



**EDB Information Disclosure Requirements  
Information Templates  
for  
Schedules 1–10**

|                              |  |
|------------------------------|--|
| Company Name                 | <input type="text" value="Marlborough Lines Limited"/> |
| Disclosure Date              | <input type="text" value="23 August 2019"/>            |
| Disclosure Year (year ended) | <input type="text" value="31 March 2019"/>             |

Templates for Schedules 1–10 excluding 5f–5g  
Template Version 4.1. Prepared 21 December 2017

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### **Disclosure Template Instructions**

These templates have been prepared for use by EDBs when making disclosures under clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1, and 2.5.2 of the Electricity Distribution Information Disclosure Determination 2012.

#### ***Company Name and Dates***

To prepare the templates for disclosure, the supplier's company name should be entered in cell C8, the date of the last day of the current (disclosure) year should be entered in cell C12, and the date on which the information is disclosed should be entered in cell C10 of the CoverSheet worksheet.

The cell C12 entry (current year) is used to calculate disclosure years in the column headings that show above some of the tables and in labels adjacent to some entry cells. It is also used to calculate the 'For year ended' date in the template title blocks (the title blocks are the light green shaded areas at the top of each template).

The cell C8 entry (company name) is used in the template title blocks.

Dates should be entered in day/month/year order (Example -"1 April 2013").

#### ***Data Entry Cells and Calculated Cells***

Data entered into this workbook may be entered only into the data entry cells. Data entry cells are the bordered, unshaded areas (white cells) in each template. Under no circumstances should data be entered into the workbook outside a data entry cell.

In some cases, where the information for disclosure is able to be ascertained from disclosures elsewhere in the workbook, such information is disclosed in a calculated cell.

#### ***Validation Settings on Data Entry Cells***

To maintain a consistency of format and to help guard against errors in data entry, some data entry cells test keyboard entries for validity and accept only a limited range of values. For example, entries may be limited to a list of category names, to values between 0% and 100%, or either a numeric entry or the text entry "N/A". Where this occurs, a validation message will appear when data is being entered. These checks are applied to keyboard entries only and not, for example, to entries made using Excel's copy and paste facility.

#### ***Conditional Formatting Settings on Data Entry Cells***

Schedule 2 cells G79 and I79:L79 will change colour if the total cashflows do not equal the corresponding values in table 2(ii).

Schedule 4 cells P99:P105 and P107 will change colour if the RAB values do not equal the corresponding values in table 4(ii).

Schedule 9b columns AA to AE (2013 to 2017) contain conditional formatting. The data entry cells for future years are hidden (are changed from white to yellow).

Schedule 9b cells AG10 to AG60 will change colour if the total assets at year end for each asset class does not equal the corresponding values in column I in Schedule 9a.

Schedule 9c cell G30 will change colour if G30 (overhead circuit length by terrain) does not equal G18 (overhead circuit length by operating voltage).

#### ***Inserting Additional Rows and Columns***

The templates for schedules 4, 5b, 5c, 5d, 5e, 6a, 8, 9d, and 9e may require additional rows to be inserted in tables marked 'include additional rows if needed' or similar. Column A schedule references should not be entered in additional rows, and should be deleted from additional rows that are created by copying and pasting rows that have schedule references.

Additional rows in schedules 5c, 6a, and 9e must not be inserted directly above the first row or below the last row of a table. This is to ensure that entries made in the new row are included in the totals.

Schedules 5d and 5e may require new cost or asset category rows to be inserted in allocation change tables 5d(iii) and 5e(ii). Accordingly, cell protection has been removed from rows 77 and 78 of the respective templates to allow blocks of rows to be copied. The four steps to add new cost category rows to table 5d(iii) are: Select Excel rows 69:77, copy, select Excel row 78, insert copied cells. Similarly, for table 5e(ii): Select Excel rows 70:78, copy, select Excel row 79, then insert copied cells.

The template for schedule 8 may require additional columns to be inserted between column P and U. To avoid interfering with the title block entries, these should be inserted to the left of column S. If inserting additional columns, the formulas for standard consumers total, non-standard consumers totals and total for all consumers will need to be copied into the cells of the added columns. The formulas can be found in the equivalent cells of the existing columns.

***Disclosures by Sub-Network***

If the supplier has sub-networks, schedules 8, 9a, 9b, 9c, 9e, and 10 must be completed for the network and for each sub-network. A copy of the schedule worksheet(s) must be made for each sub-network and named accordingly.

***Schedule References***

The references labelled 'sch ref' in the leftmost column of each template are consistent with the row references in the Electricity Distribution ID Determination 2012 (as issued on 21 December 2017). They provide a common reference between the rows in the determination and the template.

***Description of Calculation References***

Calculation cell formulas contain links to other cells within the same template or elsewhere in the workbook. Key cell references are described in a column to the right of each template. These descriptions are provided to assist data entry. Cell references refer to the row of the template and not the schedule reference.

***Worksheet Completion Sequence***

Calculation cells may show an incorrect value until precedent cell entries have been completed. Data entry may be assisted by completing the schedules in the following order:

1. Coversheet
2. Schedules 5a–5e
3. Schedules 6a–6b
4. Schedule 8
5. Schedule 3
6. Schedule 4
7. Schedule 2
8. Schedule 7
9. Schedules 9a–9e
10. Schedule 10

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

## SCHEDULE 1: ANALYTICAL RATIOS

This schedule calculates expenditure, revenue and service ratios from the information disclosed. The disclosed ratios may vary for reasons that are company specific and, as a result, must be interpreted with care. The Commerce Commission will publish a summary and analysis of information disclosed in accordance with the ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of the determination.

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

### 7 1(i): Expenditure metrics

|                                | Expenditure per GWh energy delivered to ICPs (\$/GWh) | Expenditure per average no. of ICPs (\$/ICP) | Expenditure per MW maximum coincident system demand (\$/MW) | Expenditure per km circuit length (\$/km) | Expenditure per MVA of capacity from EDB-owned distribution transformers (\$/MVA) |
|--------------------------------|---|--|---|---|---|
| <b>Operational expenditure</b> | 38,768  | 593  | 192,244   | 4,522                                     | 45,182  |
| Network                        | 18,450  | 282  | 91,491  | 2,152                                     | 21,503  |
| Non-network                    | 20,318  | 311  | 100,753   | 2,370                                     | 23,679  |
| <b>Expenditure on assets</b>   | 36,015  | 551  | 178,592   | 4,201                                     | 41,974  |
| Network                        | 30,948  | 473  | 153,465   | 3,610                                     | 36,068  |
| Non-network                    | 5,067   | 77   | 25,127  | 591                                       | 5,905   |

### 17 1(ii): Revenue metrics

|   | Revenue per GWh energy delivered to ICPs (\$/GWh) | Revenue per average no. of ICPs (\$/ICP) |
|---|---|--|
| <b>Total consumer line charge revenue</b> | 94,856  | 1,451                                    |
| Standard consumer line charge revenue     | 94,680  | 1,448                                    |
| Non-standard consumer line charge revenue | –   | –  |

### 23 1(iii): Service intensity measures

|                          |        |  |
|--------------------------|--------|--|
| Demand density           | 24     | Maximum coincident system demand per km of circuit length (for supply) (kW/km) |
| Volume density           | 117    | Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)  |
| Connection point density | 8      | Average number of ICPs per km of circuit length (for supply) (ICPs/km)         |
| Energy intensity         | 15,292 | Total energy delivered to ICPs per average number of ICPs (kWh/ICP)            |

### 30 1(iv): Composition of regulatory income

|  | (\$000)       | % of revenue |
|--|---------------|--------------|
| Operational expenditure  | 15,194        | 39.96%       |
| Pass-through and recoverable costs excluding financial incentives and wash-ups | 8,252         | 21.71%       |
| Total depreciation   | 9,932         | 26.12%       |
| Total revaluations   | 3,291         | 8.66%        |
| Regulatory tax allowance   | 1,444         | 3.80%        |
| Regulatory profit/(loss) including financial incentives and wash-ups           | 6,487         | 17.06%       |
| <b>Total regulatory income</b>   | <b>38,019</b> |              |

### 40 1(v): Reliability

|                   |       |                                  |
|-------------------|-------|----------------------------------|
| Interruption rate | 17.80 | Interruptions per 100 circuit km |
|-------------------|-------|----------------------------------|

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

## SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(iii).

EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

| 2(i): Return on Investment |   | CY-2      | CY-1      | Current Year CY |
|----------------------------|---|-----------|-----------|-----------------|
|                            |   | 31 Mar 17 | 31 Mar 18 | 31 Mar 19       |
|                            |   | %         | %         | %               |
| 7                          | <b>ROI – comparable to a post tax WACC</b>                      |           |           |                 |
| 8                          |   |           |           |                 |
| 9                          | Reflecting all revenue earned                                   | 2.09%     | 1.64%     | 2.44%           |
| 10                         | Excluding revenue earned from financial incentives              | 2.09%     | 1.64%     | 2.44%           |
| 11                         | Excluding revenue earned from financial incentives and wash-ups | 2.09%     | 1.64%     | 2.44%           |
| 12                         |   |           |           |                 |
| 13                         |   |           |           |                 |
| 14                         | <b>Mid-point estimate of post tax WACC</b>                      | 4.77%     | 5.04%     | 4.75%           |
| 15                         | 25th percentile estimate  | 4.05%     | 4.36%     | 4.07%           |
| 16                         | 75th percentile estimate  | 5.48%     | 5.72%     | 5.43%           |
| 17                         |   |           |           |                 |
| 18                         |   |           |           |                 |
| 19                         | <b>ROI – comparable to a vanilla WACC</b>                       |           |           |                 |
| 20                         | Reflecting all revenue earned                                   | 2.63%     | 2.24%     | 2.95%           |
| 21                         | Excluding revenue earned from financial incentives              | 2.63%     | 2.24%     | 2.95%           |
| 22                         | Excluding revenue earned from financial incentives and wash-ups | 2.63%     | 2.24%     | 2.95%           |
| 23                         |   |           |           |                 |
| 24                         | <b>WACC rate used to set regulatory price path</b>              | n/a       | n/a       | n/a             |
| 25                         |   |           |           |                 |
| 26                         | <b>Mid-point estimate of vanilla WACC</b>                       | 5.31%     | 5.60%     | 5.26%           |
| 27                         | 25th percentile estimate  | 4.59%     | 4.92%     | 4.58%           |
| 28                         | 75th percentile estimate  | 6.03%     | 6.29%     | 5.94%           |
| 29                         |   |           |           |                 |
| 30                         | <b>2(ii): Information Supporting the ROI</b>                    |           |           |                 |
| 31                         |   |           |           |                 |
| 32                         | Total opening RAB value   | 222,453   |           |                 |
| 33                         | plus Opening deferred tax                                       | (3,717)   |           |                 |
| 34                         | <b>Opening RIV</b>  |           | 218,736   |                 |
| 35                         |   |           |           |                 |
| 36                         | <b>Line charge revenue</b>                                      |           | 37,176    |                 |
| 37                         |   |           |           |                 |
| 38                         | Expenses cash outflow   | 23,446    |           |                 |
| 39                         | add Assets commissioned   | 9,297     |           |                 |
| 40                         | less Asset disposals  | 821       |           |                 |
| 41                         | add Tax payments  | 1,085     |           |                 |
| 42                         | less Other regulated income                                     | 843       |           |                 |
| 43                         | <b>Mid-year net cash outflows</b>                               |           | 32,164    |                 |
| 44                         |   |           |           |                 |
| 45                         | <b>Term credit spread differential allowance</b>                |           | –         |                 |
| 46                         |   |           |           |                 |
| 47                         | Total closing RAB value   | 224,288   |           |                 |
| 48                         | less Adjustment resulting from asset allocation                 | –         |           |                 |
| 49                         | less Lost and found assets adjustment                           | –         |           |                 |
| 50                         | plus Closing deferred tax                                       | (4,076)   |           |                 |
| 51                         | <b>Closing RIV</b>  |           | 220,211   |                 |
| 52                         |   |           |           |                 |
| 53                         | <b>ROI – comparable to a vanilla WACC</b>                       |           |           | 2.95%           |
| 54                         |   |           |           |                 |
| 55                         | Leverage (%)  |           |           | 42%             |
| 56                         | Cost of debt assumption (%)                                     |           |           | 4.33%           |
| 57                         | Corporate tax rate (%)  |           |           | 28%             |
| 58                         |   |           |           |                 |
| 59                         | <b>ROI – comparable to a post tax WACC</b>                      |           |           | 2.44%           |
| 60                         |   |           |           |                 |

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 2: REPORT ON RETURN ON INVESTMENT**

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(iii).

EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

**2(iii): Information Supporting the Monthly ROI**

|    |   |                     |                       |                     |                 |                        |                           |     |
|----|---|---------------------|-----------------------|---------------------|-----------------|------------------------|---------------------------|-----|
| 61 |   |                     |                       |                     |                 |                        |                           |     |
| 62 |   |                     |                       |                     |                 |                        |                           |     |
| 63 | Opening RIV                                 |                     |                       |                     |                 |                        |                           | N/A |
| 64 |   |                     |                       |                     |                 |                        |                           |     |
| 65 |   |                     |                       |                     |                 |                        |                           |     |
| 66 |   | Line charge revenue | Expenses cash outflow | Assets commissioned | Asset disposals | Other regulated income | Monthly net cash outflows |     |
| 67 | April                                       |                     |                       |                     |                 |                        |                           | -   |
| 68 | May   |                     |                       |                     |                 |                        |                           | -   |
| 69 | June  |                     |                       |                     |                 |                        |                           | -   |
| 70 | July  |                     |                       |                     |                 |                        |                           | -   |
| 71 | August                                      |                     |                       |                     |                 |                        |                           | -   |
| 72 | September                                   |                     |                       |                     |                 |                        |                           | -   |
| 73 | October                                     |                     |                       |                     |                 |                        |                           | -   |
| 74 | November                                    |                     |                       |                     |                 |                        |                           | -   |
| 75 | December                                    |                     |                       |                     |                 |                        |                           | -   |
| 76 | January                                     |                     |                       |                     |                 |                        |                           | -   |
| 77 | February                                    |                     |                       |                     |                 |                        |                           | -   |
| 78 | March                                       |                     |                       |                     |                 |                        |                           | -   |
| 79 | <b>Total</b>                                | -                   | -                     | -                   | -               | -                      | -                         | -   |
| 80 |   |                     |                       |                     |                 |                        |                           |     |
| 81 | Tax payments                                |                     |                       |                     |                 |                        |                           | N/A |
| 82 |   |                     |                       |                     |                 |                        |                           |     |
| 83 | Term credit spread differential allowance   |                     |                       |                     |                 |                        |                           | N/A |
| 84 |   |                     |                       |                     |                 |                        |                           |     |
| 85 | Closing RIV                                 |                     |                       |                     |                 |                        |                           | N/A |
| 86 |   |                     |                       |                     |                 |                        |                           |     |
| 87 |   |                     |                       |                     |                 |                        |                           |     |
| 88 | Monthly ROI – comparable to a vanilla WACC  |                     |                       |                     |                 |                        |                           | N/A |
| 89 |   |                     |                       |                     |                 |                        |                           |     |
| 90 | Monthly ROI – comparable to a post tax WACC |                     |                       |                     |                 |                        |                           | N/A |
| 91 |   |                     |                       |                     |                 |                        |                           |     |

**2(iv): Year-End ROI Rates for Comparison Purposes**

|    |   |  |       |
|----|---|--|-------|
| 92 |   |  |       |
| 93 |   |  |       |
| 94 | Year-end ROI – comparable to a vanilla WACC   |  | 2.90% |
| 95 |   |  |       |
| 96 | Year-end ROI – comparable to a post tax WACC  |  | 2.39% |
| 97 |   |  |       |
| 98 | * these year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by EDBs and do not represent the Commission's current view on ROI. |  |       |
| 99 |   |  |       |

**2(v): Financial Incentives and Wash-Ups**

|     |  |  |   |
|-----|--|--|---|
| 101 |  |  |   |
| 102 | Net recoverable costs allowed under incremental rolling incentive scheme |  | - |
| 103 | Purchased assets – avoided transmission charge                           |  |   |
| 104 | Energy efficiency and demand incentive allowance                         |  |   |
| 105 | Quality incentive adjustment   |  |   |
| 106 | Other financial incentives   |  |   |
| 107 | <b>Financial incentives</b>  |  | - |
| 108 |  |  |   |
| 109 | <b>Impact of financial incentives on ROI</b>                             |  | - |
| 110 |  |  |   |
| 111 | Input methodology claw-back  |  |   |
| 112 | CPP application recoverable costs  |  |   |
| 113 | Catastrophic event allowance   |  |   |
| 114 | Capex wash-up adjustment   |  |   |
| 115 | Transmission asset wash-up adjustment                                    |  |   |
| 116 | 2013–15 NPV wash-up allowance  |  |   |
| 117 | Reconsideration event allowance  |  |   |
| 118 | Other wash-ups   |  |   |
| 119 | <b>Wash-up costs</b>   |  | - |
| 120 |  |  |   |
| 121 | <b>Impact of wash-up costs on ROI</b>                                    |  | - |

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

### SCHEDULE 3: REPORT ON REGULATORY PROFIT

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

| 7 <b>3(i): Regulatory Profit</b> |  | (\$000)       |
|----------------------------------|--|---------------|
| 8                                | <b>Income</b>  |               |
| 9                                | Line charge revenue  | 37,176        |
| 10                               | plus Gains / (losses) on asset disposals   | 75            |
| 11                               | plus Other regulated income (other than gains / (losses) on asset disposals)                 | 768           |
| 12                               |  |               |
| 13                               | <b>Total regulatory income</b>   | <b>38,019</b> |
| 14                               | <b>Expenses</b>  |               |
| 15                               | less Operational expenditure   | 15,194        |
| 16                               |  |               |
| 17                               | less Pass-through and recoverable costs excluding financial incentives and wash-ups          | 8,252         |
| 18                               |  |               |
| 19                               | <b>Operating surplus / (deficit)</b>   | <b>14,573</b> |
| 20                               |  |               |
| 21                               | less Total depreciation  | 9,932         |
| 22                               |  |               |
| 23                               | plus Total revaluations  | 3,291         |
| 24                               |  |               |
| 25                               | <b>Regulatory profit / (loss) before tax</b>   | <b>7,932</b>  |
| 26                               |  |               |
| 27                               | less Term credit spread differential allowance   | -             |
| 28                               |  |               |
| 29                               | less Regulatory tax allowance  | 1,444         |
| 30                               |  |               |
| 31                               | <b>Regulatory profit/(loss) including financial incentives and wash-ups</b>                  | <b>6,487</b>  |
| 32                               |  |               |
| 33                               | <b>3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups</b> | (\$000)       |
| 34                               | <b>Pass through costs</b>  |               |
| 35                               | Rates  | 70            |
| 36                               | Commerce Act levies  | 61            |
| 37                               | Industry levies  | 87            |
| 38                               | CPP specified pass through costs   | -             |
| 39                               | <b>Recoverable costs excluding financial incentives and wash-ups</b>                         |               |
| 40                               | Electricity lines service charge payable to Transpower                                       | 7,387         |
| 41                               | Transpower new investment contract charges   | 443           |
| 42                               | System operator services   | -             |
| 43                               | Distributed generation allowance   | 204           |
| 44                               | Extended reserves allowance  | -             |
| 45                               | Other recoverable costs excluding financial incentives and wash-ups                          | -             |
| 46                               | <b>Pass-through and recoverable costs excluding financial incentives and wash-ups</b>        | <b>8,252</b>  |
| 47                               |  |               |



Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 3: REPORT ON REGULATORY PROFIT**

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

|    |   | (\$000)                            |   |
|----|---|------------------------------------|---|
|    |   | CY-1<br>31 Mar 18                  | CY<br>31 Mar 19   |
| 48 | <b>3(iii): Incremental Rolling Incentive Scheme</b>   |                                    |   |
| 49 |   |                                    |   |
| 50 |   |                                    |   |
| 51 | Allowed controllable opex   |                                    |   |
| 52 | Actual controllable opex  |                                    |   |
| 53 |   |                                    |   |
| 54 | Incremental change in year  |                                    |   |
| 55 |   |                                    |   |
|    |   | Previous years' incremental change | Previous years' incremental change adjusted for inflation |
| 56 |   |                                    |   |
| 57 | CY-5 31 Mar 14  |                                    |   |
| 58 | CY-4 31 Mar 15  |                                    |   |
| 59 | CY-3 31 Mar 16  |                                    |   |
| 60 | CY-2 31 Mar 17  |                                    |   |
| 61 | CY-1 31 Mar 18  |                                    |   |
| 62 | <b>Net incremental rolling incentive scheme</b>   |                                    | -   |
| 63 |   |                                    |   |
| 64 | <b>Net recoverable costs allowed under incremental rolling incentive scheme</b>   |                                    | -   |
| 65 | <b>3(iv): Merger and Acquisition Expenditure</b>  |                                    |   |
| 70 |   |                                    | (\$000)   |
| 66 | Merger and acquisition expenditure  |                                    | -   |
| 67 |   |                                    |   |
| 68 | <i>Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)</i> |                                    |   |
| 69 | <b>3(v): Other Disclosures</b>  |                                    |   |
| 70 |   |                                    | (\$000)   |
| 71 | Self-insurance allowance  |                                    | -   |

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)**

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

| 4(i): Regulatory Asset Base Value (Rolled Forward) |   | for year ended              |                             |                             |                             |                             |
|--|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
|  |   | RAB<br>31 Mar 15<br>(\$000) | RAB<br>31 Mar 16<br>(\$000) | RAB<br>31 Mar 17<br>(\$000) | RAB<br>31 Mar 18<br>(\$000) | RAB<br>31 Mar 19<br>(\$000) |
|  | Total opening RAB value                         | 215,025                     | 217,515                     | 221,244                     | 222,062                     | 222,453                     |
|  | less Total depreciation                         | 9,203                       | 9,495                       | 10,075                      | 9,804                       | 9,932                       |
|  | plus Total revaluations                         | 180                         | 1,276                       | 4,794                       | 2,443                       | 3,291                       |
|  | plus Assets commissioned                        | 11,814                      | 12,329                      | 6,868                       | 8,949                       | 9,297                       |
|  | less Asset disposals                            | 301                         | 381                         | 769                         | 1,197                       | 821                         |
|  | plus Lost and found assets adjustment           | -                           | -                           | -                           | -                           | -                           |
|  | plus Adjustment resulting from asset allocation | -                           | -                           | -                           | -                           | -                           |
|  | <b>Total closing RAB value</b>                  | <b>217,515</b>              | <b>221,244</b>              | <b>222,062</b>              | <b>222,453</b>              | <b>224,288</b>              |

| 4(ii): Unallocated Regulatory Asset Base |   | Unallocated RAB * |                | RAB     |                |
|--|---|-------------------|----------------|---------|----------------|
|  |   | (\$000)           | (\$000)        | (\$000) | (\$000)        |
|  | Total opening RAB value                         |                   | 222,453        |         | 222,453        |
|  | less Total depreciation                         |                   | 9,932          |         | 9,932          |
|  | plus Total revaluations                         |                   | 3,291          |         | 3,291          |
|  | plus Assets commissioned (other than below)     | 9,297             |                | 9,297   |                |
|  | Assets acquired from a regulated supplier       |                   |                |         |                |
|  | Assets acquired from a related party            |                   |                |         |                |
|  | <b>Assets commissioned</b>                      |                   | 9,297          |         | 9,297          |
|  | less Asset disposals (other than below)         | 821               |                | 821     |                |
|  | Asset disposals to a regulated supplier         |                   |                |         |                |
|  | Asset disposals to a related party              |                   |                |         |                |
|  | <b>Asset disposals</b>                          |                   | 821            |         | 821            |
|  | plus Lost and found assets adjustment           |                   | -              |         | -              |
|  | plus Adjustment resulting from asset allocation |                   |                |         | -              |
|  | <b>Total closing RAB value</b>                  |                   | <b>224,288</b> |         | <b>224,288</b> |

\* The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution services without any allowance being made for the allocation of costs to services provided by the supplier that are not electricity distribution services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includes works under construction.

