor Fee	61,694.27
CPP Commerce Commission application fee	5,032.20
CPP Commerce Commission assessment fee	317,784.69
CPP Engineer Fee	3,872.11
CPP Verifier Fee	51,516.62
Transpower connection charge	4,623,010.38
Transpower interconnection charge	65,216,207.64
Transpower new investment contract	2,076,259.08
	82,075,685.75

APPENDIX E – CALCULATION OF CPP COST INSTALMENTS

Schedule 2, paragraph 3 of the CPP determination provides for the recovery of cost amounts relating to Orion's CPP proposal in equal instalments over the five assessment periods, calculated as:

RC_t = 0.23126 x PV₁₄

where:

t is the year in which the Assessment Period ends;

RCt is the Recoverable Cost amount allowed in the assessment period ending in year t;

 PV_{14} is the present value at 1 April 2014 of each amount recoverable, with each present value calculated using a cost debt of 7.93% per annum.

Cost	Paid to	Cost (excl GST)	Date paid	Days to 1/04/2014	Present value 7.93% p.a.	Instalment @ 0.23123
Breakdown by ind	lividual invoice					
Engineer fee	LineTech Consulting	\$12,350	20/12/2012	467	\$13,617	\$3,149
Auditor fee	Audit NZ	\$50,000	7/12/2012	480	\$55,278	\$12,782
Verifier fee	Geoff Brown & Associates	\$73,008	20/12/2012	467	\$80,496	\$18,613
Auditor fee	Audit NZ	\$80,000	21/01/2013	435	\$87,617	\$20,260
Verifier fee	Geoff Brown & Associates	\$67,556	25/01/2013	431	\$73,927	\$17,094
Engineer fee	LineTech Consulting	\$2,875	20/02/2013	405	\$3,129	\$724
Auditor fee	Audit NZ	\$40,000	8/02/2013	417	\$43,644	\$10,092
Application fee	Com Com	\$20,000	21/02/2013	404	\$21,763	\$5,032
Auditor fee	Audit NZ	\$74,000	8/03/2013	389	\$80,270	\$18,561
Verifier fee	Geoff Brown & Associates	\$63,627	22/04/2013	344	\$68,371	\$15,809
Assessment fee	Com Com	\$1,080,745	20/05/2013	316	\$1,154,559	\$266,969
Assessment fee	Com Com	\$148,923	20/08/2013	224	\$156,063	\$36,087
Assessment fee	Com Com	\$324,662	20/12/2013	102	\$331,660	\$76,690
Assessment fee	Com Com	(\$266,856)	14/03/2014	18	(\$267,901)	(\$61,947)
Total		\$1,770,890			\$1,902,493	\$439,913
Breakdown by cos	st type					
Engineer fee	LineTech Consulting	\$15,225	*		\$16,746	\$3,872
Auditor fee	Audit NZ	\$244,000	*		\$266,809	\$61,694
Verifier fee	Geoff Brown & Associates	\$204,191	*		\$222,794	\$51,517
Application fee	Com Com	\$20,000			\$21,763	\$5,032
Assessment fee	Com Com	\$1,287,474			\$1,374,381	\$317,798
Total		\$1,770,890			\$1,902,493	\$439,913

* these amounts match those given in schedule 2, table 1 of the CPP determination.

DIRECTORS' CERTIFICATE FOR COMPLIANCE STATEMENT

We, Geoffrey Edward Vazey and Bruce Donald Gemmell, being directors of Orion New Zealand Limited certify that, having made all reasonable enquiry, to the best of our knowledge and belief, the attached compliance statement of Orion New Zealand Limited, and related information, prepared for the purposes of the Orion New Zealand Limited Customised Price-Quality Path Determination 2013 has been prepared in accordance with all the relevant requirements.

Geoffrey Edward Vazey

Bruce Donald Gemmell

28 May 2018



Independent Auditor's Report

To the directors of Orion New Zealand Limited and to the Commerce Commission

The Auditor-General is the auditor of Orion New Zealand Limited (the company). The Auditor-General has appointed me, John Mackey, using the staff and resources of Audit New Zealand, to provide an opinion, on his behalf, on whether the company's Compliance Statement for the year ended on 31 March 2018 on pages 3 to 53 complies, in all material respects, with the Orion New Zealand Limited Customised Price-Quality Path Determination 2013 (the Determination).

Directors' responsibilities

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

Auditor's responsibility

Our responsibility is to express an opinion on whether the 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: 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.

These standards require that we comply with ethical requirements and plan and perform our audit to provide reasonable assurance (which is also referred to as 'audit' assurance) about whether the Compliance Statement has been prepared in all material respects in accordance with the Determination.

An audit involves performing procedures to obtain evidence about the amounts and disclosures in the Compliance Statement. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the Compliance Statement, whether due to fraud or error or non-compliance with the Determination. In making those risk assessments, the auditor considers internal control relevant to the company's preparation of the Compliance

Statement in order to design audit 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 relation to the price path and quality standards set out in clauses 7 and 8 of the Determination respectively, our audit included examination, on a test basis, of evidence relevant to the amounts and disclosures contained on pages 3 to 53 of the Compliance Statement.

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

We have obtained sufficient recorded evidence and all the explanations that we required to provide a basis for our opinion.

Use of this report

This independent auditor's report has been prepared for the directors of the company and for the Commerce Commission for the purpose of providing those parties with independent audit assurance about whether the 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 an audit 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 Compliance Statement nor do we guarantee complete accuracy of the Compliance Statement. Also we did not evaluate the security and controls over the electronic publication of the Compliance Statement.

The opinion expressed in this independent auditor's report has been formed on the above basis.

Independence

When carrying out the engagement we followed the independence requirements of the Auditor-General, which incorporate the independence requirements of the External Reporting Board. We also complied with the auditor requirements specified in the Determination.

The Auditor-General, and his 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, this engagement, the audit of the company's disclosure information prepared under the Electricity Distribution 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:

- the Compliance Statement of Orion New Zealand Limited for the year ended on 31 March 2018, has been prepared, in all material respects, in accordance with the Determination;
- the information used in the preparation of the Compliance Statement has been properly extracted from the company's accounting and other records, sourced from its financial and non-financial systems; and
- proper records to enable the complete and accurate compilation of the Compliance Statement have been kept.

Our audit was completed on 28 May 2018 and our opinion is expressed as at that date.

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John Mackey Audit New Zealand On behalf of the Auditor-General Christchurch, New Zealand