

# New Zealand Gazette

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## POWER COMPANIES

### INFORMATION FOR DISCLOSURE

PURSUANT TO THE ELECTRICITY (INFORMATION  
DISCLOSURE) REGULATIONS 1994

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**THE POWER COMPANY  
LIMITED**



*THE POWER*  
COMPANY LIMITED

# THE POWER COMPANY

## LINE BUSINESS

### STATEMENT OF ACCOUNTS FOR THE YEAR ENDED 31 MARCH 1995

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**THE POWER COMPANY  
LINE BUSINESS OPERATING STATEMENT  
FOR YEAR ENDED 31 MARCH 1995**

	<b>1995</b>
<b><u>Income</u></b>	25,769,748
 <b><u>Cost of Sales</u></b>	 10,469,367 -----
 <b><u>Gross Profit</u></b>	 15,300,381
 <b><u>Overheads and Expenses</u></b>	
Gore Borough Subsidy	132,625
Administration	767,129
Personnel	547,363
Occupancy	147,145
Contracting Division Overheads	449,048
Corporate Division Overheads	3,442,651
Network Division Overheads	738,957
Severance/Redundancy Costs	2,596,827 -----
	8,821,745 -----
 <b><u>Earnings Before Interest, Depreciation and Tax</u></b>	 6,478,636
<b>Depreciation Expense</b>	2,517,181 -----
 <b><u>Net Profit Before Tax</u></b>	 3,961,455
<b>Taxation</b>	1,308,110 -----
 <b><u>Net Profit After Tax</u></b>	 \$2,653,345 =====

**THE POWER COMPANY  
LINE BUSINESS BALANCE SHEET  
AS AT 31 MARCH 1995**

	<b>1995</b>
<b><u>Current Assets</u></b>	
Cash at Bank	1,207,100
Receivables	690,547
Cash Investments	15,800,000
Inventories	496,659
	-----
	18,194,306
<b><u>Non Current Assets</u></b>	
Capital Work in Progress	1,384,295
Fixed Assets	32,548,114
	-----
Total Non-Current Assets	33,932,409
	-----
<b>TOTAL ASSETS</b>	<b><u><u>\$52,126,715</u></u></b>
<b><u>Current Liabilities</u></b>	
Accounts Payable and Accruals	2,083,775
Provision for Tax	135,476
Provision for Deferred Tax	49,919
	-----
Total Current Liabilities	2,269,170
<b>TOTAL LIABILITIES</b>	
<b><u>Owners' Equity</u></b>	
Capital Reserve	15,268,105
Retained Earnings	34,589,440
Total Owners' Equity	49,857,545
	-----
<b>TOTAL LIABILITIES AND EQUITY</b>	<b><u><u>\$52,126,715</u></u></b>

**THE POWER COMPANY  
LINES BUSINESS  
STATEMENT OF ACCOUNTING POLICIES  
FOR THE YEAR ENDED 31 MARCH 1995**

**1.0 GENERAL ACCOUNTING POLICIES**

The general policies adopted in the preparation of these financial statements are:

- \* Unless otherwise stated, the measurement base adopted is historical cost.
- \* Reliance is placed on the assumption that the Company is a going concern.
- \* Accrual accounting is used to match revenues with related expenses.

**2.0 SPECIAL PURPOSE FINANCIAL STATEMENTS**

These financial statements have been prepared for the purpose of complying with the requirements of the Electricity (Information Disclosure) Regulations 1994 ("the regulations").

These financial statements relate to the Company's Line Business incorporating the conveyance of electricity, ownership of works for conveyance of electricity and provision of line function and street lighting services in accordance with Section 6 of the Regulations.

Activities as defined in Section 6(3) of the Regulations are undertaken but have not been separated from the Line Business Financial Statements. Section 6(6) allows for inclusion of such activities in the Line Business financial statements if these activities involve less than 5% of the total assets of the line owner. In The Power Company's case Section 6(6) applies.

As this is the first year that the Regulations have been in effect, comparative information is not available and therefore no comparative information has been prepared.

**3.0 PARTICULAR ACCOUNTING POLICIES**

The Power Company's 25% interest in United Electricity Limited has been excluded from these accounts. The interest in PowerNet Limited has been accounted for on a line by line consolidation of revenue and expenses after the elimination of all significant inter-company transactions. Metering Systems Limited is a wholly owned subsidiary of The Power Company which specialises in high tech meter systems. Metering Systems Limited has been accounted for on a consolidation basis using the purchase method.

**4.0 COSTS AND REVENUE**

Costs and Revenue are those directly attributable to the Line Business of The Power Company.

**5.0 FIXED ASSETS**

At 31 March 1995 all assets including Network Assets are recorded at cost less accumulated depreciation.

**6.0 DISTINCTION BETWEEN CAPITAL AND REVENUE EXPENDITURE**

Capital expenditure is defined as all expenditure on the creation of a new asset and any expenditure which results in a significant improvement to the original function of an existing asset.

Revenue expenditure is defined as expenditure which maintains an asset in working condition, and expenditure incurred in maintaining the service performance and operation of the Company.

**7.0 DEPRECIATION**

Fixed assets are depreciated on the basis of cost price less estimated residual value over the period of their estimated useful life.

Rates used are:

Buildings	-	1% SL - 4% DV
Furniture, Fittings & EDP Equipment	-	10% DV - 50% DV
Motor Vehicles	-	20% DV - 25% DV
Network Assets	-	1% SL - 22% DV

**8.0 RECEIVABLES**

Receivables are stated in their estimated reliable value.

**9.0 INCOME TAX**

The income tax expense charged against the profit for the year is the estimated liability in respect of that profit and is calculated after allowance for payment differences. The Company uses the liability method of accounting for deferred taxation and applies this on a comprehensive basis. Future tax benefits attributable to tax losses or timing differences are only recognised where there is virtual certainty of realisation.

**10.0 WORK IN PROGRESS**

The cost of work in progress includes the cost of direct material and direct labour used in putting replacement and new systems in their present location and condition.

**11.0 GOODS AND SERVICES TAX**

These accounts have been prepared on a GST exclusive basis with the exception of Sundry Debtors and Creditors which are GST inclusive.

**THE POWER COMPANY  
LINES BUSINESS  
NOTES TO THE FINANCIAL STATEMENTS  
FOR THE YEAR ENDED 31 MARCH 1995**

**NOTE 1: COMMITMENTS**

At 31 March 1995, the groups external commitments are estimated at \$300,000, being -

Completion of Buildings	\$100,000
GIS Mapping System	\$200,000

**NOTE 2: CONTINGENT LIABILITIES**

There were no contingent liabilities at 31 March 1995.

**NOTE 3: UNITED ELECTRICITY LIMITED**

The Power Company's 25% interest in United Electricity Limited is \$1,971,925.00. Being an exclusively Energy Trading activity, this amount is excluded from these accounts.

**NOTE 4: EVENTS SUBSEQUENT TO BALANCE DATE**

**Corporatisation** - On 30 June 1995 The Power Company was corporatised in preparation for the transfer from Crown to private ownership. The settlement totalled \$22M of which \$10M was paid to the Crown on 30 June 1995, the remaining \$12M is loaned by the Crown repayable by 30 June 1996.

**Contracting Out** - With effect from 30 June 1995 PowerNet Limited privatised its contracting workforce. Fixed Assets with a book value of \$1,473,000 were sold to Contractors. The transfer of assets was funded from a Set Up Advance provided to Contracting Companies, totalling \$840,000. repayable over a 3 year period. The remainder was due and is included within Trade Debtors.

**THE POWER COMPANY LIMITED  
FINANCIAL AND EFFICIENCY  
PERFORMANCE MEASURES**

**PURSUANT TO REGULATION 13 AND PART II OF THE FIRST  
SCHEDULE OF THE ELECTRICITY (INFORMATION DISCLOSURE)  
REGULATIONS 1994**

**12.0 FINANCIAL MEASURES**

*Accounting Return on Total Assets* 5.6%

*Accounting Return on Equity* 4.4%

*Accounting Rate of Profit:* 3.0%

Includes taxation paid of \$2.32 million relating to 1988, which if excluded results in a figure of 5.1%

**13.0 EFFICIENCY PERFORMANCE MEASURES**

*Direct Line Costs per Kilometre* \$435 per km

*Indirect Line Costs per Electricity Customer* \$258 per customer

**THE POWER COMPANY**

**ENERGY EFFICIENCY PERFORMANCE MEASURES AND  
STATISTICS**

**PURSUANT TO REGULATION 15  
ELECTRICITY (INFORMATION DISCLOSURE) REGULATIONS 1994**

**(1) ENERGY DELIVERY EFFICIENCY PERFORMANCE MEASURES**

(a)	Maximum Demand	94,517 kW
(b)	Total kWh Received	529,593,400 kWh
(c)	Total kWh Delivered	489, 845, 671 kWh
(d)	Total kWh Conveyed	11,543,308 kWh
(e)	Load Factor	64%
	Percentage of electrical energy entering the transmission system over maximum demand time hours per year.	
(f)	Loss Ratio	8%
	Transmission losses over energy entering the system.	
(g)	Capacity Utilisation	40%
	Maximum demand over total transformer capacity	

**(2) STATISTICS**

System length, broken by voltage.

	Total (km)	Overhead (km)	Underground (km)
66kV	239.30	239.30	
33kV	468.85	468.10	0.75
11kV	6435.12	6394.56	40.56
6.6kV	0.59		0.59
400V	1107.22	1011.46	95.76
<b>Total</b>	<b>8251.08</b>	<b>8113.42</b>	<b>137.66</b>

Average Transformer Capacity

239,249 kVA

**THE POWER COMPANY**

**RELIABILITY PERFORMANCE MEASURES**

**PURSUANT TO REGULATION 16 ELECTRICITY (INFORMATION  
DISCLOSURE) REGULATIONS 1994**

Reliability Statistics Required for the  
Disclosure Regulations April 1994 - March 1995

	Connected Customers	Line 66kV	Line 33kV	Line 11kV	Line 400V	Cable 33kV	Cable 11kV	Cable 6.6kV	Cable 400V	Total	Density Cust/km
At start of period	34033	239.30	465.93	6389.93	1014.29	0.75	37.12	0.59	94.44	8242.35	0.24
At end of period	34331	239.30	468.10	6394.56	1011.46	0.75	40.56	0.59	95.76	8251.08	0.24
Average	34182	239	467	6392	1013	0.75	39	0.59	95	8247	0.24

Disclosure Regulations	Inter-ruptions	SAIDI		SAIFI		CAIDI
		Cust Mins	Mins/Cust	Cust Int	Int/Cust	Mins/Int
Distributor Planned B	287	1200553	35.6	12545	0.372	96
Distributor Unplanned C	336	4230230	125.4	70791	2.099	60
<b>Subtotal</b>	<b>623</b>	<b>5430783</b>	<b>161.0</b>	<b>83336</b>	<b>2.471</b>	<b>65</b>
Trans Power Planned A	0	0	0	0	0	0
Trans Power Unplanned D	1	15177	0.4	5059	0.15	3
<b>Subtotal</b>	<b>1</b>	<b>15177</b>	<b>0.4</b>	<b>5059</b>	<b>0.15</b>	<b>3</b>
ECNZ Unplanned E	0	0	0	0	0	0
<b>Subtotal</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Other Gen Unplanned F	0	0	0	0	0	0
<b>Subtotal</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Other G	0	0	0	0	0	0
<b>TOTAL</b>	<b>624</b>	<b>5445960</b>	<b>161.4</b>	<b>88395</b>	<b>2.621</b>	<b>62</b>


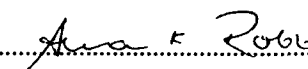
Unplanned Faults by Voltage	OH per 100 km	UG per 100 km	Total per 100 km
66kV	2.1	0	2.1
33kV	1.3	0	1.3
11kV	5.0	23.2	5.1
6.6kV	0	0	0
<b>Total Lines and Cables</b>	<b>4.6</b>	<b>22.4</b>	<b>4.1</b>

**THE POWER COMPANY LIMITED  
 CERTIFICATION OF FINANCIAL STATEMENTS  
 PERFORMANCE MEASURES AND STATISTICS**

I, Keith James McConnell, Chief Executive Officer and Susan Kay Robb, Company Secretary of The Power Company Limited certify that, having made all reasonable enquiry, to the best of our knowledge.

- a) The attached audited financial statements of The Power Company Limited, prepared for the purposes of Regulation 6 of the Electricity (Information Disclosure) Regulations 1994, give a true and fair view of the matters to which they relate and comply with the requirements of those Regulations, and
- b) The attached information being financial measures, energy delivery efficiency performance measures, statistics and reliability performance measures in relation to The Power Company Limited and having been prepared for the purpose of Regulations 13, 14, 15 and 16 of the Electricity (Information Disclosure) Regulations 1994, comply with the requirements of the Electricity (Information Disclosure) Regulations 1994.

The valuations on which those financial performance measures are based are as at 31 March 1995.

Signed:  ..... Signed:  .....

Dated: 27/9/95 ..... Dated: 27/9/95 .....

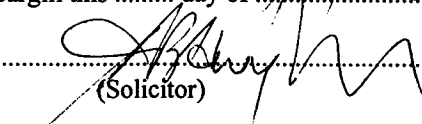
**STATUTORY DECLARATION  
 IN RESPECT OF STATEMENTS AND INFORMATION  
 SUPPLIED TO SECRETARY OF COMMERCE**

I, Keith James McConnell, being the Chief Executive Officer and Susan Kay Robb, Company Secretary of The Power Company Limited, do solemnly and sincerely declare that having made all reasonable enquiry, to the best of my knowledge, the information attached to this Declaration is a true copy of information made available to the public, pursuant to the Electricity (Information Disclosure) Regulations 1994.

And I make this solemn declaration conscientiously believing the same to be true and by virtue of the Oaths and Declarations Act 1957.

Signed:  ..... Signed:  .....

Declared at Invercargill this 27 day of September 1995.

Signed:  .....  
 (Solicitor)

SKR/DEBL958.17




Audit New Zealand

### CERTIFICATION BY AUDITOR IN RELATION TO FINANCIAL STATEMENTS

I have examined the attached financial statements prepared by Southland Electric Power Supply (trading as The Power Company) and dated 30 August 1995 for the purposes of regulation 6 of the Electricity (Information Disclosure) Regulations 1994.

I hereby certify that, having made all reasonable enquiry, to the best of my knowledge, those financial statements give a true and fair view of the matters to which they relate and have been prepared in accordance with the requirements of the Electricity (Information Disclosure) Regulations 1994.



R. B. Robertson  
Audit New Zealand  
on behalf of the Controller and Auditor-General  
30 August 1995  
Dunedin, New Zealand

 **Peat Marwick****Chartered Accountants****CERTIFICATION BY AUDITOR IN RELATION TO ODV VALUATION****THE POWER COMPANY LIMITED**

I have examined the valuation report prepared by KPMG Peat Marwick and dated 5 September 1995, which report contains valuations as at 31 March 1995.

I hereby certify that, having made all reasonable enquiry, to the best of my knowledge, the ODV valuations contained in the report have been made in accordance with the ODV Handbook.



**PETER KANE**  
Partner

6 September 1995



Audit New Zealand

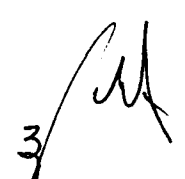
### **CERTIFICATION OF PERFORMANCE MEASURES BY AUDITORS**

I have examined the attached information, being -

- (a) Financial performance measures specified in clause 1 of Part II of the First Schedule to the Electricity (Information Disclosure) Regulations 1994; and
- (b) Financial components of the efficiency performance measures specified in clause 2 of Part II of that Schedule, -

and having been prepared by Southland Electric Power Supply (trading as The Power Company) and dated 7 September 1995 for the purposes of regulation 13 of those regulations.

I certify that, having made all reasonable enquiry, to the best of my knowledge, that information has been prepared in accordance with the Electricity (Information Disclosure) Regulation 1994.

  
3  
R Bruce Robertson  
Audit New Zealand  
on behalf of the Controller and Auditor-General  
7 September 1995  
Dunedin, New Zealand

**POWERNET  
LINE PRICING METHODOLOGY  
FOR THE POWER COMPANY AND ELECTRICITY INVERCARGILL LIMITED  
ELECTRICITY NETWORKS**

**1. INTRODUCTION**

- 1.1** PowerNet Limited (PNL) has responsibility for the management of the two networks owned by Electricity Invercargill Limited (EIL) and The Power Company (TPC).
- 1.2** Each network is treated independently with respect to the accounting of costs and the allocation of the costs to the consumers connected to each respective network.
- 1.3** The total line charge is divided into four components:
- (a) Transmission
  - (b) Subtransmission
  - (c) Distribution
  - (d) Corporate and Metering Costs.

**2. TRANSMISSION CHARGES**

- 2.1** Transmission charges reflect the Trans Power costs incurred by each respective network and also include equivalent costs for the TPC point of supply at Monowai Power Station in Western Southland.
- 2.2** The six points of supply are as follows:
- (a) Invercargill
  - (b) Gore
  - (c) Winton
  - (d) North Makarewa
  - (e) Edendale
  - (f) Monowai

- 2.3** The charges for Trans Power have five components which are:
- (a) Connection charge
  - (b) Capacity charge
  - (c) Network charge
  - (d) South Island differential charge
  - (e) Revenue neutral charge.
- 2.4** The above charges have been allocated across the consumers per each individual point of supply including Monowai where its costs have been allocated on the same basis as the Winton charges, as the existence of Monowai basically avoids extra Trans Power charges for Winton.
- 2.5** The method of allocation for the above charges is based on four consumer parameters as follows:
- (a) The Winter kW Demand (June, July, August)
  - (b) The Winter Day kWhs (May to September inclusive)
  - (c) The Peak Day kWhs (May to September 0700-1100 and 1700-2100 each week day)
  - (d) Total annual kWh.
- 2.6** The Trans Power and Monowai points of supply charges are as shown in Table 1.
- 2.7** The electrical parameters for each point of supply were then determined and are shown in Table 2.
- 2.8** The charge components as described in section 2.3 for each point of supply were then apportioned on the basis of the parameters in section 2.5 and in accordance with the proportions shown in Table 3.
- 2.9** The component charges using the above parameters are shown in Table 4.
- 2.10** For the largest consumers the charges were individually assessed on their respective profiles, but for all the other consumers the charges were allocated on the basis of load group profiles.

- 2.11 A winter after diversity maximum demand is used which is the overall ratio between the summated individual winter maximum demands of the large consumers and the various groups, and the overall winter peak maximum demand for the two individual networks. This year the same ratio was used for all consumers.

### 3. POWERNET CHARGES - GENERAL

#### 3.1 PowerNet charges have three components:

- (a) **Subtransmission charges** which reflect the costs incurred by the existence of the 66,000 and 33,000 volt networks and the zone substations.
- (b) **Distribution charges** which reflect the costs incurred by the 11,000 and 400V distribution networks, distribution transformers and substations.
- (c) Fixed charges per consumer which reflect the **corporate costs** incurred by the Board and executive management, System Control, metering and ripple receivers.

- 3.2 The network asset values are shown in Table 5 and are based on the June 1994 valuation plus 50% of the projected capital expenditure for 1994/95. In the case of The Power Company Network it is based on the book value, and in the case of the Electricity Invercargill network is based on the value of the assets which EIL purchased from the Invercargill City Council. Neither values are based on ODV.

- 3.3 In addition to the asset values the network owners charge PowerNet a "use charge" for the use of their networks. The derivation of the use charge carried out by the asset owner, ie Electricity Invercargill Limited and The Power Company is not part of this methodology. The use charges are allocated across the various network components in the ratio of the asset values of those components to the total. The use charges are also shown in Table 5.