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)**

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

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**4(iii): Calculation of Revaluation Rate and Revaluation of Assets**

|                      |       |
|----------------------|-------|
| CPI <sub>t</sub>     | 1,026 |
| CPI <sub>t-4</sub>   | 1,011 |
| Revaluation rate (%) | 1.48% |

|   | Unallocated RAB * |              | RAB     |              |
|---|-------------------|--------------|---------|--------------|
|   | (\$000)           | (\$000)      | (\$000) | (\$000)      |
| Total opening RAB value   | 222,453           |              | 222,453 |              |
| less Opening value of fully depreciated, disposed and lost assets | 663               |              | 663     |              |
| Total opening RAB value subject to revaluation                    | 221,790           |              | 221,790 |              |
| <b>Total revaluations</b>   |                   | <b>3,291</b> |         | <b>3,291</b> |

**4(iv): Roll Forward of Works Under Construction**

|   | Unallocated works under construction |              | Allocated works under construction |              |
|---|--------------------------------------|--------------|------------------------------------|--------------|
| <b>Works under construction—preceding disclosure year</b> |                                      | 4,249        |                                    | 4,249        |
| plus Capital expenditure                                  | 14,043                               |              | 14,043                             |              |
| less Assets commissioned                                  | 9,297                                |              | 9,297                              |              |
| plus Adjustment resulting from asset allocation           |                                      |              |                                    |              |
| <b>Works under construction - current disclosure year</b> |                                      | <b>8,996</b> |                                    | <b>8,996</b> |

Highest rate of capitalised finance applied -

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)**

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

76 **4(v): Regulatory Depreciation**

|    | Unallocated RAB *  |         | RAB     |         |
|----|--|---------|---------|---------|
|    | (\$000)  | (\$000) | (\$000) | (\$000) |
| 77 |  |         |         |         |
| 78 |  |         |         |         |
| 79 | Depreciation - standard  | 9,932   | 9,932   |         |
| 80 | Depreciation - no standard life assets                         |         |         |         |
| 81 | Depreciation - modified life assets                            |         |         |         |
| 82 | Depreciation - alternative depreciation in accordance with CPP |         |         |         |
| 83 | <b>Total depreciation</b>                                      |         | 9,932   | 9,932   |
| 84 |  |         |         |         |

85 **4(vi): Disclosure of Changes to Depreciation Profiles**

(\$000 unless otherwise specified)

| Asset or assets with changes to depreciation* | Reason for non-standard depreciation (text entry) | Depreciation charge for the period (RAB) | Closing RAB value under 'non-standard' depreciation | Closing RAB value under 'standard' depreciation |
|---|---|--|---|---|
| 86  |   |  |   |   |
| 87  |   |  |   |   |
| 88  |   |  |   |   |
| 89  |   |  |   |   |
| 90  |   |  |   |   |
| 91  |   |  |   |   |
| 92  |   |  |   |   |
| 93  |   |  |   |   |
| 94  |   |  |   |   |

\* include additional rows if needed

96 **4(vii): Disclosure by Asset Category**

(\$000 unless otherwise specified)

|     | Subtransmission lines                           | Subtransmission cables | Zone substations | Distribution and LV lines | Distribution and LV cables | Distribution substations and transformers | Distribution switchgear | Other network assets | Non-network assets | Total  |         |
|-----|---|------------------------|------------------|---------------------------|----------------------------|---|-------------------------|----------------------|--------------------|--------|---------|
| 98  |   |                        |                  |                           |                            |   |                         |                      |                    |        |         |
| 99  | <b>Total opening RAB value</b>                  | 20,664                 | 8,334            | 38,554                    | 48,473                     | 44,289                                    | 22,686                  | 16,492               | 7,745              | 15,216 | 222,453 |
| 100 | less Total depreciation                         | 655                    | 211              | 1,069                     | 2,163                      | 1,450                                     | 985                     | 846                  | 550                | 2,003  | 9,932   |
| 101 | plus Total revaluations                         | 306                    | 124              | 572                       | 716                        | 656                                       | 336                     | 240                  | 115                | 226    | 3,291   |
| 102 | plus Assets commissioned                        | 2,916                  | 487              | 976                       | 1,402                      | 255                                       | 460                     | 361                  | 360                | 2,079  | 9,297   |
| 103 | less Asset disposals                            | 19                     | 8                | -                         | 177                        | 74  | 28                      | 334                  | -                  | 181    | 821     |
| 104 | plus Lost and found assets adjustment           | -                      | -                | -                         | -                          | -   | -                       | -                    | -                  | -      | -       |
| 105 | plus Adjustment resulting from asset allocation | -                      | -                | -                         | -                          | -   | -                       | -                    | -                  | -      | -       |
| 106 | plus Asset category transfers                   | -                      | -                | -                         | -                          | -   | -                       | -                    | -                  | -      | -       |
| 107 | <b>Total closing RAB value</b>                  | 23,213                 | 8,727            | 39,033                    | 48,252                     | 43,675                                    | 22,470                  | 15,912               | 7,670              | 15,337 | 224,288 |
| 108 |   |                        |                  |                           |                            |   |                         |                      |                    |        |         |
| 109 | <b>Asset Life</b>                               |                        |                  |                           |                            |   |                         |                      |                    |        |         |
| 110 | Weighted average remaining asset life           | 45.5                   | 42.3             | 33.4                      | 39.0                       | 35.4                                      | 27.9                    | 25.8                 | 14.1               | 12.5   | (years) |
| 111 | Weighted average expected total asset life      | 52.2                   | 50.9             | 42.2                      | 55.7                       | 50.1                                      | 44.3                    | 38.7                 | 17.1               | 27.1   | (years) |

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE**

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 100.

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|    |  | (\$000) |       |
|----|--|---------|-------|
| 7  | <b>5a(i): Regulatory Tax Allowance</b>   |         |       |
| 8  | <b>Regulatory profit / (loss) before tax</b>   |         | 7,932 |
| 9  |  |         |       |
| 10 | <i>plus</i> Income not included in regulatory profit / (loss) before tax but taxable | -       | *     |
| 11 | Expenditure or loss in regulatory profit / (loss) before tax but not deductible      | 63      | *     |
| 12 | Amortisation of initial differences in asset values                                  | 3,378   |       |
| 13 | Amortisation of revaluations   | 971     |       |
| 14 |  |         | 4,412 |
| 15 |  |         |       |
| 16 | <i>less</i> Total revaluations   | 3,291   |       |
| 17 | Income included in regulatory profit / (loss) before tax but not taxable             | -       | *     |
| 18 | Discretionary discounts and customer rebates   | -       | *     |
| 19 | Expenditure or loss deductible but not in regulatory profit / (loss) before tax      | -       | *     |
| 20 | Notional deductible interest   | 3,895   |       |
| 21 |  |         | 7,185 |
| 22 |  |         |       |
| 23 | <b>Regulatory taxable income</b>   |         | 5,158 |
| 24 |  |         |       |
| 25 | <i>less</i> Utilised tax losses  | -       |       |
| 26 | Regulatory net taxable income  |         | 5,158 |
| 27 |  |         |       |
| 28 | Corporate tax rate (%)   | 28%     |       |
| 29 | <b>Regulatory tax allowance</b>  |         | 1,444 |

\* Workings to be provided in Schedule 14

**5a(ii): Disclosure of Permanent Differences**

In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).

**5a(iii): Amortisation of Initial Difference in Asset Values**

(\$000)

|    |   |        |        |
|----|---|--------|--------|
| 35 |   |        |        |
| 36 | Opening unamortised initial differences in asset values                       | 99,988 |        |
| 37 | <i>less</i> Amortisation of initial differences in asset values               | 3,378  |        |
| 38 | <i>plus</i> Adjustment for unamortised initial differences in assets acquired | -      |        |
| 39 | <i>less</i> Adjustment for unamortised initial differences in assets disposed | 532    |        |
| 40 | Closing unamortised initial differences in asset values                       |        | 96,078 |
| 41 |   |        |        |
| 42 | Opening weighted average remaining useful life of relevant assets (years)     |        | 30     |
| 43 |   |        |        |

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE**

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section

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|    |  |         |         |
|----|--|---------|---------|
| 44 | <b>5a(iv): Amortisation of Revaluations</b>  |         | (\$000) |
| 45 |  |         |         |
| 46 | Opening sum of RAB values without revaluations   | 205,104 |         |
| 47 |  |         |         |
| 48 | Adjusted depreciation  | 8,961   |         |
| 49 | Total depreciation   | 9,932   |         |
| 50 | Amortisation of revaluations   |         | 971     |
| 51 |  |         |         |
| 52 | <b>5a(v): Reconciliation of Tax Losses</b>   |         | (\$000) |
| 53 |  |         |         |
| 54 | Opening tax losses   | -       |         |
| 55 | plus Current period tax losses   | -       |         |
| 56 | less Utilised tax losses   | -       |         |
| 57 | Closing tax losses   |         | -       |
| 58 | <b>5a(vi): Calculation of Deferred Tax Balance</b>   |         | (\$000) |
| 59 |  |         |         |
| 60 | Opening deferred tax   | (3,717) |         |
| 61 |  |         |         |
| 62 | plus Tax effect of adjusted depreciation   | 2,509   |         |
| 63 |  |         |         |
| 64 | less Tax effect of tax depreciation  | 1,984   |         |
| 65 |  |         |         |
| 66 | plus Tax effect of other temporary differences*  | (106)   |         |
| 67 |  |         |         |
| 68 | less Tax effect of amortisation of initial differences in asset values   | 946     |         |
| 69 |  |         |         |
| 70 | plus Deferred tax balance relating to assets acquired in the disclosure year   | -       |         |
| 71 |  |         |         |
| 72 | less Deferred tax balance relating to assets disposed in the disclosure year   | (168)   |         |
| 73 |  |         |         |
| 74 | plus Deferred tax cost allocation adjustment   | -       |         |
| 75 |  |         |         |
| 76 | Closing deferred tax   |         | (4,076) |
| 77 |  |         |         |
| 78 | <b>5a(vii): Disclosure of Temporary Differences</b>  |         |         |
| 79 | <i>In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).</i> |         |         |
| 80 |  |         |         |
| 81 | <b>5a(viii): Regulatory Tax Asset Base Roll-Forward</b>  |         |         |
| 82 |  |         | (\$000) |
| 83 | Opening sum of regulatory tax asset values   | 77,957  |         |
| 84 | less Tax depreciation  | 7,086   |         |
| 85 | plus Regulatory tax asset value of assets commissioned   | 8,626   |         |
| 86 | less Regulatory tax asset value of asset disposals   | 222     |         |
| 87 | plus Lost and found assets adjustment  | -       |         |
| 88 | plus Adjustment resulting from asset allocation  | -       |         |
| 89 | plus Other adjustments to the RAB tax value  | -       |         |
| 90 | Closing sum of regulatory tax asset values   |         | 79,275  |

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS**

This schedule provides information on the valuation of related party transactions, in accordance with clause 2.3.6 of the ID determination.  
 This information is part of audited disclosure information (as defined in clause 1.4 of the ID determination), and so is subject to the assurance report required by clause 2.8.

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|   | (\$000) | (\$000) |
|---|---------|---------|
| <b>5b(i): Summary—Related Party Transactions</b>  |         |         |
| <b>Total regulatory income</b>                    |         | -       |
| <b>Market value of asset disposals</b>            |         | -       |
| Service interruptions and emergencies             | -       |         |
| Vegetation management                             | -       |         |
| Routine and corrective maintenance and inspection | 29      |         |
| Asset replacement and renewal (opex)              | -       |         |
| <b>Network opex</b>                               |         | 29      |
| Business support                                  | 28      |         |
| System operations and network support             | -       |         |
| <b>Operational expenditure</b>                    |         | 57      |
| Consumer connection                               | -       |         |
| System growth                                     | -       |         |
| Asset replacement and renewal (capex)             | 6       |         |
| Asset relocations                                 | -       |         |
| Quality of supply                                 | -       |         |
| Legislative and regulatory                        | -       |         |
| Other reliability, safety and environment         | 7       |         |
| <b>Expenditure on non-network assets</b>          |         | 38      |
| <b>Expenditure on assets</b>                      |         | 51      |
| Cost of financing                                 |         |         |
| Value of capital contributions                    |         |         |
| Value of vested assets                            |         |         |
| <b>Capital Expenditure</b>                        |         | 51      |
| <b>Total expenditure</b>                          |         | 108     |
| <b>Other related party transactions</b>           |         |         |

**5b(iii): Total Opex and Capex Related Party Transactions**

| Name of related party  | Nature of opex or capex service provided          | Total value of transactions (\$000) |
|--|---|-------------------------------------|
| Cuddon Ltd (Common director)   | Expenditure on non-network assets                 | 10                                  |
| Cuddon Ltd (Common director)   | Business support                                  | 7                                   |
| Cuddon Ltd (Common director)   | Routine and corrective maintenance and inspection | 19                                  |
| Yealands Estate Wines Ltd (Subsidiary)   | Business support                                  | 14                                  |
| Precast Systems (Common director)  | Routine and corrective maintenance and inspection | 7                                   |
| director)  | Other reliability, safety and environment         | 6                                   |
| director)  | Business support                                  | 5                                   |
| Scaffold Marlborough Ltd (Common director)                                       | Other reliability, safety and environment         | 1                                   |
| Construction Coatings (Common director)  | Expenditure on non-network assets                 | 28                                  |
| Construction Coatings (Common director)  | Asset replacement and renewal (capex)             | 6                                   |
| Construction Coatings (Common director)  | Business support                                  | 2                                   |
| Construction Coatings (Common director)  | Routine and corrective maintenance and inspection | 3                                   |
| We have not repeated the Key Management  |   |                                     |
| Personal disclosures from the 30 June financial statements in these disclosures. |   |                                     |
|  |   |                                     |
|  |   |                                     |
|  |   |                                     |
| <b>Total value of related party transactions</b>                                 |   | 108                                 |

\* include additional rows if needed

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE**

This schedule is only to be completed if, as at the date of the most recently published financial statements, the weighted average original tenor of the debt portfolio (both qualifying debt and non-qualifying debt) is greater than five years. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

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**5c(i): Qualifying Debt (may be Commission only)**

| Issuing party                       | Issue date | Pricing date | Original tenor (in years) | Coupon rate (%) | Book value at issue date (NZD) | Book value at date of financial statements (NZD) | Term Credit Spread Difference | Debt issue cost readjustment |
|-------------------------------------|------------|--------------|---------------------------|-----------------|--------------------------------|--|-------------------------------|------------------------------|
|                                     |            |              |                           |                 |                                |  |                               |                              |
|                                     |            |              |                           |                 |                                |  |                               |                              |
|                                     |            |              |                           |                 |                                |  |                               |                              |
|                                     |            |              |                           |                 |                                |  |                               |                              |
| * include additional rows if needed |            |              |                           |                 |                                | -  | -                             | -                            |