#### 4. SUBTRANSMISSION CHARGES

##### 4.1 THE POWER COMPANY

4.1.1 The subtransmission network was divided up into its constituent components including every line and every zone substation. These components were categorised, ie 66,000 or 33,000V, indoor and outdoor, size, number of transformers, circuit breakers, length of line etc.

4.1.2 All the values were based on the replacement value costs and these values were then split into two components:

- (a) The basic assets required to supply consumers, and
- (b) The incremental value of the extra capacity required to provide a back-up supply to other consumers.

The calculation sheets are shown in Tables 7 and 8.

4.1.3 These values were then reduced using the overall replacement cost : asset value for the network and then their share of the use charge calculated as shown in Table 6.

4.1.4 Each Network component was then selected and the groups of consumers who benefited from each individual component were identified and divided into the class of benefit, ie whether they benefit as the normal method of supply or whether they benefit from it as a backup supply. The calculation sheets for this allocation are shown in Table 9.

4.1.5 The supply part of the charges was allocated using the same parameters as the transmission charges, but slightly different ratios. These are shown in Table 6.

4.1.6 The backup charges were allocated to consumers on a total kWh basis, ie it was considered that a backup supply was important 24 hours a day and more important to higher users. A ratio of 4-1 was used to differentiate the value between commercial and residential consumers.

**4.1.7** The maintenance costs for the subtransmission were based on the 1994/95 estimates and proportioned out to a cost per transformer, length of line etc. These costs were then allocated to each component and for the large consumers the maintenance costs are based on the actual network components used to supply them. The maintenance costs were allocated on the total kWhs on the basis that the more the consumer used, the more important the maintenance of these assets was to provide a reliable supply. For consumers who do not have individual charges the charges were averaged over the zone substations. The figures are shown in Tables 6, 7, 8 and 9.

**4.1.8** The final calculation sheets showing the charges are shown in Tables 10, 11, and 12.

**4.1.9** The above charges were applied to the larger commercial customers on an individual basis which depended on their location and profile. For all other customers the charges were averaged over each load group.

## **4.2 ELECTRICITY INVERCARGILL LIMITED**

**4.2.1** All the costs were averaged over the zone substations for all consumers dependant on load groups. A backup charge equivalent to 15% of the total annual charge relating to the assets was estimated and this was allocated in the ratio of 4:1 between commercial and residential consumers, and as above was charged out per total kWhs.

**4.2.2** The supply part of the charge was allocated on a similar basis to The Power Company subtransmission supply charges.

**4.2.3** The maintenance charges were also allocated in a similar method to The Power Company maintenance charges.

**4.2.4** The values and ratios used are shown in Table 6.

## 5. DISTRIBUTION

### 5.1 THE POWER COMPANY

5.1.1 Each individual 11,000V feeder was identified and its length, the number of transformers, total connected capacity etc were determined. The total kWhs for each feeder was then divided into Winter Peak kWh, Winter Day kWh, and Summer Day kWh, on the same ratio as the zone substations or Trans Power points of supply. This is shown in Tables 13 and 14.

5.1.2 The Use Charges, Supply Charges and Maintenance Costs for the distribution network are shown in Table 15.

5.1.3 In a similar manner as the subtransmission charges, the supply charge was allocated over the capacity of the installation, the Winter Peak energy, the Winter Day energy and the Summer Day energy in the ratios shown in Table 15.

On the distribution system, it was decided to use the connected capacity based on the service fuse, service mains size or agreed capacity, as this directly influenced the size of the local reticulation system. This factor is then smoothed by the use of the energy ratios so that consumers who utilise their demand during the Winter network peak periods will pay more than consumers who use that capacity during the summer.

This calculation sheet is shown in Table 16.

5.1.4 For the non-individual costed consumers, the groupings were divided on the basis of load and allocation. The allocation was in three sectors:

- (a) Urban
- (b) Rural
- (c) Isolated Rural.

- 5.1.5** The urban consumers connected to The Power Company Network are located in Invercargill, Gore, Winton, Te Anau and Maitara. The boundary between the urban and rural consumers is at the point in the Network coincident with the outer most quarter acre section. Small rural towns were not included in this category as the number of inhabitants in the urban area had to exceed 3,000.
- 5.1.6** The isolated rural consumers were those consumers connected to The Power Company Network who were at least 5 km further down the line than the nearest connection.
- 5.1.7** Most of the consumers connected to The Power Company network are in the rural areas and from previous investigations and reports, it has been found that the rural density was pretty well uniform throughout Southland apart from the above isolated rural consumers.
- 5.1.8** The calculation sheets for these groups are shown in Tables 17 and 18.

## **5.2 ELECTRICITY INVERCARGILL LIMITED**

- 5.2.1** All the distribution costs in the Electricity Invercargill area were averaged over the city and Bluff and allocated across all the consumers in the ratios shown in Table 15 and using the similar parameters as The Power Company.
- 5.2.2** The calculations are included in the Appendices referred to throughout Section 5.1.

## **6. CORPORATE COSTS**

- 6.1** All the corporate costs were divided into the costs associated with ripple receivers and meters and the costs associated with the overheads including System Control. The overhead charges were allocated on a per connection basis and likewise the ripple receivers and meters.
- 6.2** There is an extra cost allocated to consumers over 100kVA to allow for enhanced metering which will provide maximum demand kVA plus the energy usage in the required time zones for those consumers who will have individual charges within the next two years.

**6.3** There is also a surcharge for multiple metered installations connected to one point of supply on the distribution network and prepayment key meters.

**6.4** Table 19 shows the calculation sheet.

## **7. LINE CHARGES**

**7.1** The charges derived through the above methodology and the charges approved by the Board are shown in Table 20.

TABLE 2

TRANSMISSION POINT OF SUPPLY ELECTRICAL PARAMETERS						
POINT OF SUPPLY	TOTAL kWh	PEAK kWh	WINTER DAY kWh	SUMMER DAYkWh	ANYTIME AVE MD	WINTER AVE MD
GORE	115,098,776	24,005,770	37,283,423	47,782,839	28,400	28,000
EDENDALE	25,039,715	4,388,077	6,744,396	11,612,713	6,000	5,200
INVERCARGILL EIL	233,729,199	55,107,605	84,960,029	82,250,604	60,300	57,437
INVERCARGILL TPC	113,287,811	26,710,483	41,179,860	39,866,610	31,262	29,563
NORTH MAKAREWA	57,046,170	9,610,780	15,198,426	26,296,586	20,000	16,926
WINTON	63,790,363	12,622,582	19,351,051	28,141,561	20,000	15,870
<b>SUB-TOTAL</b>	<b>607,992,035</b>	<b>132,445,298</b>	<b>204,717,185</b>	<b>235,950,912</b>	<b>165,962</b>	<b>152,996</b>
Monowai	31,261,211	7,815,303	16,349,254	10,899,503	7,000	6,900
<b>TOTAL</b>	<b>639,253,246</b>	<b>140,260,600</b>	<b>221,066,439</b>	<b>246,850,415</b>	<b>172,962</b>	<b>159,896</b>
<b>TOTAL no losses</b>	<b>697,574,971</b>	<b>149,402,455</b>	<b>235,522,421</b>	<b>263,307,931</b>		

TABLE 1

TRANSMISSION POINT OF SUPPLY CHARGES						
POINT OF SUPPLY	CONNECTION CHARGE	CAPACITY CHARGE	NETWORK CHARGE	STH ISLAND REBATE	REV NEUTRAL ADJUSTMENT	TOTAL
GORE	\$295,854	\$1,040,120	\$640,578	(\$273,970)	\$715,990	\$2,422,925
EDENDALE	\$74,196	\$171,185	\$144,670	(\$52,696)	\$133,983	\$472,186
INVERCARGILL EIL	\$634,858	\$2,610,460	\$1,009,508	(\$495,132)	\$290,222	\$4,057,205
INVERCARGILL TPC	\$200,481	\$824,356	\$318,792	(\$156,358)	\$91,649	\$1,281,223
NORTH MAKAREWA	\$618,783	\$437,415	\$96,743	(\$68,747)	\$379,062	\$1,465,890
WINTON	\$285,331	\$487,808	\$328,842	(\$138,558)	\$419,702	\$1,385,615
<b>SUB-TOTAL</b>	<b>\$2,109,503</b>	<b>\$5,571,344</b>	<b>\$2,539,133</b>	<b>(\$1,185,461)</b>	<b>\$2,030,608</b>	<b>\$11,085,044</b>
MONOWAI	\$99,525	\$120,445	\$220,058	(\$66,016)	\$199,967	\$573,980
<b>TOTAL</b>	<b>\$2,209,028</b>	<b>\$5,691,789</b>	<b>\$2,759,191</b>	<b>(\$1,251,477)</b>	<b>\$2,230,575</b>	<b>\$11,659,024</b>

TABLE 4

TRANSMISSION POINT COST APPORTIONMENT						
POINT OF SUPPLY	CONNECTION CHARGE			CAPACITY CHARGE		
	per Peak kWh	per Winter kWh	per Winter kW	per Peak kWh	per Winter kWh	per Winter kW
GORE	\$0.0025	\$0.0022	\$7.40	\$0.0130	\$0.0078	\$22.29
EDENDALE	\$0.0034	\$0.0031	\$9.99	\$0.0117	\$0.0073	\$19.75
INVERCARGILL EIL	\$0.0023	\$0.0021	\$7.74	\$0.0142	\$0.0087	\$27.27
INVERCARGILL TPC	\$0.0015	\$0.0014	\$4.75	\$0.0093	\$0.0057	\$16.73
NORTH MAKAREWA	\$0.0129	\$0.0111	\$25.59	\$0.0137	\$0.0078	\$15.51
WINTON & MONOWAI	\$0.0038	\$0.0050	\$11.83	\$0.0089	\$0.0040	\$16.03
TPC AVERAGE	\$0.0027	\$0.0023	\$9.41	\$0.0092	\$0.0052	\$18.50

POINT OF SUPPLY	NETWORK CHARGE		SI REBATE per Total kWh	REV NEUTRAL per Total kWh
	per Winter kWh	per Summer kWh		
GORE	\$0.0120	\$0.0040	(\$0.0024)	\$0.0062
EDENDALE	\$0.0150	\$0.0037	(\$0.0021)	\$0.0054
INVERCARGILL EIL	\$0.0083	\$0.0037	(\$0.0021)	\$0.0012
INVERCARGILL TPC	\$0.0054	\$0.0024	(\$0.0014)	\$0.0008
NORTH MAKAREWA	\$0.0045	\$0.0011	(\$0.0012)	\$0.0066
WINTON & MONOWAI	\$0.0108	\$0.0042	(\$0.0022)	\$0.0065
TPC AVERAGE	\$0.0081	\$0.0035	(\$0.0017)	\$0.0041

TABLE 3

Transmission Charge Allocations			
<b>Connection Charge Ratios</b>		<b>Capacity Charge Ratios</b>	
Winter MD	70%	Winter MD	60%
Peak Day kWh	20%	Peak Day kWh	30%
Remain Winter Day kWh	10%	Remain Winter Day kWh	10%
<b>Network Charge Ratios</b>			
Winter Day kWh	70%		
Summer Day kWh	30%		
<b>Rev/Exp Balance</b>	<b>Exp</b>	<b>Rev</b>	
EIL charges	\$4,056,000	\$4,059,685	
TPC Charges	\$7,603,000	\$7,599,929	
Total Charges	\$11,659,000	\$11,659,614	

TABLE 5

<b>Shareholder Requirements</b>	
EIL NETWORK VALUE	\$16,541,520
EIL TOTAL ASSET VALUE	\$17,732,667
EIL USE CHARGE	\$4,200,000
TPC NETWORK VALUE	\$28,795,352
TPC TOTAL ASSET VALUE	\$32,163,637
TPC USE CHARGE	\$5,740,000

TABLE 6

<b>SUBTRANSMISSION CHARGES</b>							
<b>TPC</b>		<b>Asset Value</b>	<b>Total</b>	<b>Use Charge</b>	<b>Mtce. Cost</b>	<b>Mtce. Cost /km Line</b>	
<b>Substation</b>	-Transformers	\$961,345	<b>\$4,959,787</b>	<b>\$885,135</b>	<b>\$601,256</b>		
	-Switchgear	\$1,603,097					
	-Scada	\$309,299					
	-Communications	\$481,942					
	-Buildings	\$210,991					
	-Land etc.	\$236,428					
	-Capital	\$200,000					
	-Load Control (30%)	\$956,685					
	<b>Lines</b>	-O/H Lines					\$1,345,649
		-Globo(100%)					\$1,174,079
-Capital		\$500,000					
-Load Control(20%)		\$637,790					
		<b>\$3,657,518</b>	<b>\$652,729</b>	<b>\$477,350</b>	<b>\$667</b>		
<b>EIL</b>		<b>Asset Value</b>	<b>Total</b>	<b>Use Charge</b>	<b>Mtce. Cost</b>		
<b>Substation</b>	-Transformers	\$603,012	<b>\$1,950,030</b>	<b>\$461,866</b>	<b>\$94,840</b>		
	-Auxiliary Plant/Scada	\$219,777					
	-Buildings	\$393,435					
	-Land etc	\$5,712					
	-33kV Switchgear	\$80,956					
	-11kV Switchgear	\$500,000					
	-400V Switchgear	\$100,000					
	-Capital	\$10,000					
	-Load Control(12.5%)	\$37,138					
	<b>Lines</b>	-O/H Lines					\$4,232
-U/G Cables		\$653,318					
-Load Control(12.5%)		\$37,138					
		<b>\$694,688</b>	<b>\$164,537</b>	<b>\$5,440</b>			
<b>Supply Charge Allocation</b>			<b>Back Up &amp; Mtce. Charge Allocation</b>				
Capacity kVA	0%		Total kWh	100%			
Winter MD kVA	70%						
Winter Peak kWh	20%						
Winter Day kWh	10%						
Summer Day kWh	0%						
<b>Rev/Exp. Balance</b>	<b>Exp</b>	<b>Rev</b>					
EIL Charges	\$726,684	\$726,684					
TPC Charges	\$2,616,471	\$2,628,080					
<b>Total</b>	<b>\$3,343,155</b>	<b>\$3,354,764</b>					

TABLE 7

ZONE SUBSTATION COST ANALYSIS																
Base Fixed Cost \$200,000 Base Cost per Transformer \$150,000 Base Tx Cost per MVA \$20,000 Base Cost per 33kV CB \$65,000 Base Cost per 11kV CB \$35,000																
SUBSTATION	33/66kV Factor	Sub Size Factor	Mtce Factor	I/S:O/S	No. Txs	MVA	33kV CBs	11kV CBs	Fixed Sub. Costs	Tx Costs	Tx MVA Costs	33kV CB Costs	11kV CB Costs	Replacement Cost	Annual Cost	Mtce Cost
TE ANAU	1	1	1.13	O/S	1	5	0	4	\$200,000	\$150,000	\$100,000	\$0	\$140,000	\$590,000	\$20,968	\$21,864
MANAPOURI	1	0.7	0.79	O/S	2	3	0	2	\$140,000	\$300,000	\$60,000	\$0	\$70,000	\$570,000	\$20,257	\$15,305
HILLSIDE	1.15	1	1.13	O/S	3	11	3	2	\$200,000	\$450,000	\$220,000	\$195,000	\$70,000	\$1,135,000	\$40,337	\$21,864
HEDDONBUSH	1.15	1	1.13	O/S	1	10	4	0	\$200,000	\$150,000	\$200,000	\$260,000	\$0	\$810,000	\$28,787	\$21,864
WINTON	1	1	1.13	I/S	3	15	0	8	\$200,000	\$450,000	\$300,000	\$0	\$280,000	\$1,230,000	\$43,713	\$21,864
OHAU	1.15	1.3	1.47	O/S	2	9	5	6	\$260,000	\$300,000	\$180,000	\$325,000	\$210,000	\$1,275,000	\$45,312	\$28,423
MONOWAI	1.15	1.1	1.24	O/S	2	15	0	2	\$220,000	\$300,000	\$300,000	\$0	\$70,000	\$890,000	\$31,630	\$24,050
ORAWIA	1.15	1	1.13	O/S	1	5	0	5	\$200,000	\$150,000	\$100,000	\$0	\$175,000	\$625,000	\$22,212	\$21,864
OTAUTAU	1	0.8	0.91	O/S	1	5	0	5	\$160,000	\$150,000	\$100,000	\$0	\$175,000	\$585,000	\$20,790	\$17,491
CENTRE BUSH	1	0.6	0.68	O/S	1	5	0	2	\$120,000	\$150,000	\$100,000	\$0	\$70,000	\$440,000	\$15,637	\$13,118
DIPTON	1	0.5	0.57	O/S	1	1.5	0	2	\$100,000	\$150,000	\$30,000	\$0	\$70,000	\$350,000	\$12,439	\$10,932
LUMSDEN	1	1	1.13	O/S	1	5	3	5	\$200,000	\$150,000	\$100,000	\$195,000	\$175,000	\$820,000	\$29,142	\$21,864
MOSSBURN	1	0.6	0.68	O/S	1	1.5	0	2	\$120,000	\$150,000	\$30,000	\$0	\$70,000	\$370,000	\$13,149	\$13,118
RIVERSDALE	1	0.7	0.79	O/S	1	5	0	5	\$140,000	\$150,000	\$100,000	\$0	\$175,000	\$565,000	\$20,080	\$15,305
NORTH GORE	1	1	1.13	I/S	2	20	0	7	\$200,000	\$300,000	\$400,000	\$0	\$245,000	\$1,145,000	\$40,692	\$21,864
KELSO	1	1	1.13	O/S	1	5	0	5	\$200,000	\$150,000	\$100,000	\$0	\$175,000	\$625,000	\$22,212	\$21,864
CONICAL HILLS	1	1	1.13	O/S	2	3	1	4	\$200,000	\$300,000	\$60,000	\$65,000	\$140,000	\$765,000	\$27,187	\$21,864
SOUTH GORE	1	1	1.13	I/S	2	12	0	7	\$200,000	\$300,000	\$240,000	\$0	\$245,000	\$985,000	\$35,006	\$21,864
MATAURA	1	0.9	1.02	I/S	2	20	0	6	\$180,000	\$300,000	\$400,000	\$0	\$210,000	\$1,090,000	\$38,738	\$19,677
EDENDALE	1	1.1	1.24	I/S	2	10.5	1	12	\$220,000	\$300,000	\$210,000	\$65,000	\$420,000	\$1,215,000	\$43,180	\$24,050
GLENHAM	1	0.6	0.68	O/S	1	1.5	0	2	\$120,000	\$150,000	\$30,000	\$0	\$70,000	\$370,000	\$13,149	\$13,118
RIVERTON	1	1.1	1.24	I/S	1	5	0	6	\$220,000	\$150,000	\$100,000	\$0	\$210,000	\$680,000	\$24,167	\$24,050
UNDERWOOD	1	1.2	1.36	I/S	2	20	3	7	\$240,000	\$300,000	\$400,000	\$195,000	\$245,000	\$1,380,000	\$49,044	\$26,237
MAKAWERA	1	1	1.13	I/S	2	23	0	7	\$200,000	\$300,000	\$460,000	\$0	\$245,000	\$1,205,000	\$42,825	\$21,864
OTATARA	1	0.6	0.68	O/S	1	5	0	3	\$120,000	\$150,000	\$100,000	\$0	\$105,000	\$475,000	\$16,881	\$13,118
WAIKIWI	1	1	1.13	I/S	2	12	1	7	\$200,000	\$300,000	\$240,000	\$65,000	\$245,000	\$1,050,000	\$37,316	\$21,864
SEAWARD BUSH	1	1	1.13	I/S	2	20	0	7	\$200,000	\$300,000	\$400,000	\$0	\$245,000	\$1,145,000	\$40,692	\$21,864
AWARUA	1	0.6	0.68	O/S	1	5	1	1	\$120,000	\$150,000	\$100,000	\$65,000	\$35,000	\$470,000	\$16,703	\$13,118
BLUFF	1	1	1.13	I/S	2	12	2	7	\$200,000	\$300,000	\$240,000	\$130,000	\$245,000	\$1,115,000	\$39,626	\$21,864
GORGE ROAD	1	0.5	0.57	O/S	2	1.55	0	2	\$100,000	\$300,000	\$31,000	\$0	\$70,000	\$501,000	\$17,805	\$10,932
TOKANUI	1	0.6	0.68	O/S	1	3	0	3	\$120,000	\$150,000	\$60,000	\$0	\$105,000	\$435,000	\$15,459	\$13,118

TABLE 8

TOTAL TPC SUBTRANSMISSION COST ANALYSIS												
TPC Asset	Line Constr. Year	Conductor Type	Length (km)	Constr. Factor	Conductor Cost	66/55kV Line Repl. Cost	66/55kV Line Ann. Cost	Subtrans. Annual Cost	Subtrans. Supply Cost	Subtrans. Back Up Cost	Subtrans. Mtoe. Cost	
TE ANAU - HILLSIDE	1963	MINK	12.85	1	3.81	\$370,209	\$9,511	\$9,511	\$9,511	\$0	\$8,567	
TE ANAU SUB								\$20,968	\$20,968	\$0	\$21,884	
MANAPOURI - HILLSIDE	1973	MINK	12.54	1	3.81	\$361,277	\$9,281	\$9,281	\$9,281	\$0	\$6,360	
MANAPOURI SUB								\$20,257	\$20,257	\$0	\$15,305	
HILLSIDE - HEDDONBUSH	1984	WOLF	89.13	1.3	7.85	\$3,578,570	\$91,936	\$91,936	\$78,146	\$13,790	\$59,421	
HILLSIDE SUB								\$40,337	\$34,286	\$6,051	\$21,864	
WINTON - HEDDONBUSH (N)	1984	WOLF	18.94	1.8	15.3	\$1,142,082	\$29,341	\$29,341	\$24,940	\$4,401	\$12,827	
WINTON - HEDDONBUSH (S)	1984	WOLF	16.81	1.8	15.3	\$1,013,643	\$26,041	\$26,041	\$18,229	\$7,812	\$11,207	
HEDDON BUSH SUB								\$26,787	\$20,151	\$6,636	\$21,864	
WINTON SUB								\$43,713	\$30,599	\$13,114	\$21,864	
HILLSIDE - MONAWAI	1952	MINK	41.55	1.2	3.81	\$1,404,806	\$36,091	\$36,091	\$0	\$36,091	\$27,701	
MONAWAI - OHAI	1940	7/13 Cu	32.49	1.2	7.62	\$1,222,274	\$31,401	\$31,401	\$25,121	\$6,280	\$21,660	
OHAI SUB								\$45,312	\$6,515	\$6,797	\$28,423	
MONOWAI SUB								\$31,630	\$25,304	\$6,326	\$24,050	
OHAI - ORAWA	1940	MINK	22.03	1.2	3.81	\$744,834	\$19,135	\$19,135	\$19,135	\$0	\$14,687	
ORAWA SUB								\$22,212	\$22,212	\$0	\$21,864	
OHAI - HEDDONBUSH	1940	7/13 Cu	20.21	1.2	7.62	\$780,300	\$19,533	\$19,533	\$15,626	\$3,907	\$13,474	
HEDDONBUSH - OTAUTAU	1979	MINK	14.83	1	3.81	\$421,490	\$10,828	\$10,828	\$10,828	\$0	\$9,754	
OTAUTAU SUB								\$20,790	\$20,790	\$0	\$17,491	
HEDDONBUSH - CENTREBUSH	1983	DOG	12.76	1	6.78	\$405,513	\$10,418	\$10,418	\$7,293	\$3,125	\$8,507	
CENTREBUSH SUB								\$15,637	\$10,946	\$4,691	\$13,118	
CENTREBUSH - DIPTON	1984	DOG	20.16	1	6.78	\$640,685	\$16,460	\$16,460	\$11,522	\$4,938	\$13,440	
DIPTON SUB								\$12,439	\$8,707	\$3,732	\$10,932	
DIPTON - LUMSDEN	1984	DOG	21.36	1	6.78	\$673,821	\$17,439	\$17,439	\$12,208	\$5,232	\$14,240	
LUMSDEN SUB								\$29,142	\$20,399	\$8,743	\$21,864	
LUMSDEN - MOSSBURN	1986	DOG	21.46	1	6.78	\$681,999	\$17,521	\$17,521	\$17,521	\$0	\$14,307	
MOSSBURN SUB								\$13,149	\$13,149	\$0	\$13,118	
LUMSDEN - RIVERSDALE TEE	1969	MINK	28.32	1	3.81	\$615,899	\$20,961	\$20,961	\$0	\$20,961	\$18,880	
RIVERSDALE TEE - RIVERSDALE	1969	MINK	4.43	1	3.81	\$127,628	\$3,279	\$3,279	\$3,279	\$0	\$2,953	
RIVERSDALE SUB								\$20,080	\$20,080	\$0	\$15,305	
RIVERSDALE TEE - GORE TIE		WOLF	27.08	1.1	7.65	\$951,862	\$24,454	\$24,454	\$19,563	\$4,891	\$18,054	
GORE TIE - GORE (R)	1975	WOLF	1.4	1.5	15.3	\$73,920	\$1,899	\$1,899	\$1,614	\$285	\$933	
GORE TIE - GORE (K)	1975	WOLF	1.4	1.5	15.3	\$73,920	\$1,899	\$1,899	\$1,614	\$285	\$933	
GORE - NORTH GORE (2)		WOLF	3.09	1.5	15.3	\$183,152	\$4,191	\$4,191	\$3,353	\$838	\$2,060	
NORTH GORE SUB								\$40,692	\$32,554	\$8,138	\$21,864	
NORTH GORE - NORTH GORE TIE		MINK	0.67	1	3.81	\$19,303	\$496	\$496	\$0	\$496	\$447	
NORTH GORE TIE - GORE TIE		MINK	2.26	1	3.81	\$65,111	\$1,673	\$1,673	\$1,422	\$251	\$1,507	
NORTH GORE TIE - KELSO	1986	MINK	27.22	1	3.81	\$784,208	\$20,147	\$20,147	\$18,132	\$2,015	\$18,147	
KELSO SUB								\$22,212	\$22,212	\$0	\$21,864	
KELSO - CONICAL HILLS	1991	MINK	16	1	3.81	\$480,960	\$11,842	\$11,842	\$10,658	\$1,184	\$10,667	
SOUTH GORE - CONICAL HILLS	1992	MINK	26	1	3.81	\$749,060	\$19,244	\$19,244	\$19,320	\$1,924	\$17,334	
CONICAL HILLS SUB								\$27,187	\$24,469	\$2,719	\$21,864	
GORE - SOUTH GORE	1991	DOG (2C)	1.74	1.5	13.56	\$88,844	\$2,282	\$2,282	\$2,282	\$0	\$1,160	
SOUTH GORE SUB								\$35,006	\$35,006	\$0	\$21,864	
GORE - MATAURA	1973	DOG	8.79	1	6.78	\$279,346	\$7,177	\$7,177	\$5,741	\$1,435	\$5,660	
MATAURA SUB								\$38,738	\$30,990	\$7,748	\$19,677	
MATAURA - EDENDALE	1978	DOG	22.14	1	6.78	\$703,609	\$18,076	\$18,076	\$0	\$18,076	\$14,760	
EDENDALE SUB								\$43,180	\$30,226	\$12,954	\$24,050	
EDENDALE - GLENHAM	1973	MINK	11.33	1	3.81	\$326,417	\$8,386	\$8,386	\$8,386	\$0	\$7,553	
GLENHAM SUB								\$13,149	\$13,149	\$0	\$13,118	
RIVERTON - CROWE ROAD TIE	1970	MINK	22.53	1	3.81	\$649,089	\$16,676	\$16,676	\$16,676	\$0	\$15,020	
RIVERTON SUB								\$24,167	\$24,167	\$0	\$24,050	
CROWE ROAD TIE - INVERCARGILL	1975	COCKROACH (2C)	9.78	1.5	11.6	\$480,198	\$12,337	\$12,337	\$9,889	\$2,467	\$6,520	
UNDERWOOD - CROWE ROAD TIE (W)	1975	COCKROACH	1.19	1.5	11.6	\$58,429	\$1,501	\$1,501	\$0	\$1,501	\$793	
UNDERWOOD - CROWE ROAD TIE (E)	1975	COCKROACH	1.19	1.5	11.6	\$58,429	\$1,501	\$1,501	\$1,201	\$300	\$793	
UNDERWOOD - CROWE ROAD TIE (R)	1975	MINK	1.19	1	3.81	\$34,284	\$881	\$881	\$881	\$0	\$793	
MAKAREWA - UNDERWOOD	1966	19/14 Cu	4.5	1	7.91	\$148,095	\$3,805	\$3,805	\$3,044	\$761	\$3,000	
UNDERWOOD SUB								\$49,044	\$39,235	\$9,809	\$26,237	
MAKAREWA - NORTH MAKAREWA (N)	1986	WOLF	4.08	1.5	15.3	\$215,424	\$5,534	\$5,534	\$4,961	\$553	\$2,720	
MAKAREWA SUB								\$42,825	\$38,542	\$4,282	\$21,864	
MAKAREWA - NORTH MAKAREWA (S)	1986	WOLF	4.08	1.5	15.3	\$215,424	\$5,534	\$5,534	\$4,961	\$553	\$2,720	
WAIKIWI - WESTPLAINS TEE		CRICKET	3.89	1.2	7.91	\$147,470	\$3,789	\$3,789	\$2,652	\$1,137	\$2,593	
CROWE ROAD TIE - WESTPLAINS TEE		MINK	1.82	1	3.81	\$52,434	\$1,347	\$1,347	\$0	\$1,347	\$1,213	
WESTPLAINS TEE - OTATARA		MINK	4.89	1	3.81	\$140,881	\$3,619	\$3,619	\$3,619	\$0	\$3,260	
WESTPLAINS TEE - OTATARA		DOG	4.415	1	6.78	\$140,309	\$3,605	\$3,605	\$3,605	\$0	\$2,943	
OTATARA SUB								\$16,881	\$16,881	\$0	\$13,118	
INVERCARGILL - WAIKIWI		COCKROACH	4.67	1.1	5.8	\$155,511	\$3,995	\$3,995	\$3,196	\$799	\$3,113	
WAIKIWI SUB								\$37,316	\$29,853	\$7,463	\$21,864	
INVERCARGILL - SEAWARDBUSH (W)		COCKROACH	7.73	1.2	5.8	\$276,734	\$7,110	\$7,110	\$6,754	\$355	\$5,153	
SEAWARD BUSH SUB								\$40,692	\$38,658	\$2,035	\$21,864	
INVERCARGILL - SEAWARDBUSH TEE (E)		MINK	6.78	1.5	7.72	\$306,592	\$7,877	\$7,877	\$6,301	\$1,575	\$4,520	
INVERCARGILL - SEAWARDBUSH TEE (W)		MINK	6.78	1.5	7.72	\$306,592	\$7,877	\$7,877	\$6,301	\$1,575	\$4,520	
SEAWARDBUSH TEE - SEAWARDBUSH		COCKROACH	1.59	1.2	5.8	\$68,922	\$1,462	\$1,462	\$0	\$1,462	\$1,060	
SEAWARDBUSH TEE - AWARUA FORK (E)		MINK	4.59	1.5	7.72	\$207,560	\$5,332	\$5,332	\$5,332	\$0	\$3,060	
SEAWARDBUSH TEE - AWARUA FORK (W)		MINK	4.59	1.5	7.72	\$207,560	\$5,332	\$5,332	\$4,799	\$533	\$3,060	
AWARUA FORK - AWARUA SUB (1C)		MINK	1.11	1	3.81	\$31,979	\$822	\$822	\$822	\$0	\$740	
AWARUA SUB								\$16,703	\$16,703	\$0	\$13,118	
AWARUA FORK - AWARUA SUB (2C)		MINK	1.11	1.5	7.72	\$50,194	\$1,290	\$1,290	\$1,161	\$129	\$740	
AWARUA - BLUFF		MINK	14.43	1	6.78	\$458,297	\$11,774	\$11,774	\$11,774	\$0	\$9,620	
AWARUA - STANLEY		MINK	8.71	1.5	7.72	\$393,866	\$10,119	\$10,119	\$10,119	\$0	\$5,807	
STANLEY - BLUFF		19/14 Cu	4.705	1	7.91	\$154,842	\$3,978	\$3,978	\$3,978	\$0	\$3,137	
BLUFF SUB								\$39,626	\$39,626	\$0	\$21,864	
INVERCARGILL - GORGE ROAD		MINK	27.34	1	3.81	\$787,865	\$20,236	\$20,236	\$20,236	\$0	\$18,227	
GORGE ROAD SUB								\$17,805	\$17,805	\$0	\$10,932	
GORGE ROAD - TOKANUI		MINK	19.53	1	3.81	\$562,859	\$14,455	\$14,455	\$14,455	\$0	\$13,020	
TOKANUI SUB								\$15,459	\$15,459	\$0	\$13,118	

TABLE 9

TPC SUBTRANS COST PER SUBSTATION								
TPC Asset	TE ANAU SU	TE ANAU BU	MANAPOURI SU	MANAPOURI BU	HILLSIDE SU	HILLSIDE BU	MONOWAI SU	MONOWAI BU
TE ANAU - HILLSIDE	\$9,511	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TE ANAU SUB	\$20,968	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MANAPOURI - HILLSIDE	\$0	\$0	\$9,281	\$0	\$0	\$0	\$0	\$0
MANAPOURI SUB	\$0	\$0	\$20,257	\$0	\$0	\$0	\$0	\$0
HILLSIDE - HEDDONBUSH	\$55,566	\$0	\$13,892	\$0	\$8,679	\$0	\$0	\$836
HILLSIDE SUB	\$3,227	\$0	\$807	\$0	\$32,269	\$0	\$0	\$367
WINTON - HEDDONBUSH (N)	\$17,734	\$0	\$4,433	\$0	\$2,770	\$0	\$0	\$267
WINTON - HEDDONBUSH (S)	\$0	\$878	\$0	\$219	\$0	\$138	\$0	\$255
HEDDON BUSH SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$337
WINTON SUB	\$3,633	\$0	\$909	\$0	\$568	\$0	\$0	\$166
HILLSIDE - MONOWAI	\$0	\$8,091	\$0	\$2,025	\$0	\$1,263	\$0	\$1,516
MONOWAI - OHAI	\$0	\$2,101	\$0	\$524	\$0	\$330	\$0	\$393
OHAI SUB	\$0	\$716	\$0	\$181	\$0	\$113	\$0	\$281
MONOWAI SUB	\$0	\$1,619	\$0	\$253	\$0	\$405	\$22,141	\$0
OHAI - ORAWIA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ORAWIA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OHAI - HEDDONBUSH	\$0	\$252	\$0	\$63	\$0	\$39	\$0	\$137
HEDDONBUSH - OTAUTAU	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTAUTAU SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HEDDONBUSH - CENTREBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$54
CENTREBUSH SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23
CENTREBUSH - DIPTON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$82
DIPTON SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$37
DIPTON - LUMSDEN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$85
LUMSDEN SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$105
LUMSDEN - MOSSBURN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MOSSBURN SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
LUMSDEN - RIVERSDALE TEE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$176
RIVERSDALE TEE - RIVERSDALE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERSDALE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERSDALE TEE - GORE TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$44
GORE TIE - GORE (R)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3
GORE TIE - GORE (K)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORE - NORTH GORE (2)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE - NORTH GORE TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE TIE - GORE TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE TIE - KELSO	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
KELSO SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
KELSO - CONICAL HILLS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SOUTH GORE - CONICAL HILLS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONICAL HILLS SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORE - SOUTH GORE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SOUTH GORE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORE - MATAURA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MATAURA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MATAURA - EDENDALE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
EDENDALE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
EDENDALE - GLENHAM	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GLENHAM SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERTON - CROWE ROAD TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERTON SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CROWE ROAD TIE - INVERCARGILL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (R)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA - UNDERWOOD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA - NORTH MAKAREWA (N)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA - NORTH MAKAREWA (S)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WAIKIWI - WESTPLAINS TEE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CROWE ROAD TIE - WESTPLAINS TEE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WESTPLAINS TEE - OTATARA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WESTPLAINS TEE - OTATARA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTATARA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - WAIKIWI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WAIKIWI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - SEAWARDBUSH (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARD BUSH SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - SEAWARDBUSH TEE (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - SEAWARDBUSH TEE (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - SEAWARDBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - AWARUA FORK (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - AWARUA FORK (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA FORK - AWARUA SUB (1C)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA FORK - AWARUA SUB (2C)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA - BLUFF	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA - STANLEY	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
STANLEY - BLUFF	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
BLUFF SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - GORGE ROAD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORGE ROAD SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORGE ROAD - TOKANUI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOKANUI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL PER SUBSTATION	\$110,638	\$13,657	\$49,580	\$3,265	\$44,286	\$2,288	\$22,141	\$5,164

TABLE 9(contd)