**5c(ii): Attribution of Term Credit Spread Differential**

|  |  |  |     |  |  |   |
|--|--|--|-----|--|--|---|
| <b>Gross term credit spread differential</b>     |  |  |     |  |  | - |
| Total book value of interest bearing debt        |  |  |     |  |  |   |
| Leverage   |  |  | 42% |  |  |   |
| Average opening and closing RAB values           |  |  |     |  |  |   |
| <b>Attribution Rate (%)</b>                      |  |  |     |  |  | - |
| <b>Term credit spread differential allowance</b> |  |  |     |  |  | - |



Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 5d: REPORT ON COST ALLOCATIONS**

This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

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|    |  | Value allocated (\$000s) |                                   |                                       |       |                                     |
|----|--|--------------------------|-----------------------------------|---------------------------------------|-------|-------------------------------------|
|    |  | Arm's length deduction   | Electricity distribution services | Non-electricity distribution services | Total | OVABAA allocation increase (\$000s) |
| 7  | <b>5d(i): Operating Cost Allocations</b>                 |                          |                                   |                                       |       |                                     |
| 8  |  |                          |                                   |                                       |       |                                     |
| 9  |  |                          |                                   |                                       |       |                                     |
| 10 | <b>Service interruptions and emergencies</b>             |                          |                                   |                                       |       |                                     |
| 11 | Directly attributable                                    |                          | 863                               |                                       |       |                                     |
| 12 | Not directly attributable                                |                          | 88                                |                                       | 88    |                                     |
| 13 | <b>Total attributable to regulated service</b>           |                          | 951                               |                                       |       |                                     |
| 14 | <b>Vegetation management</b>                             |                          |                                   |                                       |       |                                     |
| 15 | Directly attributable                                    |                          | 2,118                             |                                       |       |                                     |
| 16 | Not directly attributable                                |                          | 184                               |                                       | 184   |                                     |
| 17 | <b>Total attributable to regulated service</b>           |                          | 2,302                             |                                       |       |                                     |
| 18 | <b>Routine and corrective maintenance and inspection</b> |                          |                                   |                                       |       |                                     |
| 19 | Directly attributable                                    |                          | 2,837                             |                                       |       |                                     |
| 20 | Not directly attributable                                |                          | 212                               |                                       | 212   |                                     |
| 21 | <b>Total attributable to regulated service</b>           |                          | 3,049                             |                                       |       |                                     |
| 22 | <b>Asset replacement and renewal</b>                     |                          |                                   |                                       |       |                                     |
| 23 | Directly attributable                                    |                          | 856                               |                                       |       |                                     |
| 24 | Not directly attributable                                |                          | 73                                |                                       | 73    |                                     |
| 25 | <b>Total attributable to regulated service</b>           |                          | 929                               |                                       |       |                                     |
| 26 | <b>System operations and network support</b>             |                          |                                   |                                       |       |                                     |
| 27 | Directly attributable                                    |                          | 3,895                             |                                       |       |                                     |
| 28 | Not directly attributable                                |                          | 97                                |                                       | 97    |                                     |
| 29 | <b>Total attributable to regulated service</b>           |                          | 3,992                             |                                       |       |                                     |
| 30 | <b>Business support</b>                                  |                          |                                   |                                       |       |                                     |
| 31 | Directly attributable                                    |                          | 3,971                             |                                       |       |                                     |
| 32 | Not directly attributable                                |                          |                                   |                                       | -     |                                     |
| 33 | <b>Total attributable to regulated service</b>           |                          | 3,971                             |                                       |       |                                     |
| 34 |  |                          |                                   |                                       |       |                                     |
| 35 | <b>Operating costs directly attributable</b>             |                          | 14,540                            |                                       |       |                                     |
| 36 | <b>Operating costs not directly attributable</b>         | -                        | 654                               | -                                     | 654   | -                                   |
| 37 | <b>Operational expenditure</b>                           |                          | 15,194                            |                                       |       |                                     |
| 38 |  |                          |                                   |                                       |       |                                     |

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 5d: REPORT ON COST ALLOCATIONS**

This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

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39 **5d(ii): Other Cost Allocations**

|    |  | (\$000) |
|----|--|---------|
| 40 | <b>Pass through and recoverable costs</b>      |         |
| 41 | <b>Pass through costs</b>                      |         |
| 42 | Directly attributable                          | 218     |
| 43 | Not directly attributable                      |         |
| 44 | <b>Total attributable to regulated service</b> | 218     |
| 45 | <b>Recoverable costs</b>                       |         |
| 46 | Directly attributable                          | 8,034   |
| 47 | Not directly attributable                      |         |
| 48 | <b>Total attributable to regulated service</b> | 8,034   |

50 **5d(iii): Changes in Cost Allocations\* †**

|    |                                    | (\$000) |                   |
|----|------------------------------------|---------|-------------------|
|    |                                    | CY-1    | Current Year (CY) |
| 52 | <b>Change in cost allocation 1</b> |         |                   |
| 53 | Cost category                      |         |                   |
| 54 | Original allocator or line items   |         |                   |
| 55 | New allocator or line items        |         |                   |
| 56 |                                    |         |                   |
| 57 | Rationale for change               |         |                   |
| 58 |                                    |         |                   |
| 59 |                                    |         |                   |

|    |                                    | (\$000) |                   |
|----|------------------------------------|---------|-------------------|
|    |                                    | CY-1    | Current Year (CY) |
| 61 | <b>Change in cost allocation 2</b> |         |                   |
| 62 | Cost category                      |         |                   |
| 63 | Original allocator or line items   |         |                   |
| 64 | New allocator or line items        |         |                   |
| 65 |                                    |         |                   |
| 66 | Rationale for change               |         |                   |
| 67 |                                    |         |                   |
| 68 |                                    |         |                   |

|    |                                    | (\$000) |                   |
|----|------------------------------------|---------|-------------------|
|    |                                    | CY-1    | Current Year (CY) |
| 70 | <b>Change in cost allocation 3</b> |         |                   |
| 71 | Cost category                      |         |                   |
| 72 | Original allocator or line items   |         |                   |
| 73 | New allocator or line items        |         |                   |
| 74 |                                    |         |                   |
| 75 | Rationale for change               |         |                   |
| 76 |                                    |         |                   |
| 77 |                                    |         |                   |

78 \* a change in cost allocation must be completed for each cost allocator change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.  
 79 † include additional rows if needed

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS**

This schedule requires information on the allocation of asset values. This information supports the calculation of the RAB value in Schedule 4. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any changes in asset allocations. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

**5e(i): Regulated Service Asset Values**

|  |  | Value allocated<br>(\$000s)       |
|--|--|-----------------------------------|
|  |  | Electricity distribution services |
| <b>Subtransmission lines</b>                     |  |                                   |
|  | Directly attributable  | 23,213                            |
|  | Not directly attributable                                      |                                   |
|  | <b>Total attributable to regulated service</b>                 | 23,213                            |
| <b>Subtransmission cables</b>                    |  |                                   |
|  | Directly attributable  | 8,727                             |
|  | Not directly attributable                                      |                                   |
|  | <b>Total attributable to regulated service</b>                 | 8,727                             |
| <b>Zone substations</b>                          |  |                                   |
|  | Directly attributable  | 39,033                            |
|  | Not directly attributable                                      |                                   |
|  | <b>Total attributable to regulated service</b>                 | 39,033                            |
| <b>Distribution and LV lines</b>                 |  |                                   |
|  | Directly attributable  | 48,252                            |
|  | Not directly attributable                                      |                                   |
|  | <b>Total attributable to regulated service</b>                 | 48,252                            |
| <b>Distribution and LV cables</b>                |  |                                   |
|  | Directly attributable  | 43,675                            |
|  | Not directly attributable                                      |                                   |
|  | <b>Total attributable to regulated service</b>                 | 43,675                            |
| <b>Distribution substations and transformers</b> |  |                                   |
|  | Directly attributable  | 22,470                            |
|  | Not directly attributable                                      |                                   |
|  | <b>Total attributable to regulated service</b>                 | 22,470                            |
| <b>Distribution switchgear</b>                   |  |                                   |
|  | Directly attributable  | 15,912                            |
|  | Not directly attributable                                      |                                   |
|  | <b>Total attributable to regulated service</b>                 | 15,912                            |
| <b>Other network assets</b>                      |  |                                   |
|  | Directly attributable  | 7,670                             |
|  | Not directly attributable                                      |                                   |
|  | <b>Total attributable to regulated service</b>                 | 7,670                             |
| <b>Non-network assets</b>                        |  |                                   |
|  | Directly attributable  | 15,337                            |
|  | Not directly attributable                                      |                                   |
|  | <b>Total attributable to regulated service</b>                 | 15,337                            |
|  | <b>Regulated service asset value directly attributable</b>     | 224,288                           |
|  | <b>Regulated service asset value not directly attributable</b> | -                                 |
|  | <b>Total closing RAB value</b>                                 | 224,288                           |

**5e(ii): Changes in Asset Allocations\* †**

|   |  | (\$000)             |                   |
|---|--|---------------------|-------------------|
|   |  | CY-1                | Current Year (CY) |
| <b>Change in asset value allocation 1</b> |  |                     |                   |
| Asset category                            |  | Original allocation |                   |
| Original allocator or line items          |  | New allocation      |                   |
| New allocator or line items               |  | Difference          | -                 |
| Rationale for change                      |  |                     |                   |
| <b>Change in asset value allocation 2</b> |  |                     |                   |
| Asset category                            |  | Original allocation |                   |
| Original allocator or line items          |  | New allocation      |                   |
| New allocator or line items               |  | Difference          | -                 |
| Rationale for change                      |  |                     |                   |
| <b>Change in asset value allocation 3</b> |  |                     |                   |
| Asset category                            |  | Original allocation |                   |
| Original allocator or line items          |  | New allocation      |                   |
| New allocator or line items               |  | Difference          | -                 |
| Rationale for change                      |  |                     |                   |

\* a change in asset allocation must be completed for each allocator or component change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or compone  
 † include additional rows if needed

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR**

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

|    |  | (\$000)       | (\$000)                       |
|----|--|---------------|-------------------------------|
| 7  | <b>6a(i): Expenditure on Assets</b>  |               |                               |
| 8  | Consumer connection  |               | 144                           |
| 9  | System growth  |               | 358                           |
| 10 | Asset replacement and renewal  |               | 6,479                         |
| 11 | Asset relocations  |               | 131                           |
| 12 | Reliability, safety and environment:   |               |                               |
| 13 | Quality of supply  | 558           |                               |
| 14 | Legislative and regulatory   | -             |                               |
| 15 | Other reliability, safety and environment  | 4,459         |                               |
| 16 | <b>Total reliability, safety and environment</b>                                   |               | 5,017                         |
| 17 | <b>Expenditure on network assets</b>   |               | 12,129                        |
| 18 | Expenditure on non-network assets  |               | 1,986                         |
| 19 |  |               |                               |
| 20 | <b>Expenditure on assets</b>   |               | 14,115                        |
| 21 | plus Cost of financing   |               | -                             |
| 22 | less Value of capital contributions  |               | 72                            |
| 23 | plus Value of vested assets  |               | -                             |
| 24 |  |               |                               |
| 25 | <b>Capital expenditure</b>   |               | 14,043                        |
| 26 | <b>6a(ii): Subcomponents of Expenditure on Assets (where known)</b>                |               | (\$000)                       |
| 27 | Energy efficiency and demand side management, reduction of energy losses           |               | n/a                           |
| 28 | Overhead to underground conversion   |               | n/a                           |
| 29 | Research and development   |               | n/a                           |
| 30 | <b>6a(iii): Consumer Connection</b>  |               |                               |
| 31 | <i>Consumer types defined by EDB*</i>  | (\$000)       | (\$000)                       |
| 32 | Residential  | 58            |                               |
| 33 | Commercial   | 84            |                               |
| 34 | General  | 1             |                               |
| 35 |  |               |                               |
| 36 |  |               |                               |
| 37 | <i>* include additional rows if needed</i>   |               |                               |
| 38 | <b>Consumer connection expenditure</b>   |               | 144                           |
| 39 |  |               |                               |
| 40 | less Capital contributions funding consumer connection expenditure                 | 72            |                               |
| 41 | <b>Consumer connection less capital contributions</b>                              |               | 72                            |
| 42 | <b>6a(iv): System Growth and Asset Replacement and Renewal</b>                     |               |                               |
| 43 |  | System Growth | Asset Replacement and Renewal |
| 44 |  | (\$000)       | (\$000)                       |
| 45 | Subtransmission  |               | 3,223                         |
| 46 | Zone substations   |               | 1,027                         |
| 47 | Distribution and LV lines  |               | 604                           |
| 48 | Distribution and LV cables   | 43            | 1,281                         |
| 49 | Distribution substations and transformers  | 315           | 62                            |
| 50 | Distribution switchgear  |               | 121                           |
| 51 | Other network assets   |               | 160                           |
| 52 | <b>System growth and asset replacement and renewal expenditure</b>                 | 358           | 6,479                         |
| 53 | less Capital contributions funding system growth and asset replacement and renewal | -             | -                             |
| 54 | <b>System growth and asset replacement and renewal less capital contributions</b>  | 358           | 6,479                         |
| 55 |  |               |                               |
| 56 | <b>6a(v): Asset Relocations</b>  |               |                               |
| 57 | <i>Project or programme*</i>   | (\$000)       | (\$000)                       |
| 58 | Roading  | 120           |                               |
| 59 |  |               |                               |
| 60 |  |               |                               |
| 61 |  |               |                               |
| 62 |  |               |                               |
| 63 | <i>* include additional rows if needed</i>   |               |                               |
| 64 | All other projects or programmes - asset relocations                               | 11            |                               |
| 65 | <b>Asset relocations expenditure</b>   |               | 131                           |
| 66 | less Capital contributions funding asset relocations                               | -             |                               |
| 67 | <b>Asset relocations less capital contributions</b>                                |               | 131                           |