TPC SUBTRANS COST PER SUBSTATION								
TPC Asset	ORAWIA SU	ORAWIA BU	OHAU SU	OHAU BU	OTAUTAU SU	OTAUTAU BU	WINTON SU	WINTON BU
TE ANAU - HILLSIDE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TE ANAU SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MANAPOURI - HILLSIDE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MANAPOURI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HILLSIDE - HEDDONBUSH	\$0	\$2,786	\$0	\$2,786	\$0	\$2,786	\$0	\$0
HILLSIDE SUB	\$0	\$1,222	\$0	\$1,222	\$0	\$1,222	\$0	\$0
WINTON - HEDDONBUSH (N)	\$0	\$889	\$0	\$889	\$0	\$889	\$0	\$0
WINTON - HEDDONBUSH (S)	\$0	\$852	\$0	\$852	\$0	\$852	\$0	\$2,943
HEDDON BUSH SUB	\$0	\$1,120	\$0	\$1,120	\$0	\$1,120	\$0	\$3,863
WINTON SUB	\$0	\$546	\$0	\$546	\$0	\$546	\$30,599	\$0
HILLSIDE - MONAWAI	\$0	\$5,053	\$0	\$5,053	\$0	\$5,053	\$0	\$0
MONAWAI - OHAU	\$8,375	\$0	\$8,375	\$0	\$8,375	\$0	\$0	\$1,856
OHAU SUB	\$1,341	\$0	\$36,250	\$0	\$1,341	\$0	\$0	\$3,222
MONOWAI SUB	\$1,518	\$0	\$1,518	\$0	\$1,518	\$0	\$0	\$1,683
OHAU - ORAWIA	\$19,135	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ORAWIA SUB	\$22,212	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OHAU - HEDDONBUSH	\$0	\$459	\$0	\$459	\$15,626	\$0	\$0	\$1,580
HEDDONBUSH - OTAUTAU	\$0	\$0	\$0	\$0	\$10,828	\$0	\$0	\$0
OTAUTAU SUB	\$0	\$0	\$0	\$0	\$20,790	\$0	\$0	\$0
HEDDONBUSH - CENTREBUSH	\$0	\$179	\$0	\$179	\$0	\$179	\$0	\$620
CENTREBUSH SUB	\$0	\$75	\$0	\$75	\$0	\$75	\$0	\$263
CENTREBUSH - DIPTON	\$0	\$277	\$0	\$277	\$0	\$277	\$0	\$951
DIPTON SUB	\$0	\$124	\$0	\$124	\$0	\$124	\$0	\$430
DIPTON - LUMSDEN	\$0	\$284	\$0	\$284	\$0	\$284	\$0	\$982
LUMSDEN SUB	\$0	\$350	\$0	\$350	\$0	\$350	\$0	\$1,204
LUMSDEN - MOSSBURN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MOSSBURN SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
LUMSDEN - RIVERSDALE TEE	\$0	\$587	\$0	\$587	\$0	\$587	\$0	\$2,027
RIVERSDALE TEE - RIVERSDALE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERSDALE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERSDALE TEE - GORE TIE	\$0	\$144	\$0	\$144	\$0	\$144	\$0	\$499
GORE TIE - GORE (R)	\$0	\$8	\$0	\$8	\$0	\$8	\$0	\$29
GORE TIE - GORE (K)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORE - NORTH GORE (2)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE - NORTH GORE TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE TIE - GORE TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE TIE - KELSO	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
KELSO SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
KELSO - CONICAL HILLS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SOUTH GORE - CONICAL HILLS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONICAL HILLS SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORE - SOUTH GORE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SOUTH GORE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORE - MATAURA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MATAURA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MATAURA - EDENDALE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
EDENDALE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
EDENDALE - GLENHAM	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GLENHAM SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERTON - CROWE ROAD TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERTON SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CROWE ROAD TIE - INVERCARGILL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (R)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA - UNDERWOOD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA - NORTH MAKAREWA (N)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA - NORTH MAKAREWA (S)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WAIKIWI - WESTPLAINS TEE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CROWE ROAD TIE - WESTPLAINS TEE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WESTPLAINS TEE - OTATARA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WESTPLAINS TEE - OTATARA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTATARA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - WAIKIWI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WAIKIWI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - SEAWARDBUSH (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARD BUSH SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - SEAWARDBUSH TEE (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - SEAWARDBUSH TEE (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - SEAWARDBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - AWARUA FORK (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - AWARUA FORK (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA FORK - AWARUA SUB (1C)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA FORK - AWARUA SUB (2C)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA - BLUFF	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA - STANLEY	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
STANLEY - BLUFF	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
BLUFF SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - GORGE ROAD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORGE ROAD SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORGE ROAD - TOKANUI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOKANUI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL PER SUBSTATION</b>	<b>\$52,581</b>	<b>\$14,955</b>	<b>\$46,143</b>	<b>\$14,955</b>	<b>\$58,479</b>	<b>\$14,496</b>	<b>\$30,599</b>	<b>\$22,151</b>

TABLE 9 (contd)

TPC SUBTRANS COST PER SUBSTATION								
TPC Asset	CENTRE BUSH		LUMSDEN		DIPTON		MOSSBURN	
	SU	BU	SU	BU	SU	BU	SU	BU
TE ANAU - HILLSIDE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TE ANAU SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MANAPOURI - HILLSIDE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MANAPOURI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HILLSIDE - HEDDONBUSH	\$0	\$1,149	\$0	\$1,149	\$0	\$1,149	\$0	\$1,149
HILLSIDE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WINTON - HEDDONBUSH (N)	\$0	\$367	\$0	\$367	\$0	\$367	\$0	\$367
WINTON - HEDDONBUSH (S)	\$4,557	\$0	\$4,557	\$0	\$4,557	\$0	\$4,557	\$0
HEDDON BUSH SUB	\$4,318	\$0	\$4,318	\$0	\$4,318	\$0	\$4,318	\$0
WINTON SUB	\$1,137	\$0	\$1,137	\$0	\$1,137	\$0	\$1,137	\$0
HILLSIDE - MONAWAI	\$0	\$2,007	\$0	\$2,007	\$0	\$2,007	\$0	\$2,007
MONAWAI - OHAI	\$0	\$270	\$0	\$270	\$0	\$270	\$0	\$270
OHAI SUB	\$0	\$467	\$0	\$467	\$0	\$467	\$0	\$467
MONOWAI SUB	\$0	\$244	\$0	\$244	\$0	\$244	\$0	\$244
OHAI - ORAWIA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ORAWIA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OHAI - HEDDONBUSH	\$0	\$229	\$0	\$229	\$0	\$229	\$0	\$229
HEDDONBUSH - OTAUTAU	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTAUTAU SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HEDDONBUSH - CENTREBUSH	\$1,823	\$0	\$1,823	\$0	\$1,823	\$0	\$1,823	\$0
CENTREBUSH SUB	\$10,946	\$0	\$586	\$0	\$586	\$0	\$586	\$0
CENTREBUSH - DIPTON	\$0	\$138	\$3,840	\$0	\$3,840	\$0	\$3,840	\$0
DIPTON SUB	\$0	\$65	\$723	\$0	\$8,707	\$0	\$723	\$0
DIPTON - LUMSDEN	\$0	\$143	\$6,104	\$0	\$143	\$143	\$6,104	\$0
LUMSDEN SUB	\$0	\$187	\$20,399	\$0	\$187	\$187	\$2,017	\$0
LUMSDEN - MOSSBURN	\$0	\$0	\$0	\$0	\$0	\$0	\$17,521	\$0
MOSSBURN SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$13,149	\$0
LUMSDEN - RIVERSDALE TEE	\$0	\$671	\$0	\$671	\$0	\$732	\$0	\$671
RIVERSDALE TEE - RIVERSDALE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERSDALE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERSDALE TEE - GORE TIE	\$0	\$169	\$0	\$169	\$0	\$169	\$0	\$169
GORE TIE - GORE (R)	\$0	\$10	\$0	\$10	\$0	\$10	\$0	\$10
GORE TIE - GORE (K)	\$0	\$13	\$0	\$13	\$0	\$13	\$0	\$13
GORE - NORTH GORE (2)	\$0	\$47	\$0	\$47	\$0	\$47	\$0	\$47
NORTH GORE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE - NORTH GORE TIE	\$0	\$15	\$0	\$15	\$0	\$15	\$0	\$15
NORTH GORE TIE - GORE TIE	\$0	\$19	\$0	\$19	\$0	\$19	\$0	\$19
NORTH GORE TIE - KELSO	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
KELSO SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
KELSO - CONICAL HILLS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SOUTH GORE - CONICAL HILLS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONICAL HILLS SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORE - SOUTH GORE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SOUTH GORE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORE - MATAURA	\$0	\$45	\$0	\$45	\$0	\$45	\$0	\$45
MATAURA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MATAURA - EDENDALE	\$0	\$362	\$0	\$362	\$0	\$362	\$0	\$362
EDENDALE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
EDENDALE - GLENHAM	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GLENHAM SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERTON - CROWE ROAD TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERTON SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CROWE ROAD TIE - INVERCARGILL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (R)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA - UNDERWOOD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA - NORTH MAKAREWA (N)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA - NORTH MAKAREWA (S)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WAIKIWI - WESTPLAINS TEE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CROWE ROAD TIE - WESTPLAINS TEE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WESTPLAINS TEE - OTATARA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WESTPLAINS TEE - OTATARA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTATARA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - WAIKIWI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WAIKIWI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - SEAWARDBUSH (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARD BUSH SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - SEAWARDBUSH TEE (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - SEAWARDBUSH TEE (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - SEAWARDBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - AWARUA FORK (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - AWARUA FORK (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA FORK - AWARUA SUB (1C)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA FORK - AWARUA SUB (2C)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA - BLUFF	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA - STANLEY	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
STANLEY - BLUFF	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
BLUFF SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - GORGE ROAD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORGE ROAD SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORGE ROAD - TOKANUI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOKANUI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL PER SUBSTATION</b>	<b>\$22,781</b>	<b>\$6,813</b>	<b>\$43,487</b>	<b>\$6,080</b>	<b>\$24,968</b>	<b>\$6,471</b>	<b>\$55,775</b>	<b>\$6,080</b>

TABLE 9 (contd)

TPC SUBTRANS COST PER SUBSTATION								
TPC Asset	RIVERSDALE SU	RIVERSDALE BU	KELSO SU	KELSO BU	CONICAL HILL SU	CONICAL HILL BU	NORTH GORE SU	NORTH GORE BU
TE ANAU - HILLSIDE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TE ANAU SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MANAPOURI - HILLSIDE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MANAPOURI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HILLSIDE - HEDDONBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HILLSIDE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WINTON - HEDDONBUSH (N)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WINTON - HEDDONBUSH (S)	\$0	\$206	\$0	\$120	\$0	\$94	\$0	\$404
HEDDON BUSH SUB	\$0	\$371	\$0	\$426	\$0	\$334	\$0	\$1,431
WINTON SUB	\$0	\$157	\$0	\$179	\$0	\$140	\$0	\$599
HILLSIDE - MONAWAI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MONAWAI - OHAI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OHAI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MONOWAI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OHAI - ORAWIA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ORAWIA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OHAI - HEDDONBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$189
HEDDONBUSH - OTAUTAU	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTAUTAU SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HEDDONBUSH - CENTREBUSH	\$0	\$179	\$0	\$206	\$0	\$161	\$0	\$692
CENTREBUSH SUB	\$0	\$227	\$0	\$261	\$0	\$205	\$0	\$874
CENTREBUSH - DIPTON	\$0	\$277	\$0	\$326	\$0	\$255	\$0	\$1,060
DIPTON SUB	\$0	\$129	\$0	\$149	\$0	\$117	\$0	\$499
DIPTON - LUMSDEN	\$0	\$284	\$0	\$328	\$0	\$256	\$0	\$1,095
LUMSDEN SUB	\$0	\$376	\$0	\$431	\$0	\$338	\$0	\$1,445
LUMSDEN - MOSSBURN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MOSSBURN SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
LUMSDEN - RIVERSDALE TEE	\$0	\$1,344	\$0	\$1,545	\$0	\$1,209	\$0	\$5,173
RIVERSDALE TEE - RIVERSDALE	\$3,279	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERSDALE SUB	\$20,080	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERSDALE TEE - GORE TIE	\$19,563	\$0	\$0	\$386	\$0	\$303	\$0	\$1,294
GORE TIE - GORE (R)	\$1,614	\$0	\$0	\$23	\$0	\$18	\$0	\$75
GORE TIE - GORE (K)	\$0	\$27	\$905	\$0	\$709	\$0	\$0	\$104
GORE - NORTH GORE (2)	\$0	\$96	\$0	\$110	\$0	\$86	\$3,353	\$110
NORTH GORE SUB	\$0	\$2,035	\$0	\$2,035	\$0	\$2,035	\$32,554	\$0
NORTH GORE - NORTH GORE TIE	\$0	\$30	\$0	\$35	\$0	\$27	\$0	\$233
NORTH GORE TIE - GORE TIE	\$0	\$20	\$798	\$0	\$624	\$0	\$0	\$78
NORTH GORE TIE - KELSO	\$0	\$0	\$10,172	\$0	\$7,960	\$0	\$0	\$504
KELSO SUB	\$0	\$0	\$17,770	\$0	\$2,221	\$0	\$0	\$1,111
KELSO - CONICAL HILLS	\$0	\$0	\$5,979	\$0	\$4,679	\$0	\$0	\$296
SOUTH GORE - CONICAL HILLS	\$0	\$0	\$9,716	\$0	\$7,603	\$0	\$0	\$481
CONICAL HILLS SUB	\$0	\$0	\$2,719	\$0	\$21,750	\$0	\$0	\$1,359
GORE - SOUTH GORE	\$0	\$0	\$228	\$0	\$228	\$0	\$0	\$0
SOUTH GORE SUB	\$0	\$0	\$1,750	\$0	\$3,501	\$0	\$0	\$1,750
GORE - MATAURA	\$0	\$95	\$0	\$72	\$0	\$86	\$0	\$367
MATAURA SUB	\$0	\$473	\$0	\$542	\$0	\$422	\$0	\$1,809
MATAURA - EDENDALE	\$0	\$747	\$0	\$859	\$0	\$672	\$0	\$2,876
EDENDALE SUB	\$0	\$894	\$0	\$1,028	\$0	\$803	\$0	\$3,433
EDENDALE - GLENHAM	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GLENHAM SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERTON - CROWE ROAD TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERTON SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CROWE ROAD TIE - INVERCARGILL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (R)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA - UNDERWOOD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UNDERWOOD SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA - NORTH MAKAREWA (N)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA - NORTH MAKAREWA (S)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WAIKIWI - WESTPLAINS TEE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CROWE ROAD TIE - WESTPLAINS TEE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WESTPLAINS TEE - OTATARA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WESTPLAINS TEE - OTATARA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTATARA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - WAIKIWI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WAIKIWI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - SEAWARDBUSH (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARD BUSH SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - SEAWARDBUSH TEE (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - SEAWARDBUSH TEE (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - SEAWARDBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - AWARUA FORK (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - AWARUA FORK (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA FORK - AWARUA SUB (1C)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA FORK - AWARUA SUB (2C)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA - BLUFF	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA - STANLEY	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
STANLEY - BLUFF	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
BLUFF SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - GORGE ROAD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORGE ROAD SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORGE ROAD - TOKANUI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOKANUI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL PER SUBSTATION</b>	<b>\$44,538</b>	<b>\$7,967</b>	<b>\$50,037</b>	<b>\$9,061</b>	<b>\$49,275</b>	<b>\$7,583</b>	<b>\$35,907</b>	<b>\$29,232</b>

TABLE 9 (contd)

TPC SUBTRANS COST PER SUBSTATION								
TPC Asset	SOUTH GORE		MATAURA		RIVERTON		MAKAREWA	
	SU	BU	SU	BU	SU	BU	SU	BU
TE ANAU - HILLSIDE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TE ANAU SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MANAPOURI - HILLSIDE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MANAPOURI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HILLSIDE - HEDDONBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HILLSIDE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WINTON - HEDDONBUSH (N)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WINTON - HEDDONBUSH (S)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HEDDON BUSH SUB	\$0	\$1,393	\$0	\$0	\$0	\$0	\$0	\$0
WINTON SUB	\$0	\$594	\$0	\$0	\$0	\$0	\$0	\$0
HILLSIDE - MONAWAI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MONAWAI - OHAI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OHAI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MONOWAI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OHAI - ORAWIA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ORAWIA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OHAI - HEDDONBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HEDDONBUSH - OTAUTAU	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTAUTAU SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HEDDONBUSH - CENTREBUSH	\$0	\$695	\$0	\$0	\$0	\$0	\$0	\$0
CENTREBUSH SUB	\$0	\$852	\$0	\$0	\$0	\$0	\$0	\$0
CENTREBUSH - DIPTON	\$0	\$1,065	\$0	\$0	\$0	\$0	\$0	\$0
DIPTON SUB	\$0	\$499	\$0	\$0	\$0	\$0	\$0	\$0
DIPTON - LUMSDEN	\$0	\$1,068	\$0	\$0	\$0	\$0	\$0	\$0
LUMSDEN SUB	\$0	\$1,408	\$0	\$0	\$0	\$0	\$0	\$0
LUMSDEN - MOSSBURN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MOSSBURN SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
LUMSDEN - RIVERSDALE TEE	\$0	\$5,039	\$0	\$0	\$0	\$0	\$0	\$0
RIVERSDALE TEE - RIVERSDALE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERSDALE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERSDALE TEE - GORE TIE	\$0	\$1,259	\$0	\$0	\$0	\$0	\$0	\$0
GORE TIE - GORE (R)	\$0	\$73	\$0	\$0	\$0	\$0	\$0	\$0
GORE TIE - GORE (K)	\$0	\$102	\$0	\$0	\$0	\$0	\$0	\$0
GORE - NORTH GORE (2)	\$0	\$360	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE SUB	\$0	\$2,035	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE - NORTH GORE TIE	\$0	\$113	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE TIE - GORE TIE	\$0	\$76	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE TIE - KELSO	\$0	\$1,511	\$0	\$0	\$0	\$0	\$0	\$0
KELSO SUB	\$0	\$1,111	\$0	\$0	\$0	\$0	\$0	\$0
KELSO - CONICAL HILLS	\$0	\$888	\$0	\$0	\$0	\$0	\$0	\$0
SOUTH GORE - CONICAL HILLS	\$0	\$1,443	\$0	\$0	\$0	\$0	\$0	\$0
CONICAL HILLS SUB	\$0	\$1,359	\$0	\$0	\$0	\$0	\$0	\$0
GORE - SOUTH GORE	\$1,826	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SOUTH GORE SUB	\$28,005	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORE - MATAURA	\$0	\$358	\$5,741	\$0	\$0	\$0	\$0	\$0
MATAURA SUB	\$0	\$1,766	\$30,990	\$0	\$0	\$0	\$0	\$0
MATAURA - EDENDALE	\$0	\$2,800	\$0	\$4,732	\$0	\$0	\$0	\$0
EDENDALE SUB	\$0	\$3,256	\$0	\$2,962	\$0	\$0	\$0	\$0
EDENDALE - GLENHAM	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GLENHAM SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERTON - CROWE ROAD TIE	\$0	\$0	\$0	\$0	\$16,676	\$0	\$0	\$0
RIVERTON SUB	\$0	\$0	\$0	\$0	\$24,167	\$0	\$0	\$0
CROWE ROAD TIE - INVERCARGILL	\$0	\$0	\$0	\$0	\$9,869	\$0	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$658
UNDERWOOD - CROWE ROAD TIE (E)	\$0	\$0	\$0	\$0	\$1,201	\$0	\$0	\$132
UNDERWOOD - CROWE ROAD TIE (R)	\$0	\$0	\$0	\$0	\$881	\$0	\$0	\$0
MAKAREWA - UNDERWOOD	\$0	\$0	\$0	\$0	\$0	\$95	\$0	\$476
UNDERWOOD SUB	\$0	\$0	\$0	\$0	\$0	\$1,226	\$0	\$6,130
MAKAREWA - NORTH MAKAREWA (N)	\$0	\$0	\$0	\$0	\$0	\$0	\$4,981	\$0
MAKAREWA SUB	\$0	\$0	\$0	\$0	\$0	\$475	\$38,542	\$0
MAKAREWA - NORTH MAKAREWA (S)	\$0	\$0	\$0	\$0	\$0	\$69	\$0	\$346
WAIKIWI - WESTPLAINS TEE	\$0	\$0	\$0	\$0	\$0	\$134	\$0	\$334
CROWE ROAD TIE - WESTPLAINS TEE	\$0	\$0	\$0	\$0	\$0	\$100	\$0	\$523
WESTPLAINS TEE - OTATARA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WESTPLAINS TEE - OTATARA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTATARA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - WAIKIWI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$421
WAIKIWI SUB	\$0	\$0	\$0	\$0	\$0	\$974	\$0	\$2,190
INVERCARGILL - SEAWARDBUSH (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARD BUSH SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - SEAWARDBUSH TEE (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - SEAWARDBUSH TEE (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - SEAWARDBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - AWARUA FORK (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - AWARUA FORK (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA FORK - AWARUA SUB (1C)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA FORK - AWARUA SUB (2C)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA - BLUFF	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA - STANLEY	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
STANLEY - BLUFF	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
BLUFF SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - GORGE ROAD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORGE ROAD SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORGE ROAD - TOKANUI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOKANUI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL PER SUBSTATION</b>	<b>\$29,831</b>	<b>\$31,120</b>	<b>\$36,731</b>	<b>\$7,695</b>	<b>\$52,793</b>	<b>\$3,073</b>	<b>\$43,523</b>	<b>\$11,210</b>

TABLE 9 (contd)

TPC SUBTRANS COST PER SUBSTATION								
TPC Asset	UNDERWOOD SU	UNDERWOOD BU	WAIKIWI SU	WAIKIWI BU	OTATARA SU	OTATARA BU	SEAWARD BUSH SU	SEAWARD BUSH BU
TE ANAU - HILLSIDE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TE ANAU SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MANAPOURI - HILLSIDE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MANAPOURI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HILLSIDE - HEDDONBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HILLSIDE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WINTON - HEDDONBUSH (N)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WINTON - HEDDONBUSH (S)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HEDDON BUSH SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WINTON SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HILLSIDE - MONAWAI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MONAWAI - OHAI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OHAI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MONOWAI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OHAI - ORAWIA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ORAWIA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OHAI - HEDDONBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HEDDONBUSH - OTAUTAU	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTAUTAU SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HEDDONBUSH - CENTREBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CENTREBUSH SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CENTREBUSH - DIPTON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
DIPTON SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
DIPTON - LUMSDEN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
LUMSDEN SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
LUMSDEN - MOSSBURN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MOSSBURN SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
LUMSDEN - RIVERSDALE TEE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERSDALE TEE - RIVERSDALE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERSDALE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERSDALE TEE - GORE TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORE TIE - GORE (R)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORE TIE - GORE (K)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORE - NORTH GORE (2)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE - NORTH GORE TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE TIE - GORE TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NORTH GORE TIE - KELSO	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
KELSO SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
KELSO - CONICAL HILLS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SOUTH GORE - CONICAL HILLS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONICAL HILLS SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORE - SOUTH GORE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SOUTH GORE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORE - MATAURA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MATAURA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MATAURA - EDENDALE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
EDENDALE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
EDENDALE - GLENHAM	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GLENHAM SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERTON - CROWE ROAD TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIVERTON SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CROWE ROAD TIE - INVERCARGILL	\$0	\$1,369	\$0	\$823	\$0	\$274	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (W)	\$0	\$592	\$0	\$188	\$0	\$63	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (E)	\$0	\$118	\$0	\$38	\$0	\$12	\$0	\$0
UNDERWOOD - CROWE ROAD TIE (R)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA - UNDERWOOD	\$3,044	\$0	\$0	\$143	\$0	\$48	\$0	\$0
UNDERWOOD SUB	\$39,235	\$0	\$0	\$1,839	\$0	\$613	\$0	\$0
MAKAREWA - NORTH MAKAREWA (N)	\$0	\$553	\$0	\$0	\$0	\$0	\$0	\$0
MAKAREWA SUB	\$0	\$2,856	\$0	\$715	\$0	\$240	\$0	\$0
MAKAREWA - NORTH MAKAREWA (S)	\$4,981	\$0	\$0	\$104	\$0	\$35	\$0	\$0
WAIKIWI - WESTPLAINS TEE	\$0	\$669	\$0	\$0	\$2,652	\$0	\$0	\$0
CROWE ROAD TIE - WESTPLAINS TEE	\$0	\$470	\$0	\$150	\$0	\$105	\$0	\$0
WESTPLAINS TEE - OTATARA	\$0	\$0	\$0	\$0	\$3,619	\$0	\$0	\$0
WESTPLAINS TEE - OTATARA	\$0	\$0	\$0	\$0	\$3,605	\$0	\$0	\$0
OTATARA SUB	\$0	\$0	\$0	\$0	\$16,881	\$0	\$0	\$0
INVERCARGILL - WAIKIWI	\$0	\$378	\$2,397	\$0	\$799	\$0	\$0	\$0
WAIKIWI SUB	\$0	\$2,433	\$29,853	\$0	\$1,866	\$0	\$0	\$0
INVERCARGILL - SEAWARDBUSH (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$6,754	\$0
SEAWARD BUSH SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$38,658	\$0
INVERCARGILL - SEAWARDBUSH TEE (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,575
INVERCARGILL - SEAWARDBUSH TEE (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,313
SEAWARDBUSH TEE - SEAWARDBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,462
SEAWARDBUSH TEE - AWARUA FORK (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEAWARDBUSH TEE - AWARUA FORK (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA FORK - AWARUA SUB (1C)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA FORK - AWARUA SUB (2C)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA - BLUFF	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AWARUA - STANLEY	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
STANLEY - BLUFF	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
BLUFF SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INVERCARGILL - GORGE ROAD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORGE ROAD SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GORGE ROAD - TOKANUI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOKANUI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL PER SUBSTATION	\$47,280	\$9,441	\$32,250	\$3,999	\$29,422	\$1,388	\$45,412	\$4,351

TABLE 9 (contd)

TPC SUBTRANS COST PER SUBSTATION											
TPC Asset	AWARUA SU	AWARUA BU	BLUFF SU	BLUFF BU	EDENDALE SU	EDENDALE BU	GLENHAM SU	GLENHAM BU	GORGE RD SU	TOKANUI SU	
TE ANAU - HILLSIDE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
TE ANAU SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
MANAPOURI - HILLSIDE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
MANAPOURI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
HILLSIDE - HEDDONBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
HILLSIDE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
WINTON - HEDDONBUSH (N)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
WINTON - HEDDONBUSH (S)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
HEDDON BUSH SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
WINTON SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
HILLSIDE - MONAWAI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
MONAWAI - OHAI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
OHAI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
MONOWAI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
OHAI - ORAWIA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
ORAWIA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
OHAI - HEDDONBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
HEDDONBUSH - OTAUTAU	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
OTAUTAU SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
HEDDONBUSH - CENTREBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
CENTREBUSH SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
CENTREBUSH - DIPTON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
DIPTON SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
DIPTON - LUMSDEN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
LUMSDEN SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
LUMSDEN - MOSSBURN	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
MOSSBURN SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
LUMSDEN - RIVERSDALE TEE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
RIVERSDALE TEE - RIVERSDALE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
RIVERSDALE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
RIVERSDALE TEE - GORE TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
GORE TIE - GORE (R)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
GORE TIE - GORE (K)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
GORE - NORTH GORE (2)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
NORTH GORE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
NORTH GORE - NORTH GORE TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
NORTH GORE TIE - GORE TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
NORTH GORE TIE - KELSO	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
KELSO SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
KELSO - CONICAL HILLS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
SOUTH GORE - CONICAL HILLS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
CONICAL HILLS SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
GORE - SOUTH GORE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
SOUTH GORE SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
GORE - MATAURA	\$0	\$0	\$0	\$0	\$0	\$191	\$0	\$48	\$0	\$0	
MATAURA SUB	\$0	\$0	\$0	\$0	\$0	\$2,189	\$0	\$546	\$0	\$0	
MATAURA - EDENDALE	\$0	\$0	\$0	\$0	\$0	\$3,154	\$0	\$788	\$0	\$0	
EDENDALE SUB	\$0	\$0	\$0	\$0	\$30,226	\$0	\$492	\$0	\$0	\$0	
EDENDALE - GLENHAM	\$0	\$0	\$0	\$0	\$0	\$0	\$8,386	\$0	\$0	\$0	
GLENHAM SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$13,149	\$0	\$0	\$0	
RIVERTON - CROWE ROAD TIE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
RIVERTON SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
CROWE ROAD TIE - INVERCARGILL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
UNDERWOOD - CROWE ROAD TIE (W)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
UNDERWOOD - CROWE ROAD TIE (E)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
UNDERWOOD - CROWE ROAD TIE (R)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
MAKAREWA - UNDERWOOD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
UNDERWOOD SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
MAKAREWA - NORTH MAKAREWA (N)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
MAKAREWA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
MAKAREWA - NORTH MAKAREWA (S)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
WAIKIWI - WESTPLAINS TEE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
CROWE ROAD TIE - WESTPLAINS TEE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
WESTPLAINS TEE - OTATARA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
WESTPLAINS TEE - OTATARA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
OTATARA SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
INVERCARGILL - WAIKIWI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
WAIKIWI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
INVERCARGILL - SEAWARDBUSH (W)	\$0	\$102	\$0	\$254	\$0	\$0	\$0	\$0	\$0	\$0	
SEAWARD BUSH SUB	\$0	\$582	\$0	\$1,453	\$0	\$0	\$0	\$0	\$0	\$0	
INVERCARGILL - SEAWARDBUSH TEE (E)	\$3,600	\$0	\$2,700	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
INVERCARGILL - SEAWARDBUSH TEE (W)	\$0	\$262	\$6,301	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
SEAWARDBUSH TEE - SEAWARDBUSH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
SEAWARDBUSH TEE - AWARUA FORK (E)	\$3,047	\$0	\$2,285	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
SEAWARDBUSH TEE - AWARUA FORK (W)	\$0	\$533	\$4,799	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
AWARUA FORK - AWARUA SUB (1C)	\$489	\$0	\$352	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
AWARUA SUB	\$16,703	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
AWARUA FORK - AWARUA SUB (2C)	\$0	\$129	\$1,161	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
AWARUA - BLUFF	\$0	\$0	\$11,774	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
AWARUA - STANLEY	\$0	\$0	\$10,119	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
STANLEY - BLUFF	\$0	\$0	\$3,978	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
BLUFF SUB	\$0	\$0	\$39,626	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
INVERCARGILL - GORGE ROAD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,713	\$10,523	
GORGE ROAD SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,915	\$890	
GORGE ROAD - TOKANUI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,455	
TOKANUI SUB	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,459	
<b>TOTAL PER SUBSTATION</b>	<b>\$25,820</b>	<b>\$1,808</b>	<b>\$85,085</b>	<b>\$1,707</b>	<b>\$30,226</b>	<b>\$5,534</b>	<b>\$22,028</b>	<b>\$1,382</b>	<b>\$26,628</b>	<b>\$41,327</b>	

TABLE 10

ZONE SUBSTATION ELECTRICAL PARAMETERS							
SUBSTATION	DEMAND kVA	TOTAL kWh	WINTER PEAK kWh	WINTER DAY kWh	SUMMER DAY kWh	DOMESTIC kWh	COMMERCIAL kWh
Awarua	2,286	567,000	133,685	206,103	199,530	0	567,000
Bluff	4,100	16,132,000	3,803,529	5,863,945	5,676,940	818,000	53,655,000
Centre Bush	1,600	4,413,000	873,227	1,338,700	1,946,826	3,664,000	749,000
Conical Hills	1,500	5,215,000	1,087,675	1,689,271	2,164,988	2,034,000	3,182,000
Dipton	686	2,305,000	456,104	699,231	1,016,867	1,790,000	515,000
EIL	57,300	220,000,000	51,870,597	79,969,497	77,419,222	110,000,000	110,000,000
Edendale	6,000	26,183,000	4,588,432	7,052,338	12,142,936	9,678,000	13,505,000
Glenham	1,300	3,186,000	558,330	858,143	1,477,577	2,439,000	747,000
Gorge Road	1,030	3,357,000	791,498	1,220,262	1,181,347	2,501,000	856,000
Hillside	435	1,301,000	257,437	394,663	573,945	948,000	353,000
Kelso	3,040	13,677,000	2,852,567	4,430,328	5,677,957	9,808,000	3,870,000
Lumsden	1,840	7,880,000	1,559,263	2,390,428	3,476,317	5,572,000	2,309,000
Makarewa	6,000	22,171,000	3,735,231	5,906,870	10,220,171	6,191,000	16,981,000
Manapouri	800	2,680,000	530,308	812,988	1,182,301	1,793,000	886,000
Mataura	9,000	22,378,000	4,667,305	7,248,804	9,290,145	7,508,000	15,869,000
Monowai	800	675,000	133,566	204,764	297,781	574,000	101,198,000
Mossburn	1,257	3,740,000	740,056	1,134,543	1,649,927	2,799,000	940,000
North Gore	8,100	28,467,000	5,937,268	9,221,186	11,817,972	18,819,000	11,549,000
Ohai	2,500	7,109,000	1,406,701	2,156,542	3,136,185	3,823,000	3,286,000
Orawia	2,160	8,819,000	1,745,068	2,675,277	3,890,563	5,478,000	3,842,000
Otatara	2,220	10,109,000	2,383,454	3,674,598	3,557,413	9,280,000	65,869,000
Otautau	2,500	8,113,000	1,605,368	2,461,110	3,579,106	6,055,000	2,537,000
Racecourse	1,800	8,379,883	1,975,771	3,046,068	2,948,927	6,284,912	2,094,971
Riversdale	2,500	9,993,000	2,084,207	3,236,987	4,148,558	7,415,000	2,578,000
Riverton	3,000	15,770,000	3,718,179	5,732,359	5,549,551	10,465,000	5,306,000
Seaward Bush	9,500	30,397,000	7,166,866	11,049,240	10,696,873	18,589,000	11,809,000
South Gore	7,000	24,950,000	5,203,739	8,081,940	10,357,902	16,447,000	9,503,000
Te Anau	3,980	18,324,000	3,625,880	5,558,655	8,083,760	7,934,000	10,389,000
Tokanui	840	3,435,000	809,889	1,248,615	1,208,796	2,855,000	578,000
Underwood	11,000	37,332,000	6,289,461	9,946,113	17,208,940	4,018,000	34,313,000
Waikiwi	9,000	38,099,000	8,982,808	13,848,899	13,407,250	27,993,000	10,106,000
Winton	6,240	29,367,000	5,811,025	8,908,592	12,955,456	19,982,000	9,386,000

TABLE 11

ZONE SUBSTATION COSTS			
SUBSTATION	SUPPLY COSTS	BACK_UP COSTS	MAINT'ANCE COSTS
Awarua	\$23,820	\$1,608	\$21,010
Bluff	\$83,095	\$1,707	\$48,183
Centre Bush	\$22,781	\$6,613	\$22,241
Conical Hills	\$49,275	\$7,563	\$39,504
Dipton	\$24,968	\$6,471	\$20,689
EIL	\$532,443	\$93,961	\$100,280
Edendale	\$30,226	\$5,534	\$35,149
Glenham	\$22,028	\$1,382	\$20,384
Gorge Road	\$26,628	\$0	\$19,196
Hillside	\$44,286	\$2,288	\$36,319
Kelso	\$50,037	\$9,061	\$40,206
Lumsden	\$43,487	\$6,080	\$37,248
Makarewa	\$43,523	\$11,210	\$38,851
Manapouri	\$49,580	\$3,265	\$31,705
Mataura	\$36,731	\$7,695	\$33,465
Monowai	\$22,141	\$5,164	\$32,525
Mossburn	\$55,775	\$6,080	\$32,316
North Gore	\$35,907	\$29,232	\$42,080
Ohai	\$46,143	\$14,955	\$47,385
Orawia	\$52,581	\$14,955	\$42,824
Otatara	\$29,422	\$1,388	\$22,681
Otautau	\$58,479	\$14,496	\$22,648
Racecourse Rd.	\$0	\$0	\$0
Riversdale	\$44,536	\$7,967	\$31,599
Riverton	\$52,793	\$3,073	\$41,389
Seaward Bush	\$45,412	\$4,351	\$37,308
South Gore	\$29,831	\$31,120	\$40,781
Te Anau	\$110,638	\$13,657	\$60,440
Tokenui	\$41,327	\$0	\$25,945
Underwood	\$47,260	\$9,441	\$43,834
Waikiwi	\$32,250	\$3,999	\$33,114
Winton	\$30,599	\$22,151	\$38,235

TABLE 12

ZONE SUBSTATION COSTS						
SUBSTATION	SUPPLY COSTS			BACKUP COSTS		MTCE COSTS
	per kVA	per Peak kWh	per Winter kWh	per Domestic kWh	per Commercial kWh	per Total kWh
Awarua	\$7.2940	\$0.0356	\$0.0329	\$0.0007	\$0.0028	\$0.0371
Bluff	\$14.1870	\$0.0044	\$0.0040	\$0.0000	\$0.0000	\$0.0030
Centre Bush	\$9.9666	\$0.0052	\$0.0049	\$0.0010	\$0.0040	\$0.0050
Conical Hills	\$22.9951	\$0.0091	\$0.0082	\$0.0005	\$0.0020	\$0.0076
Dipton	\$25.4779	\$0.0109	\$0.0103	\$0.0017	\$0.0067	\$0.0090
EIL	\$6.3064	\$0.0020	\$0.0018	\$0.0002	\$0.0007	\$0.0004
Edendale	\$3.5264	\$0.0013	\$0.0012	\$0.0001	\$0.0003	\$0.0013
Glenham	\$11.8610	\$0.0079	\$0.0073	\$0.0003	\$0.0010	\$0.0064
Gorge Road	\$18.0967	\$0.0067	\$0.0062	\$0.0000	\$0.0000	\$0.0057
Hillside	\$71.2653	\$0.0344	\$0.0323	\$0.0010	\$0.0039	\$0.0279
Kelso	\$11.5218	\$0.0035	\$0.0032	\$0.0004	\$0.0014	\$0.0029
Lumsden	\$16.5440	\$0.0056	\$0.0052	\$0.0004	\$0.0016	\$0.0047
Makarawa	\$5.0777	\$0.0023	\$0.0020	\$0.0002	\$0.0006	\$0.0018
Manapouri	\$43.3822	\$0.0187	\$0.0175	\$0.0006	\$0.0024	\$0.0118
Mataura	\$2.8569	\$0.0016	\$0.0014	\$0.0001	\$0.0004	\$0.0015
Monowai	\$19.3732	\$0.0332	\$0.0311	\$0.0000	\$0.0001	\$0.0482
Mossburn	\$31.0600	\$0.0151	\$0.0141	\$0.0009	\$0.0037	\$0.0086
North Gore	\$3.1031	\$0.0012	\$0.0011	\$0.0004	\$0.0018	\$0.0015
Ohai	\$12.9200	\$0.0066	\$0.0062	\$0.0009	\$0.0035	\$0.0067
Orawia	\$17.0403	\$0.0060	\$0.0057	\$0.0007	\$0.0029	\$0.0049
Otatara	\$9.2772	\$0.0025	\$0.0023	\$0.0000	\$0.0000	\$0.0022
Otautau	\$16.3741	\$0.0073	\$0.0068	\$0.0009	\$0.0036	\$0.0028
Racecourse Rd	\$6.3064	\$0.0020	\$0.0018	\$0.0002	\$0.0007	\$0.0004
Riversdale	\$12.4700	\$0.0043	\$0.0039	\$0.0004	\$0.0018	\$0.0032
Riverton	\$12.3184	\$0.0028	\$0.0026	\$0.0001	\$0.0004	\$0.0026
Seaward Bush	\$3.3461	\$0.0013	\$0.0012	\$0.0001	\$0.0003	\$0.0012
South Gore	\$2.9831	\$0.0011	\$0.0010	\$0.0006	\$0.0023	\$0.0016
Te Anau	\$19.4590	\$0.0061	\$0.0057	\$0.0003	\$0.0011	\$0.0033
Tokanui	\$34.4395	\$0.0102	\$0.0094	\$0.0000	\$0.0000	\$0.0076
Underwood	\$3.0074	\$0.0015	\$0.0013	\$0.0001	\$0.0003	\$0.0012
Waikwi	\$2.5083	\$0.0007	\$0.0007	\$0.0001	\$0.0002	\$0.0009
Winton	\$3.4326	\$0.0011	\$0.0010	\$0.0004	\$0.0015	\$0.0013