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR**

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

|     |  |  |         |         |
|-----|--|--|---------|---------|
| 68  |  |  |         |         |
| 69  | <b>6a(vi): Quality of Supply</b>   |  |         |         |
| 70  | <i>Project or programme*</i>   |  | (\$000) | (\$000) |
| 71  | SCADA  |  | 19      |         |
| 72  | Network Automation   |  | 68      |         |
| 73  | Generators   |  | 7       |         |
| 74  | Digital Radio Network  |  | 126     |         |
| 75  |  |  |         |         |
| 76  | <i>* include additional rows if needed</i>                                   |  |         |         |
| 77  | All other projects programmes - quality of supply                            |  | 338     |         |
| 78  | <b>Quality of supply expenditure</b>   |  |         | 558     |
| 79  | less Capital contributions funding quality of supply                         |  | -       |         |
| 80  | <b>Quality of supply less capital contributions</b>                          |  |         | 558     |
| 81  | <b>6a(vii): Legislative and Regulatory</b>                                   |  |         |         |
| 82  | <i>Project or programme*</i>   |  | (\$000) | (\$000) |
| 83  | n/a  |  | -       |         |
| 84  |  |  |         |         |
| 85  |  |  |         |         |
| 86  |  |  |         |         |
| 87  |  |  |         |         |
| 88  | <i>* include additional rows if needed</i>                                   |  |         |         |
| 89  | All other projects or programmes - legislative and regulatory                |  |         |         |
| 90  | <b>Legislative and regulatory expenditure</b>                                |  |         | -       |
| 91  | less Capital contributions funding legislative and regulatory                |  |         |         |
| 92  | <b>Legislative and regulatory less capital contributions</b>                 |  |         | -       |
| 93  | <b>6a(viii): Other Reliability, Safety and Environment</b>                   |  |         |         |
| 94  | <i>Project or programme*</i>   |  | (\$000) | (\$000) |
| 95  | Renwick Zone Substation  |  | 3,554   |         |
| 96  | Earthing (NERs and Resonant)   |  | 314     |         |
| 97  | Tee Joint Removal  |  | 12      |         |
| 98  | Digital Radio Network  |  | 12      |         |
| 99  | SCADA  |  | -       |         |
| 100 | <i>* include additional rows if needed</i>                                   |  |         |         |
| 101 | All other projects or programmes - other reliability, safety and environment |  | 567     |         |
| 102 | <b>Other reliability, safety and environment expenditure</b>                 |  |         | 4,459   |
| 103 | less Capital contributions funding other reliability, safety and environment |  | -       |         |
| 104 | <b>Other reliability, safety and environment less capital contributions</b>  |  |         | 4,459   |
| 105 |  |  |         |         |
| 106 | <b>6a(ix): Non-Network Assets</b>  |  |         |         |
| 107 | <b>Routine expenditure</b>   |  |         |         |
| 108 | <i>Project or programme*</i>   |  | (\$000) | (\$000) |
| 109 | Test Equipment   |  | 57      |         |
| 110 | Plant and Tools  |  | 145     |         |
| 111 | Vehicles   |  | 960     |         |
|     | Radio Equipment  |  | -       |         |
|     | Office Furniture & Equipment   |  | 116     |         |
| 112 | Land and Buildings   |  | 247     |         |
|     | IT Computers   |  | 362     |         |
|     | Software   |  | 99      |         |
| 114 | <i>* include additional rows if needed</i>                                   |  |         |         |
| 115 | All other projects or programmes - routine expenditure                       |  | -       |         |
| 116 | <b>Routine expenditure</b>   |  |         | 1,986   |
| 117 | <b>Atypical expenditure</b>  |  |         |         |
| 118 | <i>Project or programme*</i>   |  | (\$000) | (\$000) |
| 119 | n/a  |  | -       |         |
| 120 |  |  |         |         |
| 121 |  |  |         |         |
| 122 |  |  |         |         |
| 123 |  |  |         |         |
| 124 | <i>* include additional rows if needed</i>                                   |  |         |         |
| 125 | All other projects or programmes - atypical expenditure                      |  |         |         |
| 126 | <b>Atypical expenditure</b>  |  |         | -       |
| 127 |  |  |         |         |
| 128 | <b>Expenditure on non-network assets</b>                                     |  |         | 1,986   |

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR**

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

*sch ref*

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

### SCHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of operational expenditure incurred in the disclosure year.

EDBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operational expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance.

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

*sch ref*

|    |  | (\$000) | (\$000) |
|----|--|---------|---------|
| 7  | <b>6b(i): Operational Expenditure</b>  |         |         |
| 8  | Service interruptions and emergencies  | 951     |         |
| 9  | Vegetation management  | 2,302   |         |
| 10 | Routine and corrective maintenance and inspection  | 3,049   |         |
| 11 | Asset replacement and renewal  | 929     |         |
| 12 | <b>Network opex</b>  |         | 7,231   |
| 13 | System operations and network support  | 3,992   |         |
| 14 | Business support   | 3,971   |         |
| 15 | <b>Non-network opex</b>  |         | 7,963   |
| 16 |  |         |         |
| 17 | <b>Operational expenditure</b>   |         | 15,194  |
| 18 | <b>6b(ii): Subcomponents of Operational Expenditure (where known)</b>                        |         |         |
| 19 | Energy efficiency and demand side management, reduction of energy losses                     |         | N/A     |
| 20 | Direct billing*  |         | N/A     |
| 21 | Research and development   |         | N/A     |
| 22 | Insurance  |         | 329     |
| 23 | * Direct billing expenditure by suppliers that directly bill the majority of their consumers |         |         |

|                |                                  |
|----------------|----------------------------------|
| Company Name   | <b>Marlborough Lines Limited</b> |
| For Year Ended | <b>31 March 2019</b>             |

## SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

This schedule compares actual revenue and expenditure to the previous forecasts that were made for the disclosure year. Accordingly, this schedule requires the forecast revenue and expenditure information from previous disclosures to be inserted.

EDBs must provide explanatory comment on the variance between actual and target revenue and forecast expenditure in Schedule 14 (Mandatory Explanatory Notes). This information is part of the audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need to be verified back to previous disclosures.

sch ref

| 7  | <b>7(i): Revenue</b>   | Target (\$000) <sup>1</sup>   | Actual (\$000) | % variance |
|----|--|-------------------------------|----------------|------------|
| 8  | Line charge revenue  | 36,556                        | 37,176         | 2%         |
| 9  | <b>7(ii): Expenditure on Assets</b>                                      | Forecast (\$000) <sup>2</sup> | Actual (\$000) | % variance |
| 10 | Consumer connection  | 204                           | 144            | (29%)      |
| 11 | System growth  | 204                           | 358            | 76%        |
| 12 | Asset replacement and renewal  | 5,358                         | 6,479          | 21%        |
| 13 | Asset relocations  | 255                           | 131            | (49%)      |
| 14 | Reliability, safety and environment:                                     |                               |                |            |
| 15 | Quality of supply  | 510                           | 558            | 9%         |
| 16 | Legislative and regulatory   | –                             | –              | –          |
| 17 | Other reliability, safety and environment                                | 3,929                         | 4,459          | 13%        |
| 18 | <b>Total reliability, safety and environment</b>                         | 4,439                         | 5,017          | 13%        |
| 19 | <b>Expenditure on network assets</b>                                     | 10,460                        | 12,129         | 16%        |
| 20 | Expenditure on non-network assets  | 1,490                         | 1,986          | 33%        |
| 21 | Expenditure on assets  | 11,950                        | 14,115         | 18%        |
| 22 | <b>7(iii): Operational Expenditure</b>                                   |                               |                |            |
| 23 | Service interruptions and emergencies                                    | 918                           | 951            | 4%         |
| 24 | Vegetation management  | 1,990                         | 2,302          | 16%        |
| 25 | Routine and corrective maintenance and inspection                        | 2,653                         | 3,049          | 15%        |
| 26 | Asset replacement and renewal  | 714                           | 929            | 30%        |
| 27 | <b>Network opex</b>  | 6,275                         | 7,231          | 15%        |
| 28 | System operations and network support                                    | 4,082                         | 3,992          | (2%)       |
| 29 | Business support   | 4,082                         | 3,971          | (3%)       |
| 30 | <b>Non-network opex</b>  | 8,164                         | 7,963          | (2%)       |
| 31 | <b>Operational expenditure</b>   | 14,439                        | 15,194         | 5%         |
| 32 | <b>7(iv): Subcomponents of Expenditure on Assets (where known)</b>       |                               |                |            |
| 33 | Energy efficiency and demand side management, reduction of energy losses | –                             | n/a            | –          |
| 34 | Overhead to underground conversion                                       | –                             | n/a            | –          |
| 35 | Research and development   | –                             | n/a            | –          |
| 36 |  |                               |                |            |
| 37 | <b>7(v): Subcomponents of Operational Expenditure (where known)</b>      |                               |                |            |
| 38 | Energy efficiency and demand side management, reduction of energy losses | N/A                           | N/A            | –          |
| 39 | Direct billing   | N/A                           | N/A            | –          |
| 40 | Research and development   | N/A                           | N/A            | –          |
| 41 | Insurance  | 325                           | 329            | 1%         |

<sup>1</sup> From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination

<sup>2</sup> From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)





Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**  
 Network / Sub-Network Name

**SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES**

This schedule requires the billed quantities and associated line charge revenues for each price category code used by the EDB in its pricing schedules. Information is also required on the number of ICPs that are included in each consumer group or price category code, and the energy delivered to these ICPs.

**8(ii): Line Charge Revenues (\$000) by Price Component**

Line charge revenues (\$000) by price component

| Consumer group name or price category code | Consumer type or types (eg, residential, commercial etc.) | Standard or non-standard consumer group (specify) | Total line charge revenue in disclosure year | Notional revenue foregone from posted discounts (if applicable) | Total distribution line charge revenue | Total transmission line charge revenue (if available) | Rate (eg, \$ per day, \$ per kWh, etc.) | Price component             |                          |                         |                        |                       |           |             |           |           |                 |              |                   |                |       |       |  |
|--|---|---|--|---|--|---|---|-----------------------------|--------------------------|-------------------------|------------------------|-----------------------|-----------|-------------|-----------|-----------|-----------------|--------------|-------------------|----------------|-------|-------|--|
|  |   |   |  |   |  |   |   | 10,23,31,40,11 uncontrolled | 12,16,22 13hr controlled | 17,18,28 8hr controlled | 00 Embedded generation | 20,30 20hr controlled | 51,61 Day | 50,62 Night | 96 Summer | 97 Winter | 80 Streetlights | Fixed Charge | ALAM, AH Capacity | WL, WM, WH RPD |       |       |  |
| Residential                                | Standard  |   | \$16,791                                     | 3,597   | 16,791                                 | -   |   | 8,773                       | 1,956                    | 95                      | -                      | -                     | -         | -           | -         | -         | -               | -            | -                 | 5,966          | -     | -     |  |
| General (small commercial)                 | Standard  |   | \$8,795                                      | 1,943   | 8,937                                  | -   |   | 4,637                       | 76                       | 5                       | -                      | 5                     | -         | -           | -         | -         | -               | -            | -                 | 4,073          | -     | -     |  |
| Commercial & Industrial                    | Standard  |   | \$9,706                                      | 2,582   | 9,804                                  | -   |   | -                           | -                        | -                       | -                      | 2,004                 | 150       | -           | -         | -         | -               | -            | -                 | 444            | 5,334 | 1,775 |  |
| Irrigation                                 | Standard  |   | \$1,349                                      | 247   | 1,349                                  | -   |   | -                           | -                        | -                       | -                      | -                     | -         | 453         | -         | -         | -               | -            | -                 | 896            | -     | -     |  |
| Streetlights and other                     | Standard  |   | \$461  | 44  | 221                                    | -   |   | -                           | -                        | -                       | -                      | -                     | -         | -           | -         | -         | -               | 12           | -                 | 209            | -     | 240   |  |
| Generation                                 | Standard  |   | \$6  | -   | 6                                      | -   |   | -                           | -                        | 6                       | -                      | -                     | -         | -           | -         | -         | -               | -            | -                 | -              | -     | -     |  |
| Generation                                 | Non-standard  |   | \$69   | -   | 69                                     | -   |   | -                           | -                        | -                       | -                      | -                     | -         | -           | -         | -         | -               | -            | -                 | 69             | -     | -     |  |
|  |   |   |  |   |  |   |   |                             |                          |                         |                        |                       |           |             |           |           |                 |              |                   |                |       |       |  |
|  |   |   |  |   |  |   |   |                             |                          |                         |                        |                       |           |             |           |           |                 |              |                   |                |       |       |  |
| Standard consumer totals                   |   |   | \$37,107                                     | \$8,412   | \$37,107                               | -   |   | \$13,409                    | \$2,032                  | \$100                   | \$6                    | \$5                   | \$2,004   | \$150       | \$453     | -         | \$12            | \$11,588     | \$5,334           | \$2,015        |       |       |  |
| Non-standard consumer totals               |   |   | \$69   | -   | \$69                                   | -   |   | -                           | -                        | -                       | -                      | -                     | -         | -           | -         | -         | -               | -            | \$69              | -              | -     |       |  |
| Total for all consumers                    |   |   | \$37,176                                     | \$8,412   | \$37,176                               | -   |   | \$13,409                    | \$2,032                  | \$100                   | \$6                    | \$5                   | \$2,004   | \$150       | \$453     | -         | \$12            | \$11,657     | \$5,334           | \$2,015        |       |       |  |