TABLE 13

DISTRIBUTION ELECTRICAL PARAMETERS										
SUBSTATION & FEEDER		TOTAL KVA	No of Tx's	LINE LGTH	CABLE LGTH	TOTAL Custs	TOTAL kWh	WINTER PEAK kWh	WINTER DAY kWh	SUMMER DAY kWh
Awarua 1	R	5,000	1	0.50		1	567,000	133,685	206,103	199,530
Bluff 3	R	3,000	54	25.00		163	1,132,000	266,898	411,479	398,357
Bluff 4	E	5,030	18	6.03		500	8,000,000	1,886,204	2,907,982	2,815,244
Bluff 5	E	4,120	22	9.04	0.92	500	7,000,000	1,650,428	2,544,484	2,463,339
Centre Bush 1	R	2,398	149	95.00		312	2,233,283	441,913	677,475	985,228
Centre Bush 1	I	100	6	7.00		10	78,717	15,576	23,879	34,727
Centre Bush 2	R	1,968	130	82.00		231	2,101,000	415,737	637,346	926,871
Conical Hills 1	R	1,015	51	45.00		110	802,000	167,270	259,788	332,947
Conical Hills 2	R	553	47	52.00		77	582,000	121,386	188,525	241,615
Conical Hills 5	R	2,000	0	2.00		1	2,775,000	578,773	898,893	1,152,031
Conical Hills 6	R	1,401	78	67.00		158	1,056,000	220,246	342,065	438,395
Dipton 1	R	1,350	74	60.00		138	1,092,000	216,081	331,262	481,743
Dipton 2	R	1,221	87	67.00		195	1,213,000	240,024	367,968	535,123
EIL	E	360000	372	70	300	15350	220,000,000	51,870,597	79,969,497	77,419,222
Edendale 1	R	1,905	92	85.00		313	3,229,000	565,865	869,725	1,497,519
Edendale 2	R	885	31	50.00		206	1,751,000	306,853	471,628	812,064
Edendale 3	R	3,850	126	50.00		619	4,000,000	700,979	1,077,392	1,855,087
Edendale 4	R	1,725	83	82.00		203	7,003,000	1,227,239	1,886,244	3,247,794
Edendale 5	R	2,405	97	25.00		226	4,900,000	858,699	1,319,805	2,272,482
Edendale 6	R	4,500	0	0.50		0	5,300,000	928,797	1,427,544	2,457,990
Glenham 1	R	1,805	119	90.00		255	1,846,000	323,502	497,216	856,123
Glenham 2	R	1,478	112	100.00		198	1,340,000	234,828	360,926	621,454
Gorge Road 1	R	910	68	47.00		148	819,000	193,100	297,705	288,211
Gorge Road 2	R	2,628	155	127.00		349	2,538,000	598,398	922,557	893,136
Hillside 1	R	266	23	22.00		46	305,000	60,352	92,523	134,553
Hillside 2	R	664	53	32.00		109	651,000	128,817	197,483	287,193
Hillside 2	I	495	36	42.00		69	345,000	68,267	104,657	152,199
Kelso 1	R	3,359	189	150.00		429	3,571,000	744,792	1,156,738	1,482,488
Kelso 1	I	150	11	30.00		25	150,000	31,285	48,589	62,272
Kelso 2	R	5,665	144	100.00		725	6,429,000	1,340,875	2,082,517	2,668,976
Kelso 3	R	2,305	143	117.00		320	2,333,889	486,771	756,006	968,906
Kelso 3	I	93	9	12.00		10	84,111	17,543	27,246	34,918
Kelso 4	R	1,205	76	62.00		136	1,109,000	231,300	359,233	460,397
Lumsden 1	R	1,745	117	85.00		215	1,549,000	306,510	469,895	683,352
Lumsden 2	R	1,226	79	65.00		154	1,131,000	223,798	343,093	498,948
Lumsden 5	R	1,570	19	7.00		294	2,908,000	575,423	882,153	1,282,884
Lumsden 6	R	2,304	123	120.00		435	2,190,000	433,348	664,345	966,134
Lumsden 6	I	110	9	10.00		17	102,000	20,183	30,942	44,998
Makarewa 3	R	2,030	100	55.00		263	3,221,000	542,654	858,149	1,484,785
Makarewa 4	R	4,000	0	0.50		1	11,024,000	1,857,254	2,937,050	5,081,736
Makarewa 5	R	3,075	139	50.00		330	2,916,000	491,269	776,890	1,344,189
Makarewa 6	R	3,290	97	48.00		414	5,010,000	844,053	1,334,780	2,309,461
Manapouri 1	R	1,660	39	27.00		239	1,767,000	349,647	536,026	779,524
Manapouri 2	R	918	58	52.00		108	751,000	148,605	227,819	331,309
Manapouri 2	I	250	19	25.00		38	162,000	32,056	49,143	71,467
Mataura 3	U	3,195	27	6.00		557	2,927,000	610,475	948,130	1,215,133
Mataura 3	R	3,500	132	127.00		296	1,696,000	353,729	549,378	704,088
Mataura 4	U	7,174	0	1.30	0.17	2	14,120,000	2,944,961	4,573,828	5,861,866
Mataura 5	U	1,650	16	4.00	0.50	301	2,143,000	446,958	694,172	889,659
Mataura 5	R	1,706	112	103.00		233	1,492,000	311,181	483,297	619,398
Monowai 1	R	653	39	37.00		81	518,000	102,500	157,137	228,519
Monowai 2	R	305	7	7.00		24	157,000	31,067	47,627	69,262
Mossburn 1	R	1,081	88	90.00		167	1,148,000	227,162	348,250	506,448
Mossburn 1	I	258	23	25.00		42	190,000	37,596	57,637	83,820
Mossburn 2	R	2,826	82	67.00		295	2,402,000	475,298	728,656	1,059,659
North Gore 2	R	2,900	194	112.00		384	2,123,000	442,787	687,694	881,356
North Gore 3	U	4,095	38	11.00	3.00	823	6,011,000	1,253,694	1,947,116	2,495,445
North Gore 4	R	4,950	224	100.00		498	5,148,000	1,073,701	1,667,568	2,137,173
North Gore 5	U	9,165	44	11.00	4.00	1,252	15,185,000	3,167,085	4,918,808	6,303,998

TABLE 14

DISTRIBUTION ELECTRICAL PARAMETERS										
SUBSTATION & FEEDER		TOTAL KVA	No of Tx's	LINE LGTH	CABLE LGTH	TOTAL Custs	TOTAL kWh	WINTER PEAK kWh	WINTER DAY kWh	SUMMER DAY kWh
Ohai 1	R	503	34	30.00		62	572,000	113,185	173,518	252,342
Ohai 2	R	3,518	112	62.00		689	3,447,000	682,079	1,045,661	1,520,668
Ohai 3	R	1,250	0	0.50		1	2,056,000	406,833	623,695	907,019
Ohai 4	R	1,226	86	72.00		161	1,034,000	204,604	313,668	456,156
Orawia 1	R	1,383	100	65.00		201	1,373,000	271,684	416,505	605,708
Orawia 1	I	160	11	12.00		22	113,000	22,360	34,279	49,851
Orawia 2	R	1,199	85	67.00		182	1,033,000	204,406	313,365	455,715
Orawia 3	R	5,383	156	92.00		683	6,192,000	1,225,248	1,878,367	2,731,644
Orawia 3	I	145	12	12.00		25	108,000	21,371	32,762	47,645
Otatara 1	R	3,370	106	45.00		469	4,107,000	968,330	1,492,885	1,445,276
Otatara 2	R	2,805	44	13.00		543	6,002,000	1,415,124	2,181,713	2,112,137
Otautau 1	R	1,116	72	47.00		169	1,333,000	263,769	404,371	588,062
Otautau 2	R	1,228	71	42.00		128	1,041,000	205,989	315,791	459,244
Otautau 3	R	3,115	55	25.00		507	4,387,000	868,082	1,330,813	1,935,355
Otautau 4	R	1,247	81	52.00		173	1,352,000	267,528	410,134	596,444
R'course Rd 46	R	4,000	20	27.00			8,379,883	1,975,771	3,046,068	2,948,927
Riversdale 1	R	1,424	101	75.00		173	1,597,000	333,081	517,309	662,989
Riversdale 2	R	2,619	140	87.00		329	2,762,000	576,061	894,682	1,146,634
Riversdale 3	R	3,424	157	95.00		513	3,321,000	692,650	1,075,756	1,378,701
Riversdale 4	R	1,711	80	55.00		278	2,313,000	482,415	749,240	960,234
Riverton 2	R	3,520	29	17.50		854	5,862,000	1,382,116	2,130,824	2,062,870
Riverton 3	R	1,205	54	39.00		177	2,200,000	518,706	799,695	774,192
Riverton 4	R	681	48	39.00		98	687,000	161,978	249,723	241,759
Riverton 5	R	1,221	72	35.00		149	1,262,000	297,549	458,734	444,105
Riverton 6	R	1,555	67	37.00		167	1,654,000	389,973	601,225	582,052
Riverton 7	R	4,008	153	90.00		645	4,105,000	967,858	1,492,158	1,444,572
Seaward Bush 3	U	3,525	34	10.00	7.30	693	8,603,000	2,028,376	3,127,171	3,027,444
Seaward Bush 4	R	720	32	17.00		79	5,160,000	1,216,601	1,875,648	1,815,833
Seaward Bush 5	R	3,714	202	120.00		541	4,377,000	1,031,989	1,591,029	1,540,291
Seaward Bush 6	U	6,285	37	20.00	11.60	1,124	11,284,000	2,660,490	4,101,708	3,970,902
Seaward Bush 6	R	908	49	27.00		154	973,000	229,410	353,683	342,404
South Gore 3	U	3,525	34	87.00		693	4,136,000	862,632	1,339,756	1,717,045
South Gore 4	U	720	32	7.00	4.70	78	11,716,000	2,443,567	3,795,111	4,863,855
South Gore 4	R	1,000	0	7.00		1	1,350,000	281,565	437,299	560,448
South Gore 5	U	3,714	202	9.00	4.20	541	7,419,000	1,547,356	2,403,203	3,079,971
South Gore 6	R	7,193	86	75.00		1,278	329,000	68,618	106,571	136,583
Te Anau 1	U	4,085	19	5.00	8.50	725	6,010,000	1,189,235	1,823,156	2,651,353
Te Anau 1	R	535	24	15.00		53	348,000	68,861	105,567	153,523
Te Anau 1	I	338	16	27.00		22	422,000	83,504	128,015	186,168
Te Anau 2	R	978	68	52.00		116	1,094,155	216,507	331,916	482,694
Te Anau 2	I	105	5	17.00		5	38,845	7,686	11,784	17,137
Te Anau 4	U	6,085	29	5.00	9.60	477	9,977,000	1,974,209	3,026,561	4,401,423
Te Anau 4	R	755	21	10.00		49	434,000	85,878	131,656	191,462
Tokanui 1	R	1,756	96	100.00		327	1,961,000	462,356	712,819	690,087
Tokanui 1	I	228	19	22.00		34	243,000	57,293	88,330	85,513
Tokanui 2	R	1,465	98	100.00		224	1,231,000	290,240	447,466	433,196
Underwood 3	R	2,400	37	5.00		315	3,665,000	617,456	976,441	1,689,456
Underwood 4	R	10,000	0	0.50		1	31,340,000	5,279,966	8,349,705	14,446,807
Underwood 5	R	2,125	80	28.00		246	2,327,000	392,038	619,967	1,072,676
Underwood 6	R	0	0	0.50		0	0	0	0	0
Waikwi 3	U	3,995	18	8.00	2.40	740	7,174,000	1,691,453	2,607,733	2,524,570
Waikwi 4	U	3,230	16	6.00	1.80	387	5,721,000	1,348,871	2,079,570	2,013,252
Waikwi 4	R	3,180	74	28.00		285	5,200,000	1,226,032	1,890,188	1,829,909
Waikwi 5	U	1,150	18	2.00	7.50	182	2,033,000	479,331	738,991	715,424
Waikwi 5	R	5,686	288	115.00		788	7,064,000	1,665,518	2,567,748	2,485,861
Waikwi 6	U	6,265	27	6.00		878	10,335,000	2,436,739	3,756,749	3,636,944
Waikwi 6	R	455	25	17.00		78	572,000	134,864	207,921	201,290
Winton 1	R	1,895	108	67.00		253	2,038,000	403,271	618,235	899,078
Winton 3	U	3,440	23	10.00	6.40	649	7,036,000	1,392,256	2,134,398	3,103,980
Winton 5	R	658	44	32.00		96	796,000	157,509	241,470	351,161
Winton 6	R	1,295	81	50.00		155	1,533,000	303,344	465,041	676,264
Winton 11	U	4,210	20	3.00	5.40	519	8,409,000	1,663,939	2,550,902	3,709,689
Winton 11	R	930	27	12.00		60	677,000	133,962	205,371	298,663
Winton 12	R	4,794	233	107.00		527	4,783,000	946,441	1,450,941	2,110,054
Winton 13	R	2,388	162	97.00		295	2,082,000	411,978	631,583	918,489
Winton 15	R	2,378	158	97.00		339	2,013,000	398,324	610,651	888,049

TABLE 15

DISTRIBUTION COSTS ALLOCATION												
TPC		ASSET VALUE	ASSET VALUE	USE CHARGE	Supply Chrg. per km Line	Supply Chrg. per km Cable	Supply Chrg. per Tx.	Mtoe.Chrg. Total	Mtoe.Chrg. per km Line	Mtoe.Chrg. per km Cable	Mtoe.Chrg. per Tx.	
O/H Lines	-<11kV	\$3,440,790										
	-Globo(45% Dist)	\$5,461,937										
	-Capital 94	\$750,000										
Cables	-Load Control (25%)	\$797,237	\$10,449,965	\$1,864,928	\$391.98			\$358.58				
	-<11kV	\$1,171,673										
	-Globo(15% Dist)	\$496,540										
	-Capital 94	\$250,000										
Transformers	-Load Control (5%)	\$159,447	\$2,077,660	\$370,784		\$2,917.85				\$230.88		
	-Transformers	\$2,429,702										
	-Communications	\$60,613										
	-Globo(40% Dist)	\$3,972,318										
	-Buildings	0										
	-Land	0										
	-Capital 94	\$550,000										
	-Load Control (20%)	\$637,790										
TOTAL		\$7,850,423	\$20,178,048	\$1,385,313				\$159.56	\$2,931,307		\$118.47	

EIL		ASSET VALUE	ASSET VALUE TOTAL	USE CHARGE TOTAL	ASSET VALUE CITY	USE CHARGE CITY	ASSET VALUE BLUFF	USE CHARGE BLUFF
O/H Lines	Lines	\$1,658,287						
	Switchgear	\$100,000						
	Capital	\$0						
	Load Control(25%)	\$74,275	\$1,832,562	\$434,044	\$1,512,299	\$358,190	\$320,283	\$75,855
Cables	Cables	\$7,156,053						
	Link Boxes etc	\$151,923						
	Capital	\$508,859						
Transformers	Load Control(25%)	\$74,275	\$7,890,910	\$1,888,970	\$7,807,997	\$1,849,332	\$62,913	\$19,638
	Transformers	\$1,929,007						
	Scada	\$43,440						
	Switchgear	\$1,231,991						
	Buildings	\$500,000						
	Land etc	\$3,000						
	Capital	\$391,817						
	Load Control(25%)	\$74,275						
Total		\$4,173,330	\$19,896,803	\$988,457	\$4,014,258	\$950,781	\$150,072	\$37,878
				\$3,291,472	\$18,934,555	\$3,158,903	\$562,248	\$153,169

EIL	Supply Chrg. per km Line	Supply Chrg. per km Cable	Supply Chrg. per Tx.	Supply Chrg. per km Line City	Supply Chrg. per km Cable City	Supply Chrg. per Tx. City	Supply Chrg. per km Line Bluff	Supply Chrg. per km Cable Bluff	Supply Chrg. per Tx. Bluff
O/H Lines	\$5,106.40			\$5,116.99			\$5,056.97		
Cables		\$6,187.21			\$6,164.44			\$9,486.97	
Transformers			\$2,399.17			\$2,555.86			\$941.91

EIL	Mtoe.Chrg. Total EIL Total	Mtoe.Chrg. per km Line EIL Total	Mtoe.Chrg. per km Cable EIL Total	Mtoe.Chrg. per Tx. EIL Total	Mtoe.Chrg. Total City	Mtoe.Chrg. per km Line City	Mtoe.Chrg. per km Cable City	Mtoe.Chrg. per Tx. City	Mtoe.Chrg. Total Bluff	Mtoe.Chrg. per km Line Bluff	Mtoe.Chrg. per km Cable Bluff	Mtoe.Chrg. per Tx. Bluff
Total O/H Lines	\$855,741				\$775,741				\$80,000			
Cables		\$6,443.23								\$4,533.33		
Transformers			\$736.56	\$207.70			\$672.31		\$208.53		\$386.47	\$280.00

Supply Charge Ratios		Rev/Exp. Balance	Exp	Rev
Capacity	80%		\$4,147,213	\$4,147,530
Winter Peak	25%		\$6,532,330	\$6,532,330
Winter Day	10%			
Summer Day	5%		\$10,679,543	\$10,679,860

TABLE 16

DISTRIBUTION COSTS & ALLOCATIONS			SUPPLY COSTS				MTCE COSTS
SUBSTATION & FEEDER	SUPPLY CHARGE	MAINT'ANCE CHARGE	per kVA	per Peak kWh	per Winter kWh	per Summer kWh	per Total kWh
			Awarua 1	\$325	\$286	\$0	\$0.0006
Bluff 3	\$16,900	\$14,753	\$3	\$0.0158	\$0.0117	\$0.0021	\$0.0130
Bluff 4	\$7,555	\$32,732	\$1	\$0.0010	\$0.0007	\$0.0001	\$0.0041
Bluff 5	\$9,862	\$47,586	\$1	\$0.0015	\$0.0011	\$0.0002	\$0.0068
Centre Bush 1	\$55,255	\$49,517	\$14	\$0.0313	\$0.0235	\$0.0028	\$0.0222
Centre Bush 1	\$3,277	\$3,069	\$20	\$0.0526	\$0.0395	\$0.0047	\$0.0390
Centre Bush 2	\$47,915	\$42,903	\$15	\$0.0288	\$0.0216	\$0.0026	\$0.0204
Conical Hills 1	\$23,049	\$21,175	\$14	\$0.0344	\$0.0249	\$0.0035	\$0.0264
Conical Hills 2	\$24,731	\$23,079	\$27	\$0.0509	\$0.0368	\$0.0051	\$0.0397
Conical Hills 5	\$663	\$677	\$0	\$0.0003	\$0.0002	\$0.0000	\$0.0002
Conical Hills 6	\$34,648	\$31,768	\$15	\$0.0393	\$0.0284	\$0.0040	\$0.0301
Dipton 1	\$31,690	\$28,932	\$14	\$0.0367	\$0.0275	\$0.0033	\$0.0265
Dipton 2	\$36,084	\$32,817	\$18	\$0.0376	\$0.0282	\$0.0034	\$0.0271
EIL	\$3,106,101	\$749,260	\$5	\$0.0150	\$0.0111	\$0.0020	\$0.0034
Edendale 1	\$42,846	\$39,493	\$13	\$0.0189	\$0.0141	\$0.0014	\$0.0122
Edendale 2	\$21,515	\$20,539	\$15	\$0.0175	\$0.0131	\$0.0013	\$0.0117
Edendale 3	\$36,673	\$31,603	\$6	\$0.0131	\$0.0097	\$0.0010	\$0.0079
Edendale 4	\$40,416	\$37,429	\$14	\$0.0082	\$0.0061	\$0.0006	\$0.0053
Edendale 5	\$23,761	\$19,762	\$6	\$0.0069	\$0.0052	\$0.0005	\$0.0040
Edendale 6	\$166	\$169	\$0	\$0.0000	\$0.0000	\$0.0000	\$0.0000
Glenham 1	\$48,811	\$44,331	\$16	\$0.0377	\$0.0281	\$0.0029	\$0.0240
Glenham 2	\$51,008	\$46,901	\$21	\$0.0543	\$0.0405	\$0.0041	\$0.0350
Gorge Road 1	\$26,424	\$23,832	\$17	\$0.0342	\$0.0253	\$0.0046	\$0.0291
Gorge Road 2	\$66,816	\$61,050	\$15	\$0.0279	\$0.0206	\$0.0037	\$0.0241
Hillside 1	\$10,960	\$10,127	\$25	\$0.0454	\$0.0341	\$0.0041	\$0.0332
Hillside 2	\$19,060	\$17,007	\$17	\$0.0370	\$0.0278	\$0.0033	\$0.0261
Hillside 2	\$19,662	\$18,412	\$24	\$0.0720	\$0.0540	\$0.0065	\$0.0534
Kelso 1	\$79,863	\$72,797	\$14	\$0.0268	\$0.0194	\$0.0027	\$0.0204
Kelso 1	\$11,696	\$11,438	\$47	\$0.0935	\$0.0676	\$0.0094	\$0.0763
Kelso 2	\$56,114	\$50,628	\$6	\$0.0105	\$0.0076	\$0.0011	\$0.0079
Kelso 3	\$61,588	\$56,267	\$16	\$0.0316	\$0.0229	\$0.0032	\$0.0241
Kelso 3	\$5,413	\$5,111	\$35	\$0.0771	\$0.0558	\$0.0078	\$0.0608
Kelso 4	\$32,672	\$29,843	\$16	\$0.0353	\$0.0255	\$0.0035	\$0.0269
Lumsden 1	\$46,835	\$42,405	\$16	\$0.0382	\$0.0287	\$0.0034	\$0.0274
Lumsden 2	\$34,144	\$31,208	\$17	\$0.0381	\$0.0286	\$0.0034	\$0.0276
Lumsden 5	\$5,351	\$4,583	\$2	\$0.0023	\$0.0017	\$0.0002	\$0.0016
Lumsden 6	\$59,391	\$54,953	\$15	\$0.0343	\$0.0257	\$0.0031	\$0.0251
Lumsden 6	\$4,750	\$4,434	\$26	\$0.0588	\$0.0441	\$0.0053	\$0.0435
Makarewa 3	\$34,181	\$30,268	\$10	\$0.0157	\$0.0108	\$0.0012	\$0.0094
Makarewa 4	\$166	\$169	\$0	\$0.0000	\$0.0000	\$0.0000	\$0.0000
Makarewa 5	\$38,747	\$33,118	\$8	\$0.0197	\$0.0136	\$0.0014	\$0.0114
Makarewa 6	\$31,383	\$27,549	\$6	\$0.0093	\$0.0064	\$0.0007	\$0.0055
Manapouri 1	\$15,170	\$13,684	\$5	\$0.0108	\$0.0081	\$0.0010	\$0.0077
Manapouri 2	\$26,486	\$24,360	\$17	\$0.0446	\$0.0334	\$0.0040	\$0.0324
Manapouri 2	\$11,316	\$10,677	\$27	\$0.0883	\$0.0662	\$0.0079	\$0.0659
Mataura 3	\$6,296	\$5,176	\$1	\$0.0026	\$0.0019	\$0.0003	\$0.0018
Mataura 3	\$63,146	\$58,371	\$11	\$0.0446	\$0.0323	\$0.0045	\$0.0344
Mataura 4	\$927	\$479	\$0	\$0.0001	\$0.0001	\$0.0000	\$0.0000
Mataura 5	\$5,337	\$3,333	\$2	\$0.0030	\$0.0022	\$0.0003	\$0.0016
Mataura 5	\$52,002	\$47,916	\$18	\$0.0418	\$0.0302	\$0.0042	\$0.0321
Monowai 1	\$18,484	\$17,069	\$17	\$0.0451	\$0.0338	\$0.0040	\$0.0330
Monowai 2	\$3,437	\$3,185	\$7	\$0.0277	\$0.0208	\$0.0025	\$0.0203
Mossburn 1	\$43,865	\$40,720	\$24	\$0.0483	\$0.0362	\$0.0043	\$0.0355
Mossburn 1	\$11,954	\$11,143	\$28	\$0.0795	\$0.0596	\$0.0071	\$0.0586
Mossburn 2	\$35,286	\$32,234	\$7	\$0.0186	\$0.0139	\$0.0017	\$0.0134
North Gore 2	\$68,068	\$60,514	\$14	\$0.0384	\$0.0278	\$0.0039	\$0.0285
North Gore 3	\$18,462	\$8,842	\$3	\$0.0037	\$0.0027	\$0.0004	\$0.0015
North Gore 4	\$68,878	\$59,946	\$8	\$0.0160	\$0.0116	\$0.0016	\$0.0116
North Gore 5	\$22,337	\$9,772	\$1	\$0.0018	\$0.0013	\$0.0002	\$0.0006

TABLE 16 (contd)

DISTRIBUTION COSTS & ALLOCATIONS			SUPPLY COSTS				MTCE COSTS
SUBSTATION & FEEDER	SUPPLY CHARGE	MAINT'ANCE CHARGE					per Total kWh
			per kVA	per Peak kWh	per Winter kWh	per Summer kWh	
Ohai 1	\$15,366	\$14,117	\$18	\$0.0339	\$0.0255	\$0.0030	\$0.0247
Ohai 2	\$38,416	\$34,036	\$7	\$0.0141	\$0.0106	\$0.0013	\$0.0099
Ohai 3	\$166	\$169	\$0	\$0.0001	\$0.0001	\$0.0000	\$0.0001
Ohai 4	\$37,581	\$34,393	\$18	\$0.0459	\$0.0345	\$0.0041	\$0.0333
Orawia 1	\$37,495	\$33,654	\$16	\$0.0345	\$0.0259	\$0.0031	\$0.0245
Orawia 1	\$5,732	\$5,344	\$21	\$0.0641	\$0.0481	\$0.0057	\$0.0473
Orawia 2	\$35,764	\$32,584	\$18	\$0.0437	\$0.0328	\$0.0039	\$0.0315
Orawia 3	\$55,377	\$49,317	\$6	\$0.0113	\$0.0085	\$0.0010	\$0.0080
Orawia 3	\$5,891	\$5,460	\$24	\$0.0689	\$0.0517	\$0.0062	\$0.0506
Otatara 1	\$31,825	\$27,581	\$6	\$0.0082	\$0.0061	\$0.0011	\$0.0067
Otatara 2	\$11,328	\$9,526	\$2	\$0.0020	\$0.0015	\$0.0003	\$0.0016
Otautau 1	\$27,063	\$24,298	\$15	\$0.0257	\$0.0192	\$0.0023	\$0.0182
Otautau 2	\$25,246	\$22,489	\$12	\$0.0306	\$0.0230	\$0.0027	\$0.0216
Otautau 3	\$17,060	\$14,870	\$3	\$0.0049	\$0.0037	\$0.0004	\$0.0034
Otautau 4	\$30,156	\$27,039	\$15	\$0.0282	\$0.0211	\$0.0025	\$0.0200
R'course Rd 46	\$12,138	\$11,471	\$2	\$0.0015	\$0.0011	\$0.0002	\$0.0014
Riversdale 1	\$40,968	\$37,156	\$17	\$0.0307	\$0.0222	\$0.0031	\$0.0233
Riversdale 2	\$51,168	\$45,761	\$12	\$0.0222	\$0.0161	\$0.0022	\$0.0166
Riversdale 3	\$56,531	\$50,449	\$10	\$0.0204	\$0.0148	\$0.0021	\$0.0152
Riversdale 4	\$30,990	\$27,939	\$11	\$0.0161	\$0.0116	\$0.0016	\$0.0121
Riverton 2	\$10,426	\$9,302	\$2	\$0.0019	\$0.0014	\$0.0003	\$0.0016
Riverton 3	\$21,540	\$19,493	\$11	\$0.0104	\$0.0077	\$0.0014	\$0.0089
Riverton 4	\$20,582	\$18,794	\$18	\$0.0318	\$0.0235	\$0.0043	\$0.0274
Riverton 5	\$23,086	\$20,236	\$11	\$0.0194	\$0.0143	\$0.0026	\$0.0160
Riverton 6	\$22,951	\$20,330	\$9	\$0.0147	\$0.0109	\$0.0020	\$0.0123
Riverton 7	\$54,236	\$48,291	\$8	\$0.0140	\$0.0103	\$0.0019	\$0.0118
Seaward Bush 3	\$30,040	\$9,030	\$5	\$0.0037	\$0.0027	\$0.0005	\$0.0010
Seaward Bush 4	\$10,739	\$9,483	\$9	\$0.0022	\$0.0016	\$0.0003	\$0.0018
Seaward Bush 5	\$71,995	\$64,154	\$12	\$0.0174	\$0.0129	\$0.0023	\$0.0147
Seaward Bush 6	\$46,379	\$13,757	\$4	\$0.0044	\$0.0032	\$0.0006	\$0.0012
Seaward Bush 6	\$16,765	\$14,848	\$11	\$0.0183	\$0.0135	\$0.0024	\$0.0153
South Gore 3	\$34,255	\$33,415	\$6	\$0.0099	\$0.0072	\$0.0010	\$0.0081
South Gore 4	\$21,140	\$7,181	\$18	\$0.0022	\$0.0016	\$0.0002	\$0.0006
South Gore 4	\$2,320	\$2,370	\$1	\$0.0021	\$0.0015	\$0.0002	\$0.0018
South Gore 5	\$47,468	\$27,543	\$8	\$0.0077	\$0.0055	\$0.0008	\$0.0037
South Gore 6	\$38,575	\$35,409	\$3	\$0.1405	\$0.1016	\$0.0141	\$0.1076
Te Anau 1	\$29,491	\$5,867	\$4	\$0.0062	\$0.0047	\$0.0006	\$0.0010
Te Anau 1	\$8,800	\$7,874	\$10	\$0.0319	\$0.0240	\$0.0029	\$0.0226
Te Anau 1	\$11,500	\$11,005	\$20	\$0.0344	\$0.0258	\$0.0031	\$0.0261
Te Anau 2	\$28,081	\$25,525	\$17	\$0.0324	\$0.0243	\$0.0029	\$0.0233
Te Anau 2	\$6,431	\$6,338	\$37	\$0.2092	\$0.1570	\$0.0188	\$0.1632
Te Anau 4	\$34,296	\$7,285	\$3	\$0.0043	\$0.0033	\$0.0004	\$0.0007
Te Anau 4	\$6,664	\$5,831	\$5	\$0.0194	\$0.0146	\$0.0017	\$0.0134
Tokanui 1	\$48,455	\$45,037	\$17	\$0.0262	\$0.0193	\$0.0035	\$0.0230
Tokanui 1	\$10,322	\$9,661	\$27	\$0.0450	\$0.0333	\$0.0060	\$0.0398
Tokanui 2	\$48,774	\$45,270	\$20	\$0.0420	\$0.0310	\$0.0056	\$0.0368
Underwood 3	\$7,560	\$6,002	\$2	\$0.0031	\$0.0021	\$0.0002	\$0.0016
Underwood 4	\$166	\$169	\$0	\$0.0000	\$0.0000	\$0.0000	\$0.0000
Underwood 5	\$22,043	\$18,797	\$6	\$0.0141	\$0.0097	\$0.0010	\$0.0081
Underwood 6	\$166	\$169					
Waikiwi 3	\$12,526	\$5,359	\$2	\$0.0019	\$0.0014	\$0.0002	\$0.0007
Waikiwi 4	\$9,793	\$4,310	\$2	\$0.0018	\$0.0013	\$0.0002	\$0.0008
Waikiwi 4	\$21,086	\$18,099	\$4	\$0.0043	\$0.0032	\$0.0006	\$0.0035
Waikiwi 5	\$25,419	\$4,504	\$13	\$0.0133	\$0.0098	\$0.0018	\$0.0022
Waikiwi 5	\$84,060	\$72,478	\$9	\$0.0126	\$0.0093	\$0.0017	\$0.0103
Waikiwi 6	\$6,296	\$5,176	\$1	\$0.0006	\$0.0005	\$0.0001	\$0.0005
Waikiwi 6	\$9,622	\$8,667	\$13	\$0.0178	\$0.0132	\$0.0024	\$0.0152
Winton 1	\$39,434	\$35,262	\$12	\$0.0244	\$0.0183	\$0.0022	\$0.0173
Winton 3	\$25,658	\$7,541	\$4	\$0.0046	\$0.0035	\$0.0004	\$0.0011
Winton 5	\$17,625	\$15,959	\$16	\$0.0280	\$0.0210	\$0.0025	\$0.0200
Winton 6	\$29,493	\$26,362	\$14	\$0.0243	\$0.0182	\$0.0022	\$0.0172
Winton 11	\$19,942	\$4,591	\$3	\$0.0030	\$0.0022	\$0.0003	\$0.0005
Winton 11	\$8,285	\$7,207	\$5	\$0.0155	\$0.0116	\$0.0014	\$0.0106
Winton 12	\$72,634	\$63,364	\$9	\$0.0192	\$0.0144	\$0.0017	\$0.0132
Winton 13	\$57,992	\$51,709	\$15	\$0.0352	\$0.0264	\$0.0032	\$0.0248
Winton 15	\$57,353	\$51,243	\$14	\$0.0360	\$0.0270	\$0.0032	\$0.0255

TABLE 17

DISTRIBUTION COSTS & ALLOCATIONS							
SUBSTATION & FEEDER	SUPPLY CHARGE	MAINT'ANCE CHARGE	SUPPLY COSTS			MTCE COSTS per Total kWh	
			per kVA	per Peak kWh	per Winter kWh		per Summer kWh
EIL CITY	\$3,158,303	\$775,741	\$15	\$0.0155	\$0.0114	\$0.0021	\$0.0035
EIL BLUFF	\$133,169	\$80,317	\$9	\$0.0094	\$0.0070	\$0.0013	\$0.0054
TPC URBAN	\$507,707	\$141,279	\$4	\$0.0043	\$0.0032	\$0.0005	\$0.0010
TPC RURAL	\$2,985,372	\$2,687,936	\$9	\$0.0138	\$0.0100	\$0.0013	\$0.0100
TPC ISOLATED	\$107,944	\$102,092	\$27	\$0.0651	\$0.0485	\$0.0062	\$0.0501

TABLE 18

DISTRIBUTION ELECTRICAL PARAMETERS										
SUBSTATION & FEEDER		TOTAL KVA	No of Tx's	LINE LGTH	CABLE LGTH	TOTAL Custs	TOTAL kWh	WINTER PEAK kWh	WINTER DAY kWh	SUMMER DAY kWh
EIL CITY	E	125,585	372	70	300	15,350	220,000,000	50,975,663	78,589,768	76,083,494
EIL BLUFF	E	9,150	40	15	2	1,000	15,000,000	3,536,632	5,452,466	5,278,583
TPC URBAN	U	71,983	600	124.30	127.07	8,484	136,103,000	29,278,997	45,227,306	54,464,907
TPC RURAL	R	208,644	7,781	5,263	0	21,363	269,384,210	54,169,748	83,888,510	112,923,844
TPC ISOLATED	I	2,432	176	241.00	0.00	237	2,036,673	414,721	637,264	870,715

TABLE 19

<b>CHARGES PER CUSTOMER</b>				
	<b>TPC</b>		<b>EIL•</b>	
	<b>Value</b>	<b>Ann Cost</b>	<b>Value</b>	<b>Ann Cost</b>
Ripple Receivers	\$2,028,117	\$361,943	\$579,944	\$137,360
Meters	\$1,340,168	\$239,170	\$611,203	\$144,764
Overheads		1573000		810000
MSL	\$0	0		
Contingency	\$0			
Charge per Customer		\$72		\$64
Commercial Metering >100kVA		\$720		\$720
<b>Rev/Exp. Balance</b>				
	<b>Exp</b>	<b>Rev</b>		
EIL Charges	\$1,092,124	\$1,092,124		
TPC Charges	\$2,174,112	\$2,174,112		
Total Charges	\$3,266,237	\$3,266,237		
<b>Total Wheeling Fees</b>				
<b>Rev/Exp. Balance</b>				
	<b>Exp</b>	<b>Rev</b>		
EIL	\$10,022,021	\$10,026,023		
TPC	\$18,925,913	\$18,934,451		
TOTAL	\$28,947,934	\$28,960,474		