Add extra rows for additional consumer groups or price category codes as necessary

**8(iii): Number of ICPs directly billed**

Number of directly billed ICPs at year end

Check  OK

|                            |                                  |
|----------------------------|----------------------------------|
| Company Name               | <b>Marlborough Lines Limited</b> |
| For Year Ended             | <b>31 March 2019</b>             |
| Network / Sub-network Name |                                  |

**SCHEDULE 9a: ASSET REGISTER**

This schedule requires a summary of the quantity of assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

|    |         |                             |  |       | Items at start of year (quantity) | Items at end of year (quantity) | Net change | Data accuracy (1-4) |
|----|---------|-----------------------------|--|-------|-----------------------------------|---------------------------------|------------|---------------------|
| 8  | Voltage | Asset category              | Asset class  | Units |                                   |                                 |            |                     |
| 9  | All     | Overhead Line               | Concrete poles / steel structure                                 | No.   | 17,891                            | 18,065                          | 174        | 3                   |
| 10 | All     | Overhead Line               | Wood poles   | No.   | 10,611                            | 10,594                          | (17)       | 3                   |
| 11 | All     | Overhead Line               | Other pole types   | No.   | 2,100                             | 2,032                           | (68)       | 3                   |
| 12 | HV      | Subtransmission Line        | Subtransmission OH up to 66kV conductor                          | km    | 280                               | 276                             | (4)        | 3                   |
| 13 | HV      | Subtransmission Line        | Subtransmission OH 110kV+ conductor                              | km    | -                                 | -                               | -          | N/A                 |
| 14 | HV      | Subtransmission Cable       | Subtransmission UG up to 66kV (XLPE)                             | km    | 22                                | 23                              | 1          | 3                   |
| 15 | HV      | Subtransmission Cable       | Subtransmission UG up to 66kV (Oil pressurised)                  | km    | -                                 | -                               | -          | N/A                 |
| 16 | HV      | Subtransmission Cable       | Subtransmission UG up to 66kV (Gas pressurised)                  | km    | -                                 | -                               | -          | N/A                 |
| 17 | HV      | Subtransmission Cable       | Subtransmission UG up to 66kV (PILC)                             | km    | -                                 | -                               | -          | N/A                 |
| 18 | HV      | Subtransmission Cable       | Subtransmission UG 110kV+ (XLPE)                                 | km    | -                                 | -                               | -          | N/A                 |
| 19 | HV      | Subtransmission Cable       | Subtransmission UG 110kV+ (Oil pressurised)                      | km    | -                                 | -                               | -          | N/A                 |
| 20 | HV      | Subtransmission Cable       | Subtransmission UG 110kV+ (Gas Pressurised)                      | km    | -                                 | -                               | -          | N/A                 |
| 21 | HV      | Subtransmission Cable       | Subtransmission UG 110kV+ (PILC)                                 | km    | -                                 | -                               | -          | N/A                 |
| 22 | HV      | Subtransmission Cable       | Subtransmission submarine cable                                  | km    | -                                 | -                               | -          | N/A                 |
| 23 | HV      | Zone substation Buildings   | Zone substations up to 66kV                                      | No.   | 16                                | 16                              | -          | 4                   |
| 24 | HV      | Zone substation Buildings   | Zone substations 110kV+  | No.   | -                                 | -                               | -          | N/A                 |
| 25 | HV      | Zone substation switchgear  | 50/66/110kV CB (Indoor)  | No.   | -                                 | -                               | -          | N/A                 |
| 26 | HV      | Zone substation switchgear  | 50/66/110kV CB (Outdoor)   | No.   | -                                 | -                               | -          | N/A                 |
| 27 | HV      | Zone substation switchgear  | 33kV Switch (Ground Mounted)                                     | No.   | -                                 | -                               | -          | N/A                 |
| 28 | HV      | Zone substation switchgear  | 33kV Switch (Pole Mounted)                                       | No.   | 79                                | 69                              | (10)       | 3                   |
| 29 | HV      | Zone substation switchgear  | 33kV RMU   | No.   | 1                                 | 1                               | -          | 4                   |
| 30 | HV      | Zone substation switchgear  | 22/33kV CB (Indoor)  | No.   | 63                                | 82                              | 19         | 3                   |
| 31 | HV      | Zone substation switchgear  | 22/33kV CB (Outdoor)   | No.   | 27                                | 21                              | (6)        | 3                   |
| 32 | HV      | Zone substation switchgear  | 3.3/6.6/11/22kV CB (ground mounted)                              | No.   | 105                               | 106                             | 1          | 3                   |
| 33 | HV      | Zone substation switchgear  | 3.3/6.6/11/22kV CB (pole mounted)                                | No.   | 12                                | 12                              | -          | 3                   |
| 34 | HV      | Zone Substation Transformer | Zone Substation Transformers                                     | No.   | 31                                | 31                              | -          | 3                   |
| 35 | HV      | Distribution Line           | Distribution OH Open Wire Conductor                              | km    | 1,595                             | 1,584                           | (11)       | 3                   |
| 36 | HV      | Distribution Line           | Distribution OH Aerial Cable Conductor                           | km    | 2                                 | 2                               | (0)        | 3                   |
| 37 | HV      | Distribution Line           | SWER conductor   | km    | 541                               | 537                             | (4)        | 3                   |
| 38 | HV      | Distribution Cable          | Distribution UG XLPE or PVC                                      | km    | 176                               | 180                             | 4          | 3                   |
| 39 | HV      | Distribution Cable          | Distribution UG PILC   | km    | 11                                | 10                              | (1)        | 3                   |
| 40 | HV      | Distribution Cable          | Distribution Submarine Cable                                     | km    | -                                 | -                               | -          | N/A                 |
| 41 | HV      | Distribution switchgear     | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers | No.   | 103                               | 98                              | (5)        | 3                   |
| 42 | HV      | Distribution switchgear     | 3.3/6.6/11/22kV CB (Indoor)                                      | No.   | 21                                | 22                              | 1          | 3                   |
| 43 | HV      | Distribution switchgear     | 3.3/6.6/11/22kV Switches and fuses (pole mounted)                | No.   | 2,467                             | 2,416                           | (51)       | 3                   |
| 44 | HV      | Distribution switchgear     | 3.3/6.6/11/22kV Switch (ground mounted) - except RMU             | No.   | 65                                | 21                              | (44)       | 3                   |
| 45 | HV      | Distribution switchgear     | 3.3/6.6/11/22kV RMU  | No.   | 659                               | 216                             | (443)      | 3                   |
| 46 | HV      | Distribution Transformer    | Pole Mounted Transformer   | No.   | 3,585                             | 3,502                           | (83)       | 3                   |
| 47 | HV      | Distribution Transformer    | Ground Mounted Transformer                                       | No.   | 479                               | 496                             | 17         | 3                   |
| 48 | HV      | Distribution Transformer    | Voltage regulators   | No.   | 30                                | 28                              | (2)        | 3                   |
| 49 | HV      | Distribution Substations    | Ground Mounted Substation Housing                                | No.   | -                                 | -                               | -          | N/A                 |
| 50 | LV      | LV Line                     | LV OH Conductor  | km    | 419                               | 420                             | 1          | 3                   |
| 51 | LV      | LV Cable                    | LV UG Cable  | km    | 340                               | 329                             | (11)       | 3                   |
| 52 | LV      | LV Street lighting          | LV OH/UG Streetlight circuit                                     | km    | 85                                | 62                              | (23)       | 3                   |
| 53 | LV      | Connections                 | OH/UG consumer service connections                               | No.   | 25,492                            | 25,730                          | 238        | 3                   |
| 54 | All     | Protection                  | Protection relays (electromechanical, solid state and numeric)   | No.   | 128                               | 128                             | -          | 3                   |
| 55 | All     | SCADA and communications    | SCADA and communications equipment operating as a single system  | Lot   | 1                                 | 1                               | -          | 4                   |
| 56 | All     | Capacitor Banks             | Capacitors including controls                                    | No.   | -                                 | -                               | -          | N/A                 |
| 57 | All     | Load Control                | Centralised plant  | Lot   | 3                                 | 3                               | -          | 3                   |
| 58 | All     | Load Control                | Relays   | No.   | -                                 | -                               | -          | N/A                 |
| 59 | All     | Civils                      | Cable Tunnels  | km    | -                                 | -                               | -          | N/A                 |



|                            |                           |
|----------------------------|---------------------------|
| Company Name               | Marlborough Lines Limited |
| For Year Ended             | 31 March 2019             |
| Network / Sub-network Name |                           |

**SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES**

This schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

|    |  |                                     |                         |
|----|--|-------------------------------------|-------------------------|
| 9  |  |                                     |                         |
| 10 | <b>Circuit length by operating voltage (at year end)</b>                     | <b>Overhead (km)</b>                | <b>Underground (km)</b> |
| 11 | > 66kV   | -                                   | -                       |
| 12 | 50kV & 66kV  | -                                   | -                       |
| 13 | 33kV   | 276                                 | 23                      |
| 14 | SWER (all SWER voltages)   | 537                                 | -                       |
| 15 | 22kV (other than SWER)   | -                                   | -                       |
| 16 | 6.6kV to 11kV (inclusive—other than SWER)                                    | 1,586                               | 190                     |
| 17 | Low voltage (< 1kV)  | 420                                 | 329                     |
| 18 | <b>Total circuit length (for supply)</b>                                     | <b>2,818</b>                        | <b>542</b>              |
| 19 |  |                                     |                         |
| 20 | Dedicated street lighting circuit length (km)                                | 21                                  | 62                      |
| 21 | Circuit in sensitive areas (conservation areas, iwi territory etc) (km)      |                                     | Not available           |
| 22 |  |                                     |                         |
| 23 | <b>Overhead circuit length by terrain (at year end)</b>                      | <b>(% of total circuit length)</b>  |                         |
| 24 | Urban  | 327                                 | 12%                     |
| 25 | Rural  | 860                                 | 31%                     |
| 26 | Remote only  | -                                   | -                       |
| 27 | Rugged only  | 782                                 | 28%                     |
| 28 | Remote and rugged  | 850                                 | 30%                     |
| 29 | Unallocated overhead lines   | -                                   | -                       |
| 30 | <b>Total overhead length</b>   | <b>2,818</b>                        | <b>100%</b>             |
| 31 |  |                                     |                         |
| 32 |  | <b>(% of total circuit length)</b>  |                         |
| 33 | Length of circuit within 10km of coastline or geothermal areas (where known) | 2,305                               | 69%                     |
| 34 |  | <b>(% of total overhead length)</b> |                         |
| 35 | Overhead circuit requiring vegetation management                             | 2,818                               | 100%                    |

Company Name **Marlborough Lines Limited**  
 For Year Ended **31 March 2019**

**SCHEDULE 9d: REPORT ON EMBEDDED NETWORKS**

This schedule requires information concerning embedded networks owned by an EDB that are embedded in another EDB's network or in another embedded network.

sch ref

|    | Location *  | Number of ICPs served | Line charge revenue (\$000) |
|----|---|-----------------------|-----------------------------|
| 8  |   |                       |                             |
| 9  |   |                       |                             |
| 10 |   |                       |                             |
| 11 |   |                       |                             |
| 12 |   |                       |                             |
| 13 |   |                       |                             |
| 14 |   |                       |                             |
| 15 |   |                       |                             |
| 16 |   |                       |                             |
| 17 |   |                       |                             |
| 18 |   |                       |                             |
| 19 |   |                       |                             |
| 20 |   |                       |                             |
| 21 |   |                       |                             |
| 22 |   |                       |                             |
| 23 |   |                       |                             |
| 24 |   |                       |                             |
| 25 |   |                       |                             |
| 26 | * Extend embedded distribution networks table as necessary to disclose each embedded network owned by the EDB which is embedded in another EDB's network or in another embedded network |                       |                             |

|                            |                           |
|----------------------------|---------------------------|
| Company Name               | Marlborough Lines Limited |
| For Year Ended             | 31 March 2019             |
| Network / Sub-network Name |                           |

**SCHEDULE 9e: REPORT ON NETWORK DEMAND**

This schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new connections including distributed generation, peak demand and electricity volumes conveyed).