TABLE 20

PowerNet Line Charges 1994/95

Schedule 7

NZISC	Capacity kVA	HV/LV Supply	Trans Power Charge	PowerNet Total	Total Line Charge per Methodology	Approved 1994/95 Line Charge	Fixed Charge \$ per annum	Variable Charge \$/ Daytime kWh
31	9720	HV	\$742,536	\$84,055	\$826,591	\$826,591	\$413,295	\$0.0161
31	138	LV	\$11,101	\$2,765	\$13,865	\$13,865	\$6,933	\$0.0191
31	4710	HV	\$173,660	\$31,193	\$204,853	\$204,853	\$102,426	\$0.0114
31	558	HV	\$40,889	\$7,192	\$47,881	\$47,881	\$23,940	\$0.0132
31	222	LV	\$9,682	\$2,537	\$12,219	\$12,219	\$6,109	\$0.0151
31	4694	HV	\$204,843	\$42,705	\$247,547	\$247,547	\$123,774	\$0.0140
31	80	LV	\$3,852	\$1,413	\$5,264	\$5,264	\$2,632	\$0.0282
34	2464	HV	\$143,848	\$23,936	\$167,784	\$167,784	\$83,892	\$0.0163
31	5500	HV	\$49,571	\$9,644	\$59,215	\$59,215	\$29,607	\$0.0115
35	1275	HV	\$43,953	\$16,699	\$60,652	\$60,652	\$30,326	\$0.0090
93	813	HV	\$32,368	\$9,795	\$42,163	\$42,163	\$21,082	\$0.0077
93	102	LV	\$8,068	\$3,403	\$11,471	\$11,471	\$5,736	\$0.0204
93	71	LV	\$2,358	\$2,084	\$4,442	\$4,442	\$2,221	\$0.0147
93	78	LV	\$2,554	\$2,416	\$4,970	\$4,970	\$2,485	\$0.0161
33	2000	HV	\$76,878	\$65,841	\$142,719	\$142,719	\$71,359	\$0.0344
31	920	HV	\$50,538	\$14,644	\$65,182	\$65,182	\$32,591	\$0.0165
39	701	LV	\$19,278	\$7,684	\$26,962	\$26,962	\$13,481	\$0.0080
31	683	LV	\$45,120	\$10,599	\$55,719	\$55,719	\$27,859	\$0.0148
33	309	LV	\$25,433	\$6,299	\$31,732	\$31,732	\$15,866	\$0.0162
33	381	LV	\$19,428	\$4,919	\$24,348	\$24,348	\$12,174	\$0.0215
33	90	LV	\$7,013	\$2,926	\$9,939	\$9,939	\$4,969	\$0.0146
21	1280	HV	\$63,057	\$42,946	\$106,003	\$106,003	\$53,002	\$0.0267
63	357	LV	\$39,717	\$20,897	\$60,614	\$60,614	\$30,307	\$0.0184
63	40	LV	\$3,477	\$2,720	\$6,197	\$6,197	\$3,098	\$0.0240
42	415	HV	\$13,882	\$8,542	\$22,424	\$22,424	\$11,212	\$0.0096
42	64	HV	\$1,602	\$1,119	\$2,721	\$2,721	\$1,360	\$0.0097
33	120	LV	\$10,035	\$7,382	\$17,416	\$17,416	\$8,708	\$0.0216
33	120	LV	\$12,118	\$8,649	\$20,767	\$20,767	\$10,384	\$0.0196
33	120	LV	\$10,650	\$8,487	\$19,137	\$19,137	\$9,568	\$0.0243
63	50	LV	\$1,934	\$2,076	\$4,010	\$4,010	\$4,010	
63	300	LV	\$13,435	\$3,637	\$17,072	\$17,072	\$8,536	\$0.0079
63	86	LV	\$3,213	\$1,624	\$4,837	\$4,837	\$2,419	\$0.0105
63	50	LV	\$1,410	\$1,496	\$2,907	\$2,907	\$1,453	\$0.0198
63	50	LV	\$1,763	\$1,909	\$3,672	\$3,672	\$1,836	\$0.0146
63	400	LV	\$17,220	\$12,927	\$30,147	\$30,147	\$30,155	
63	200	LV	\$5,586	\$4,576	\$10,163	\$10,163	\$10,165	
63	100	LV	\$1,645	\$2,343	\$3,988	\$3,988	\$3,989	
63	200	LV	\$12,240	\$10,635	\$22,874	\$22,874	\$22,881	
63	75	LV	\$1,949	\$2,238	\$4,187	\$4,187	\$4,188	
63	75	LV	\$2,126	\$2,400	\$4,525	\$4,525	\$4,527	
63	100	LV	\$4,978	\$5,073	\$10,051	\$10,051	\$10,055	
63	150	LV	\$7,028	\$6,416	\$13,444	\$13,444	\$13,448	
63	300	LV	\$8,929	\$6,458	\$15,387	\$15,387	\$15,389	
63	150	LV	\$4,938	\$4,233	\$9,171	\$9,171	\$9,173	
63	50	LV	\$1,722	\$2,113	\$3,835	\$3,835	\$3,836	
62	280	LV	\$10,672	\$3,918	\$14,589	\$14,589	\$7,295	\$0.0095
62	202	LV	\$16,080	\$4,302	\$20,382	\$20,382	\$10,191	\$0.0183
31	367	LV	\$14,687	\$4,063	\$18,751	\$18,751	\$9,375	\$0.0089
31	293	LV	\$9,934	\$3,802	\$13,736	\$13,736	\$6,868	\$0.0093
31	272	LV	\$8,581	\$3,466	\$12,047	\$12,047	\$6,023	\$0.0103
72	228	LV	\$11,819	\$9,695	\$21,515	\$21,515	\$10,757	\$0.0098
33	150	LV	\$7,720	\$2,705	\$10,425	\$10,425	\$5,213	\$0.0077
33	120	LV	\$3,958	\$2,179	\$6,137	\$6,137	\$3,068	\$0.0091
33	100	LV	\$2,853	\$1,887	\$4,740	\$4,740	\$2,370	\$0.0169
33	50	LV	\$959	\$1,453	\$2,412	\$2,412	\$1,206	\$0.0574
31	462	LV	\$31,287	\$6,703	\$37,990	\$37,990	\$18,995	\$0.0194
32	276	LV	\$26,886	\$5,527	\$32,412	\$32,412	\$16,206	\$0.0198
31	102	LV	\$6,362	\$8,925	\$15,287	\$15,287	\$7,643	\$0.0322
31	226	LV	\$14,608	\$18,268	\$32,876	\$32,876	\$16,438	\$0.0339
63	63	LV	\$18,043	\$10,532	\$28,575	\$28,575	\$14,288	\$0.0218
63	109	LV	\$9,686	\$2,484	\$12,170	\$12,170	\$6,085	\$0.0167
63	47	LV	\$3,305	\$1,518	\$4,823	\$4,823	\$2,411	\$0.0236
92	300	LV	\$11,237	\$6,567	\$17,804	\$17,804	\$8,902	\$0.0135
63	330	LV	\$18,843	\$10,980	\$29,824	\$29,824	\$14,912	\$0.0208
31	240	LV	\$8,002	\$7,069	\$15,071	\$15,071	\$7,535	\$0.0172
31	75	HV	\$934	\$2,939	\$3,874	\$3,874	\$1,937	\$0.0143
31	100	LV	\$1,549	\$3,189	\$4,739	\$4,739	\$2,369	\$0.0698
31	100	LV	\$1,498	\$3,170	\$4,668	\$4,668	\$2,334	\$0.0706
39	220	HV	\$7,259	\$2,771	\$10,031	\$10,031	\$5,015	\$0.0107
39	200	LV	\$10,660	\$3,662	\$14,322	\$14,322	\$7,161	\$0.0136
39	50	LV	\$2,841	\$1,461	\$4,302	\$4,302	\$2,151	\$0.0170
33	930	HV	\$18,843	\$40,256	\$59,098	\$59,098	\$29,549	\$0.0510
31	145	LV	\$4,137	\$2,075	\$6,212	\$6,212	\$3,106	\$0.0086
31	91	LV	\$3,922	\$4,294	\$8,216	\$8,216	\$4,108	\$0.0129
63	166	LV	\$9,247	\$6,195	\$15,442	\$15,442	\$7,721	\$0.0216
36	200	LV	\$5,526	\$3,354	\$8,880	\$8,880	\$4,440	\$0.0084
71	800	HV	\$35,374	\$32,382	\$67,756	\$74,531	\$74,537	
31	500	LV	\$13,245	\$12,871	\$26,117	\$32,646	\$32,649	
72	300	LV	\$11,663	\$9,397	\$21,059	\$23,165	\$23,172	
93	500	LV	\$14,148	\$10,857	\$25,005	\$25,005	\$25,010	
62	1200	LV	\$28,484	\$18,339	\$46,823	\$46,823	\$46,830	
62	300	LV	\$17,916	\$15,563	\$33,479	\$46,870	\$46,881	
31	750	LV	\$25,437	\$25,254	\$50,691	\$60,829	\$60,837	
81	2000	LV	\$16,983	\$20,121	\$37,104	\$51,946	\$51,955	
81	1200	LV	\$11,823	\$13,905	\$25,728	\$25,728	\$25,731	
62	300	LV	\$14,144	\$12,952	\$27,096	\$40,643	\$40,652	
31	1000	LV	\$24,088	\$21,190	\$45,278	\$47,542	\$47,547	

TABLE 20 (cont)

09:51 PM		12/09/95		PowerNet Line Charges 1994/95						
Schedule 7										
Customer Size	Premises	Number of Connections	Daytime Energy kWh	Trans Power Charge	PowerNet Charge	Total Line Charge per Methodology	Approved 1994/95 Line Charge	Fixed Charge \$ per annum	Variable Charge \$/ Daytime kWh	
up to 1kVA Streetlights	TPC URBAN	3,500		\$2	\$4	\$6	\$6	\$8		
	TPC RURAL	1,311		\$2	\$8	\$11	\$11	\$11		
	TPC REMOTE RURAL	0		\$4	\$22	\$26	\$15	\$15		
up to 20 kVA	TPC URBAN	7,726	41,378,923	\$119	\$121	\$240	\$359	\$179	\$0.034	
	TPC RURAL	16,730	102,737,867	\$113	\$307	\$420	\$403	\$201	\$0.034	
	TPC REMOTE RURAL	214	1,507,979	\$113	\$612	\$725	\$440	\$220	\$0.034	
up to 50kVA	TPC URBAN	492	4,762,146	\$525	\$270	\$795	\$914	\$457	\$0.054	
	TPC RURAL	4,340	16,815,931	\$375	\$688	\$1,063	\$1,026	\$513	\$0.054	
	TPC REMOTE RURAL	21	150,453	\$375	\$1,516	\$1,892	\$1,122	\$561	\$0.054	
up to 75kVA	TPC URBAN	151	4,871,844	\$957	\$590	\$1,546	\$1,855	\$928	\$0.034	
	TPC RURAL	195	5,702,298	\$1,330	\$2,203	\$3,532	\$2,082	\$1,041	\$0.034	
	TPC REMOTE RURAL	1	29,243	\$1,330	\$4,675	\$6,005	\$2,277	\$1,138	\$0.034	
up to 100kVA	TPC URBAN	0	0	\$2,990	\$1,551	\$4,540	\$4,540	\$2,270	\$0.034	
	TPC RURAL	0	0	\$2,975	\$4,087	\$7,062	\$7,062	\$3,531	\$0.034	
up to 150kVA	TPC URBAN	100	7,743,328	\$4,484	\$2,019	\$6,503	\$6,503	\$3,252	\$0.034	
	TPC RURAL	73	3,735,736	\$4,463	\$5,734	\$10,197	\$10,197	\$5,098	\$0.034	
up to 200kVA	TPC URBAN	13	1,426,063	\$7,982	\$3,020	\$11,002	\$11,002	\$5,501	\$0.034	
	TPC RURAL	15	1,864,213	\$7,925	\$10,347	\$18,273	\$18,273	\$9,136	\$0.034	
up to 300kVA	TPC URBAN	6	2,903,748	\$11,972	\$4,223	\$16,195	\$16,195	\$8,098	\$0.034	
	TPC RURAL	2	1,096,596	\$11,888	\$15,125	\$27,013	\$27,013	\$13,506	\$0.034	
up to 500 kVA	TPC URBAN	4	1,032,444	\$19,954	\$6,510	\$26,464	\$26,464	\$13,232	\$0.034	
	TPC RURAL	1	292,426	\$19,813	\$24,680	\$44,493	\$44,493	\$22,247	\$0.034	
up to 750 kVA	TPC URBAN	0	0	\$29,931	\$9,368	\$39,299	\$39,299	\$19,650	\$0.034	
	TPC RURAL	0	0	\$29,720	\$36,624	\$66,344	\$66,344	\$33,172	\$0.034	
up to 1000 kVA	TPC URBAN	0	0	\$39,908	\$12,227	\$52,135	\$52,135	\$26,068	\$0.034	
	TPC RURAL	0	0	\$39,626	\$48,568	\$88,194	\$88,194	\$44,097	\$0.034	

<p><b>Multiple Installations</b></p> <p>For customers with multiple accounts and whose installations are connected to the same point of supply, there will be only one Line Charge plus a surcharge of \$30 per annum (1250 connections) for a single phase or \$36 per annum (2225 connections) for a three phase metered supply for each additional metered installation. This only applies to installations up to 75kVA.</p>
<p><b>Metering</b></p> <p>The above charges include the cost of metering and for customers above 75kVA provision has been made for Day / Night, Peak Time of Use and Maximum Demand kVA metering. There is an extra charge of \$30 per annum for a pre-payment key meter.</p>
<p><b>Individual Customer Line Charges</b></p> <p>For customer installations above 75kVA individual line charges may be applied subject to agreement on the customer annual load profile. Adjustments may be required dependent on high voltage equipment ownership.</p>

TABLE 20 (contd)

Customer Size	Premises	Number of Connections	Annual Total kWh	Trans Power Charge	PowerNet Charge	Total Line Charge per Methodology	Approved 1994/95 Line Charge
up to 1kVA Streetlights	EIL CITY	4563	No Limit	\$2	\$6	\$8	\$8
up to 20 kVA	EIL CITY	14551	No Limit	\$113	\$218	\$331	\$314
up to 50kVA	EIL CITY	817	<4000	\$136	\$319	\$455	\$455
			<13000	\$249	\$415	\$664	\$664
			<27000	\$357	\$552	\$909	\$909
			<100000	\$1,091	\$1,341	\$2,432	\$2,432
			<150000	\$1,503	\$1,861	\$3,364	\$3,364
			<200000	\$1,915	\$2,380	\$4,296	\$4,296
up to 75kVA	EIL CITY	401	<15000	\$554	\$729	\$1,283	\$1,283
			<38000	\$708	\$924	\$1,632	\$1,632
			<75000	\$1,017	\$1,314	\$2,331	\$2,331
			<150000	\$1,636	\$2,093	\$3,729	\$3,729
			<225000	\$2,254	\$2,872	\$5,127	\$5,127
			<300000	\$2,873	\$3,652	\$6,524	\$6,524
up to 100kVA	EIL CITY	10	<20000	\$1,869	\$2,024	\$3,893	\$3,893
			<50000	\$2,075	\$2,216	\$4,291	\$4,291
			<100000	\$2,487	\$2,599	\$5,087	\$5,087
			<200000	\$3,312	\$3,366	\$6,678	\$6,678
			<300000	\$4,136	\$4,133	\$8,269	\$8,269
			<400000	\$4,961	\$4,900	\$9,861	\$9,861
up to 150kVA	EIL CITY	91	<31000	\$2,803	\$2,803	\$5,606	\$5,606
			<75000	\$3,113	\$3,090	\$6,203	\$6,203
			<150000	\$3,731	\$3,665	\$7,396	\$7,396
			<300000	\$4,968	\$4,816	\$9,783	\$9,783
			<450000	\$6,205	\$5,966	\$12,171	\$12,171
			<600000	\$7,441	\$7,116	\$14,558	\$14,558
up to 200kVA	EIL CITY	95	<41000	\$3,738	\$3,687	\$7,425	\$7,425
			<100000	\$4,150	\$4,070	\$8,220	\$8,220
			<200000	\$4,975	\$4,837	\$9,812	\$9,812
			<400000	\$6,624	\$6,371	\$12,994	\$12,994
			<600000	\$8,273	\$7,904	\$16,177	\$16,177
			<800000	\$9,922	\$9,438	\$19,360	\$19,360
up to 300kVA	EIL CITY	46	<62000	\$5,607	\$5,455	\$11,062	\$11,062
			<150000	\$6,225	\$6,030	\$12,255	\$12,255
			<300000	\$7,462	\$7,180	\$14,642	\$14,642
			<600000	\$9,936	\$9,481	\$19,417	\$19,417
			<900000	\$12,409	\$11,781	\$24,191	\$24,191
			<1200000	\$14,883	\$14,082	\$28,965	\$28,965
up to 500 kVA	EIL CITY	11	<104000	\$9,345	\$8,569	\$17,913	\$17,913
			<250000	\$10,375	\$9,527	\$19,903	\$19,903
			<500000	\$12,437	\$11,444	\$23,881	\$23,881
			<1000000	\$16,559	\$15,279	\$31,838	\$31,838
			<1500000	\$20,682	\$19,113	\$39,795	\$39,795
			<2000000	\$24,805	\$22,947	\$47,752	\$47,752
up to 750 kVA	EIL CITY	3	<156000	\$14,017	\$12,461	\$26,478	\$26,478
			<375000	\$15,563	\$13,899	\$29,462	\$29,462
			<750000	\$18,655	\$16,775	\$35,430	\$35,430
			<1500000	\$24,839	\$22,526	\$47,365	\$47,365
			<2250000	\$31,023	\$28,277	\$59,301	\$59,301
			<3000000	\$37,207	\$34,029	\$71,236	\$71,236
up to 1000 kVA	EIL CITY	1	<208000	\$18,689	\$16,353	\$35,043	\$35,043
			<500000	\$20,751	\$18,270	\$39,021	\$39,021
			<1000000	\$24,874	\$22,105	\$46,978	\$46,978
			<2000000	\$33,119	\$29,773	\$62,892	\$62,892
			<3000000	\$41,364	\$37,442	\$78,806	\$78,806
			<4000000	\$49,610	\$45,110	\$94,720	\$94,720

**Metering**

The above charges include the cost of metering and for customers above 75kVA provision has been made for Day / Night, Peak Time of Use and Maximum Demand kVA metering.

**Individual Customer Line Charges**

For customer installations above 75kVA individual line charges may be applied subject to agreement on the customer annual load profile. Adjustments may be required dependent on high voltage equipment ownership.

TABLE 20 (contd)

09:51 PM		12/09/95		PowerNet Line Charges 1994/95			
Schedule 7							
Customer Size	Premises	Number of Connections	Annual Total kWh	Trans Power Charge	PowerNet Charge	Total Line Charge per Methodology	Approved 1994/95 Line Charge
up to 1kVA Streetlights	EIL BLUFF	100	No Limit	\$1	\$6	\$8	\$7
up to 20 kVA	EIL BLUFF	910	No Limit	\$108	\$219	\$328	\$304
up to 50kVA	EIL BLUFF	47	<4000	\$143	\$278	\$421	\$421
			<13000	\$269	\$415	\$684	\$684
			<27000	\$398	\$600	\$998	\$998
			<100000	\$1,248	\$1,685	\$2,933	\$2,933
			<150000	\$1,739	\$2,387	\$4,126	\$4,126
			<200000	\$2,230	\$3,089	\$5,319	\$5,319
up to 75kVA	EIL BLUFF	32	<15000	\$583	\$718	\$1,302	\$1,302
			<38000	\$767	\$982	\$1,749	\$1,749
			<75000	\$1,136	\$1,508	\$2,644	\$2,644
			<150000	\$1,872	\$2,561	\$4,433	\$4,433
			<225000	\$2,609	\$3,614	\$6,223	\$6,223
			<300000	\$3,345	\$4,667	\$8,013	\$8,013
up to 100kVA	EIL BLUFF	0	<20000	\$1,869	\$2,150	\$4,019	\$4,019
			<50000	\$2,075	\$2,414	\$4,489	\$4,489
			<100000	\$2,487	\$2,942	\$5,430	\$5,430
			<200000	\$3,312	\$3,999	\$7,311	\$7,311
			<300000	\$4,136	\$5,055	\$9,191	\$9,191
			<400000	\$4,961	\$6,111	\$11,072	\$11,072
up to 150kVA	EIL BLUFF	12	<31000	\$2,863	\$2,950	\$5,813	\$5,813
			<75000	\$3,231	\$3,372	\$6,603	\$6,603
			<150000	\$3,967	\$4,216	\$8,183	\$8,183
			<300000	\$5,440	\$5,903	\$11,343	\$11,343
			<450000	\$6,914	\$7,590	\$14,504	\$14,504
			<600000	\$8,387	\$9,277	\$17,664	\$17,664
up to 200kVA	EIL BLUFF	5	<41000	\$3,817	\$3,795	\$7,611	\$7,611
			<100000	\$4,308	\$4,357	\$8,665	\$8,665
			<200000	\$5,290	\$5,482	\$10,772	\$10,772
			<400000	\$7,254	\$7,731	\$14,985	\$14,985
			<600000	\$9,218	\$9,981	\$19,199	\$19,199
			<800000	\$11,182	\$12,231	\$23,413	\$23,413
up to 300kVA	EIL BLUFF	5	<62000	\$5,725	\$5,483	\$11,208	\$11,208
			<150000	\$6,462	\$6,327	\$12,788	\$12,788
			<300000	\$7,935	\$8,014	\$15,949	\$15,949
			<600000	\$10,881	\$11,388	\$22,269	\$22,269
			<900000	\$13,827	\$14,763	\$28,590	\$28,590
			<1200000	\$16,773	\$18,137	\$34,911	\$34,911
up to 500 kVA	EIL BLUFF	0	<104000	\$9,542	\$8,616	\$18,158	\$18,158
			<250000	\$10,769	\$10,022	\$20,791	\$20,791
			<500000	\$13,224	\$12,834	\$26,058	\$26,058
			<1000000	\$18,135	\$18,458	\$36,593	\$36,593
			<1500000	\$23,045	\$24,082	\$47,127	\$47,127
			<2000000	\$27,956	\$29,706	\$57,662	\$57,662
up to 750 kVA	EIL BLUFF	0	<156000	\$14,313	\$12,532	\$26,844	\$26,844
			<375000	\$16,154	\$14,641	\$30,795	\$30,795
			<750000	\$19,837	\$18,859	\$38,695	\$38,695
			<1500000	\$27,202	\$27,295	\$54,497	\$54,497
			<2250000	\$34,568	\$35,731	\$70,299	\$70,299
			<3000000	\$41,934	\$44,167	\$86,100	\$86,100
up to 1000 kVA	EIL BLUFF	0	<208000	\$19,083	\$16,448	\$35,531	\$35,531
			<500000	\$21,539	\$19,260	\$40,798	\$40,798
			<1000000	\$26,449	\$24,884	\$51,333	\$51,333
			<2000000	\$36,270	\$36,131	\$72,401	\$72,401
			<3000000	\$46,091	\$47,379	\$93,470	\$93,470
			<4000000	\$55,912	\$58,627	\$114,539	\$114,539

**Metering**

The above charges include the cost of metering and for customers above 75kVA provision has been been made for Day / Night, Peak Time of Use and Maximum Demand kVA metering.

**Individual Customer Line Charges**

For customer installations above 75kVA individual line charges may be applied subject to agreement on the customer annual load profile. Adjustments may be required dependent on high voltage equipment ownership.