sch ref

|    |   |              |   |
|----|---|--------------|---|
| 8  | <b>9e(i): Consumer Connections</b>  |              |   |
| 9  | Number of ICPs connected in year by consumer type                             |              |   |
| 10 |   |              | <b>Number of connections (ICPs)</b>                     |
| 11 | Consumer types defined by EDB*  |              |   |
| 12 | Residential   |              | 207   |
| 13 | General (small business)  |              | 31  |
| 14 | Commercial and Industrial   |              | -   |
| 15 | Irrigation  |              | 4   |
| 16 | Other   |              | -   |
| 17 | * include additional rows if needed   |              |   |
| 18 | <b>Connections total</b>  |              | <b>242</b>  |
| 19 | <b>Distributed generation</b>   |              |   |
| 20 | Number of connections made in year  | 134          | connections   |
| 21 | Capacity of distributed generation installed in year                          | 0.7          | MVA   |
| 22 | <b>9e(ii): System Demand</b>  |              |   |
| 23 |   |              | <b>Demand at time of maximum coincident demand (MW)</b> |
| 24 |   |              |   |
| 25 | <b>Maximum coincident system demand</b>                                       |              |   |
| 26 | GXP demand  | 78.4         |   |
| 27 | plus Distributed generation output at HV and above                            | 0.7          |   |
| 28 | <b>Maximum coincident system demand</b>                                       | <b>79</b>    |   |
| 29 | less Net transfers to (from) other EDBs at HV and above                       | -            |   |
| 30 | <b>Demand on system for supply to consumers' connection points</b>            | <b>79</b>    |   |
| 31 | <b>Electricity volumes carried</b>  |              | <b>Energy (GWh)</b>                                     |
| 32 | Electricity supplied from GXPs  | 397.6        |   |
| 33 | less Electricity exports to GXPs  | -            |   |
| 34 | plus Electricity supplied from distributed generation                         | 12.5         |   |
| 35 | less Net electricity supplied to (from) other EDBs                            | -            |   |
| 36 | <b>Electricity entering system for supply to consumers' connection points</b> | <b>410</b>   |   |
| 37 | less Total energy delivered to ICPs   | 392          |   |
| 38 | <b>Electricity losses (loss ratio)</b>  | <b>18</b>    | <b>4.4%</b>   |
| 39 |   |              |   |
| 40 | <b>Load factor</b>  | <b>0.59</b>  |   |
| 41 | <b>9e(iii): Transformer Capacity</b>  |              |   |
| 42 |   |              | <b>(MVA)</b>  |
| 43 | Distribution transformer capacity (EDB owned)                                 | 336.3        |   |
| 44 | Distribution transformer capacity (Non-EDB owned, estimated)                  | 18.7         |   |
| 45 | <b>Total distribution transformer capacity</b>                                | <b>355</b>   |   |
| 46 |   |              |   |
| 47 | <b>Zone substation transformer capacity</b>                                   | <b>315.5</b> |   |

Company Name **Marlborough Lines Limited**

For Year Ended **31 March 2019**

Network / Sub-network Name

**SCHEDULE 10: REPORT ON NETWORK RELIABILITY**

This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

**8 10(i): Interruptions**

**9 Interruptions by class**

|  | Number of interruptions |
|--|-------------------------|
| 10 Class A (planned interruptions by Transpower)                         | -                       |
| 11 Class B (planned interruptions on the network)                        | 316                     |
| 12 Class C (unplanned interruptions on the network)                      | 282                     |
| 13 Class D (unplanned interruptions by Transpower)                       | -                       |
| 14 Class E (unplanned interruptions of EDB owned generation)             | -                       |
| 15 Class F (unplanned interruptions of generation owned by others)       | -                       |
| 16 Class G (unplanned interruptions caused by another disclosing entity) | -                       |
| 17 Class H (planned interruptions caused by another disclosing entity)   | -                       |
| 18 Class I (interruptions caused by parties not included above)          | -                       |
| 19 <b>Total</b>  | <b>598</b>              |

**21 Interruption restoration**

|  | ≤3Hrs | >3hrs |
|--|-------|-------|
| 22 Class C interruptions restored within | 197   | 85    |

**24 SAIFI and SAIDI by class**

|  | SAIFI       | SAIDI        |
|--|-------------|--------------|
| 25 Class A (planned interruptions by Transpower)                         | -           | -            |
| 26 Class B (planned interruptions on the network)                        | 0.31        | 47.9         |
| 27 Class C (unplanned interruptions on the network)                      | 0.71        | 81.2         |
| 28 Class D (unplanned interruptions by Transpower)                       | -           | -            |
| 29 Class E (unplanned interruptions of EDB owned generation)             | -           | -            |
| 30 Class F (unplanned interruptions of generation owned by others)       | -           | -            |
| 31 Class G (unplanned interruptions caused by another disclosing entity) | -           | -            |
| 32 Class H (planned interruptions caused by another disclosing entity)   | -           | -            |
| 33 Class I (interruptions caused by parties not included above)          | -           | -            |
| 34 <b>Total</b>  | <b>1.02</b> | <b>129.0</b> |

**36 Normalised SAIFI and SAIDI**

|   | Normalised SAIFI | Normalised SAIDI |
|---|------------------|------------------|
| 37 Classes B & C (interruptions on the network) | 1.02             | 129.0            |



Company Name **Marlborough Lines Limited**

For Year Ended **31 March 2019**

Network / Sub-network Name

**SCHEDULE 10: REPORT ON NETWORK RELIABILITY**

This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

**10(ii): Class C Interruptions and Duration by Cause**

| Cause                    | SAIFI | SAIDI |
|--------------------------|-------|-------|
| Lightning                | 0.01  | 1.2   |
| Vegetation               | 0.06  | 6.0   |
| Adverse weather          | 0.08  | 23.0  |
| Adverse environment      | –     | –     |
| Third party interference | 0.19  | 15.2  |
| Wildlife                 | 0.08  | 5.0   |
| Human error              | 0.03  | 0.1   |
| Defective equipment      | 0.17  | 26.0  |
| Cause unknown            | 0.10  | 4.6   |

**10(iii): Class B Interruptions and Duration by Main Equipment Involved**

| Main equipment involved            | SAIFI | SAIDI |
|------------------------------------|-------|-------|
| Subtransmission lines              | 0.00  | 0.03  |
| Subtransmission cables             | –     | –     |
| Subtransmission other              | 0.00  | 0.70  |
| Distribution lines (excluding LV)  | 0.00  | 1.37  |
| Distribution cables (excluding LV) | 0.00  | 0.02  |
| Distribution other (excluding LV)  | 0.30  | 45.73 |

**10(iv): Class C Interruptions and Duration by Main Equipment Involved**

| Main equipment involved            | SAIFI | SAIDI |
|------------------------------------|-------|-------|
| Subtransmission lines              | –     | –     |
| Subtransmission cables             | –     | –     |
| Subtransmission other              | –     | –     |
| Distribution lines (excluding LV)  | 0.37  | 68.65 |
| Distribution cables (excluding LV) | 0.03  | 1.74  |
| Distribution other (excluding LV)  | 0.30  | 10.78 |

**10(v): Fault Rate**

| Main equipment involved            | Number of Faults | Circuit length (km) | Fault rate (faults per 100km) |
|------------------------------------|------------------|---------------------|-------------------------------|
| Subtransmission lines              | –                | 279                 | –                             |
| Subtransmission cables             | –                | 22                  | –                             |
| Subtransmission other              | –                | –                   | –                             |
| Distribution lines (excluding LV)  | 230              | 2,142               | 10.74                         |
| Distribution cables (excluding LV) | 8                | 186                 | 4.30                          |
| Distribution other (excluding LV)  | 44               | –                   | –                             |
| <b>Total</b>                       | <b>282</b>       |                     |                               |



**EDB Information Disclosure Requirements  
Information Templates  
for  
Schedules 11a–13**

|   |                           |
|---|---------------------------|
| <b>Company Name</b>                               | Marlborough Lines Limited |
| <b>Disclosure Date</b>                            | 31 March 2019             |
| <b>AMP Planning Period Start Date (first day)</b> | 1 April 2019              |

Templates for Schedules 11a–13 (Asset Management Plan)  
Template Version 4.1. Prepared 21 December 2017

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| 11b             | <a href="#"><u>REPORT ON FORECAST OPERATIONAL EXPENDITURE</u></a> |
| 12a             | <a href="#"><u>REPORT ON ASSET CONDITION</u></a>                  |
| 12b             | <a href="#"><u>REPORT ON FORECAST CAPACITY</u></a>                |
| 12c             | <a href="#"><u>REPORT ON FORECAST NETWORK DEMAND</u></a>          |
| 12d             | <a href="#"><u>REPORT FORECAST INTERRUPTIONS AND DURATION</u></a> |
| 13              | <a href="#"><u>REPORT ON ASSET MANAGEMENT MATURITY</u></a>        |

Company Name **Marlborough Lines Limited**  
 AMP Planning Period **1 April 2019 – 31 March 2029**

**SCHEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE**

This schedule requires a breakdown of forecast expenditure on assets for the current disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms. Also required is a forecast of the value of commissioned assets (i.e., the value of RAB additions). EDBs must provide explanatory comment on the difference between constant price and nominal dollar forecasts of expenditure on assets in Schedule 14a (Mandatory Explanatory Notes). This information is not part of audited disclosure information.

sch ref

|  | Current Year CY                   | CY+1          | CY+2          | CY+3          | CY+4          | CY+5          | CY+6          | CY+7          | CY+8          | CY+9          | CY+10         |
|--|-----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|  | for year ended 31 Mar 19          | 31 Mar 20     | 31 Mar 21     | 31 Mar 22     | 31 Mar 23     | 31 Mar 24     | 31 Mar 25     | 31 Mar 26     | 31 Mar 27     | 31 Mar 28     | 31 Mar 29     |
| <b>11a(i): Expenditure on Assets Forecast</b>                            | <b>\$000 (in nominal dollars)</b> |               |               |               |               |               |               |               |               |               |               |
| Consumer connection  | 85                                | 101           | 104           | 106           | 108           | 110           | 112           | 115           | 117           | 119           | 122           |
| System growth  | 285                               | 101           | 104           | 741           | 108           | 110           | 112           | 115           | 117           | 119           | 122           |
| Asset replacement and renewal  | 3,899                             | 8,111         | 7,841         | 9,450         | 8,938         | 9,909         | 6,738         | 7,102         | 8,062         | 11,679        | 11,974        |
| Asset relocations  | 121                               | 254           | -             | -             | -             | 330           | 112           | 115           | 117           | 119           | 122           |
| Reliability, safety and environment:                                     |                                   |               |               |               |               |               |               |               |               |               |               |
| Quality of supply  | 454                               | 609           | 2,460         | 370           | 1,052         | 440           | 3,650         | 4,009         | 2,921         | 149           | 152           |
| Legislative and regulatory   | -                                 | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |
| Other reliability, safety and environment                                | 6,674                             | 1,065         | 259           | 635           | 1,279         | 490           | 898           | 458           | 876           | 298           | 304           |
| <b>Total reliability, safety and environment</b>                         | <b>7,128</b>                      | <b>1,674</b>  | <b>2,719</b>  | <b>1,005</b>  | <b>2,332</b>  | <b>930</b>    | <b>4,548</b>  | <b>4,467</b>  | <b>3,797</b>  | <b>447</b>    | <b>456</b>    |
| <b>Expenditure on network assets</b>                                     | <b>11,518</b>                     | <b>10,242</b> | <b>10,767</b> | <b>11,301</b> | <b>11,485</b> | <b>11,390</b> | <b>11,623</b> | <b>11,913</b> | <b>12,210</b> | <b>12,484</b> | <b>12,794</b> |
| Expenditure on non-network assets  | 1,830                             | 1,471         | 1,502         | 1,534         | 1,565         | 1,596         | 1,628         | 1,661         | 1,694         | 1,728         | 1,763         |
| <b>Expenditure on assets</b>   | <b>13,348</b>                     | <b>11,713</b> | <b>12,268</b> | <b>12,836</b> | <b>13,050</b> | <b>12,986</b> | <b>13,252</b> | <b>13,574</b> | <b>13,904</b> | <b>14,212</b> | <b>14,557</b> |
| plus Cost of financing   | -                                 | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |
| less Value of capital contributions                                      | 38                                | 50            | 50            | 50            | 50            | 50            | 50            | 50            | 50            | 50            | 50            |
| plus Value of vested assets  | -                                 | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |
| <b>Capital expenditure forecast</b>                                      | <b>13,310</b>                     | <b>11,663</b> | <b>12,218</b> | <b>12,786</b> | <b>13,000</b> | <b>12,936</b> | <b>13,202</b> | <b>13,524</b> | <b>13,854</b> | <b>14,162</b> | <b>14,507</b> |
| Assets commissioned  | 9,969                             | 17,397        | 12,118        | 11,936        | 13,750        | 10,436        | 12,302        | 13,424        | 17,954        | 14,162        | 14,507        |
|  | Current Year CY                   | CY+1          | CY+2          | CY+3          | CY+4          | CY+5          | CY+6          | CY+7          | CY+8          | CY+9          | CY+10         |
|  | for year ended 31 Mar 19          | 31 Mar 20     | 31 Mar 21     | 31 Mar 22     | 31 Mar 23     | 31 Mar 24     | 31 Mar 25     | 31 Mar 26     | 31 Mar 27     | 31 Mar 28     | 31 Mar 29     |
|  | <b>\$000 (in constant prices)</b> |               |               |               |               |               |               |               |               |               |               |
| Consumer connection  | 85                                | 100           | 100           | 100           | 100           | 100           | 100           | 100           | 100           | 100           | 100           |
| System growth  | 285                               | 100           | 100           | 700           | 100           | 100           | 100           | 100           | 100           | 100           | 100           |
| Asset replacement and renewal  | 3,899                             | 7,995         | 7,570         | 8,930         | 8,280         | 9,000         | 6,000         | 6,200         | 6,900         | 9,800         | 9,850         |
| Asset relocations  | 121                               | 250           | -             | -             | -             | 300           | 100           | 100           | 100           | 100           | 100           |
| Reliability, safety and environment:                                     |                                   |               |               |               |               |               |               |               |               |               |               |
| Quality of supply  | 454                               | 600           | 2,375         | 350           | 975           | 400           | 3,250         | 3,500         | 2,500         | 125           | 125           |
| Legislative and regulatory   | -                                 | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |
| Other reliability, safety and environment                                | 6,674                             | 1,050         | 250           | 600           | 1,185         | 445           | 800           | 400           | 750           | 250           | 250           |
| <b>Total reliability, safety and environment</b>                         | <b>7,128</b>                      | <b>1,650</b>  | <b>2,625</b>  | <b>950</b>    | <b>2,160</b>  | <b>845</b>    | <b>4,050</b>  | <b>3,900</b>  | <b>3,250</b>  | <b>375</b>    | <b>375</b>    |
| <b>Expenditure on network assets</b>                                     | <b>11,518</b>                     | <b>10,095</b> | <b>10,395</b> | <b>10,680</b> | <b>10,640</b> | <b>10,345</b> | <b>10,350</b> | <b>10,400</b> | <b>10,450</b> | <b>10,475</b> | <b>10,525</b> |
| Expenditure on non-network assets  | 1,830                             | 1,450         | 1,450         | 1,450         | 1,450         | 1,450         | 1,450         | 1,450         | 1,450         | 1,450         | 1,450         |
| <b>Expenditure on assets</b>   | <b>13,348</b>                     | <b>11,545</b> | <b>11,845</b> | <b>12,130</b> | <b>12,090</b> | <b>11,795</b> | <b>11,800</b> | <b>11,850</b> | <b>11,900</b> | <b>11,925</b> | <b>11,975</b> |
| <b>Subcomponents of expenditure on assets (where known)</b>              |                                   |               |               |               |               |               |               |               |               |               |               |
| Energy efficiency and demand side management, reduction of energy losses | -                                 | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |
| Overhead to underground conversion                                       | -                                 | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |
| Research and development   | -                                 | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |

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**SCHEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE**

This schedule requires a breakdown of forecast expenditure on assets for the current disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms. Also required is a forecast of the value of commissioned assets (i.e., the value of RAB additions). EDBs must provide explanatory comment on the difference between constant price and nominal dollar forecasts of expenditure on assets in Schedule 14a (Mandatory Explanatory Notes). This information is not part of audited disclosure information.

sch ref

|  | Current Year CY<br>for year ended<br>31 Mar 19 | CY+1<br>31 Mar 20 | CY+2<br>31 Mar 21 | CY+3<br>31 Mar 22 | CY+4<br>31 Mar 23 | CY+5<br>31 Mar 24 | CY+6<br>31 Mar 25 | CY+7<br>31 Mar 26 | CY+8<br>31 Mar 27 | CY+9<br>31 Mar 28 | CY+10<br>31 Mar 29 |
|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| <b>Difference between nominal and constant price forecasts</b> | <b>\$000</b>                                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                    |
| Consumer connection  | -  | 1                 | 4                 | 6                 | 8                 | 10                | 12                | 15                | 17                | 19                | 22                 |
| System growth  | -  | 1                 | 4                 | 41                | 8                 | 10                | 12                | 15                | 17                | 19                | 22                 |
| Asset replacement and renewal                                  | -  | 116               | 271               | 520               | 658               | 909               | 738               | 902               | 1,162             | 1,879             | 2,124              |
| Asset relocations  | -  | 4                 | -                 | -                 | -                 | 30                | 12                | 15                | 17                | 19                | 22                 |
| Reliability, safety and environment:                           |  |                   |                   |                   |                   |                   |                   |                   |                   |                   |                    |
| Quality of supply  | -  | 9                 | 85                | 20                | 77                | 40                | 400               | 509               | 421               | 24                | 27                 |
| Legislative and regulatory                                     | -  | -                 | -                 | -                 | -                 | -                 | -                 | -                 | -                 | -                 | -                  |
| Other reliability, safety and environment                      | -  | 15                | 9                 | 35                | 94                | 45                | 98                | 58                | 126               | 48                | 54                 |
| <b>Total reliability, safety and environment</b>               | -  | 24                | 94                | 55                | 172               | 85                | 498               | 567               | 547               | 72                | 81                 |
| <b>Expenditure on network assets</b>                           | -  | 147               | 372               | 621               | 845               | 1,045             | 1,273             | 1,513             | 1,760             | 2,009             | 2,269              |
| Expenditure on non-network assets                              | -  | 21                | 52                | 84                | 115               | 146               | 178               | 211               | 244               | 278               | 313                |
| <b>Expenditure on assets</b>                                   | -  | 168               | 423               | 706               | 960               | 1,191             | 1,452             | 1,724             | 2,004             | 2,287             | 2,582              |
| <b>11a(ii): Consumer Connection</b>                            | <b>\$000 (in constant prices)</b>              |                   |                   |                   |                   |                   |                   |                   |                   |                   |                    |
| Residential  | 50   | 50                | 50                | 50                | 50                | 50                |                   |                   |                   |                   |                    |
| General  | 1  | 10                | 10                | 10                | 10                | 10                |                   |                   |                   |                   |                    |
| Commercial & Industrial  | 34   | 30                | 30                | 30                | 30                | 30                |                   |                   |                   |                   |                    |
| Irrigation   | -  | -                 | -                 | -                 | -                 | -                 |                   |                   |                   |                   |                    |
| Other  | -  | 10                | 10                | 10                | 10                | 10                |                   |                   |                   |                   |                    |
| <b>Consumer connection expenditure</b>                         | 85   | 100               | 100               | 100               | 100               | 100               |                   |                   |                   |                   |                    |
| less Capital contributions funding consumer connection         |  |                   |                   |                   |                   |                   |                   |                   |                   |                   |                    |
| <b>Consumer connection less capital contributions</b>          | 85   | 100               | 100               | 100               | 100               | 100               |                   |                   |                   |                   |                    |
| <b>11a(iii): System Growth</b>                                 |  |                   |                   |                   |                   |                   |                   |                   |                   |                   |                    |
| Subtransmission  |  |                   |                   |                   |                   |                   |                   |                   |                   |                   |                    |
| Zone substations   |  |                   |                   | 100               |                   |                   |                   |                   |                   |                   |                    |
| Distribution and LV lines                                      |  |                   |                   | 500               |                   |                   |                   |                   |                   |                   |                    |
| Distribution and LV cables                                     | 5  |                   |                   |                   |                   |                   |                   |                   |                   |                   |                    |
| Distribution substations and transformers                      | 180  |                   |                   |                   |                   |                   |                   |                   |                   |                   |                    |
| Distribution switchgear  |  |                   |                   |                   |                   |                   |                   |                   |                   |                   |                    |
| Other network assets   | 100  | 100               | 100               | 100               | 100               | 100               |                   |                   |                   |                   |                    |
| <b>System growth expenditure</b>                               | 285  | 100               | 100               | 700               | 100               | 100               |                   |                   |                   |                   |                    |
| less Capital contributions funding system growth               |  |                   |                   |                   |                   |                   |                   |                   |                   |                   |                    |
| <b>System growth less capital contributions</b>                | 285  | 100               | 100               | 700               | 100               | 100               |                   |                   |                   |                   |                    |

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**SCHEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE**

This schedule requires a breakdown of forecast expenditure on assets for the current disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms. Also required is a forecast of the value of commissioned assets (i.e., the value of RAB additions).  
 EDBs must provide explanatory comment on the difference between constant price and nominal dollar forecasts of expenditure on assets in Schedule 14a (Mandatory Explanatory Notes).  
 This information is not part of audited disclosure information.

sch ref

|  | Current Year CY                   | CY+1         | CY+2         | CY+3         | CY+4         | CY+5         |
|--|-----------------------------------|--------------|--------------|--------------|--------------|--------------|
| for year ended   | 31 Mar 19                         | 31 Mar 20    | 31 Mar 21    | 31 Mar 22    | 31 Mar 23    | 31 Mar 24    |
| <b>11a(iv): Asset Replacement and Renewal</b>                    | <b>\$000 (in constant prices)</b> |              |              |              |              |              |
| Subtransmission  | 2,200                             | 2,100        | 2,175        | 1,450        | 380          | 4,000        |
| Zone substations   | 772                               | 1,000        | -            | 1,900        | 550          | 475          |
| Distribution and LV lines  | 526                               | 3,630        | 3,420        | 4,250        | 6,500        | 3,250        |
| Distribution and LV cables                                       | 15                                | -            | -            | -            | -            | 375          |
| Distribution substations and transformers                        | 72                                | 800          | 1,525        | 300          | 425          | 475          |
| Distribution switchgear  | 138                               | 465          | 450          | 1,030        | 425          | 425          |
| Other network assets   | 176                               | -            | -            | -            | -            | -            |
| <b>Asset replacement and renewal expenditure</b>                 | <b>3,899</b>                      | <b>7,995</b> | <b>7,570</b> | <b>8,930</b> | <b>8,280</b> | <b>9,000</b> |
| less Capital contributions funding asset replacement and renewal | -                                 | -            | -            | -            | -            | -            |
| <b>Asset replacement and renewal less capital contributions</b>  | <b>3,899</b>                      | <b>7,995</b> | <b>7,570</b> | <b>8,930</b> | <b>8,280</b> | <b>9,000</b> |
|  | Current Year CY                   | CY+1         | CY+2         | CY+3         | CY+4         | CY+5         |
| for year ended   | 31 Mar 19                         | 31 Mar 20    | 31 Mar 21    | 31 Mar 22    | 31 Mar 23    | 31 Mar 24    |
| <b>11a(v): Asset Relocations</b>                                 | <b>\$000 (in constant prices)</b> |              |              |              |              |              |
| <i>Project or programme*</i>                                     |                                   |              |              |              |              |              |
| Roading Authorities  | 121                               | 250          | -            | -            | -            | -            |
| Other  | -                                 | -            | -            | -            | -            | 300          |
| <i>*Include additional rows if needed</i>                        |                                   |              |              |              |              |              |
| All other project or programmes - asset relocations              | -                                 | -            | -            | -            | -            | -            |
| <b>Asset relocations expenditure</b>                             | <b>121</b>                        | <b>250</b>   | <b>-</b>     | <b>-</b>     | <b>-</b>     | <b>300</b>   |
| less Capital contributions funding asset relocations             | 38                                | -            | -            | -            | -            | -            |
| <b>Asset relocations less capital contributions</b>              | <b>83</b>                         | <b>250</b>   | <b>-</b>     | <b>-</b>     | <b>-</b>     | <b>300</b>   |
|  | Current Year CY                   | CY+1         | CY+2         | CY+3         | CY+4         | CY+5         |
| for year ended   | 31 Mar 19                         | 31 Mar 20    | 31 Mar 21    | 31 Mar 22    | 31 Mar 23    | 31 Mar 24    |
| <b>11a(vi): Quality of Supply</b>                                | <b>\$000 (in constant prices)</b> |              |              |              |              |              |
| <i>Project or programme*</i>                                     |                                   |              |              |              |              |              |
| SCADA  | 8                                 | -            | -            | -            | -            | -            |
| Network Automation   | 187                               | 150          | 125          | 100          | 325          | 150          |
| Generators   | 5                                 | -            | -            | -            | -            | -            |
| Digital Radio Network  | 39                                | -            | 250          | 250          | -            | 250          |
| <i>*Include additional rows if needed</i>                        |                                   |              |              |              |              |              |
| All other projects or programmes - quality of supply             | 216                               | 450          | 2,000        | -            | 650          | -            |
| <b>Quality of supply expenditure</b>                             | <b>454</b>                        | <b>600</b>   | <b>2,375</b> | <b>350</b>   | <b>975</b>   | <b>400</b>   |
| less Capital contributions funding quality of supply             | -                                 | -            | -            | -            | -            | -            |
| <b>Quality of supply less capital contributions</b>              | <b>454</b>                        | <b>600</b>   | <b>2,375</b> | <b>350</b>   | <b>975</b>   | <b>400</b>   |



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**SCHEDULE 11b: REPORT ON FORECAST OPERATIONAL EXPENDITURE**

This schedule requires a breakdown of forecast operational expenditure for the disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms. EDBs must provide explanatory comment on the difference between constant price and nominal dollar operational expenditure forecasts in Schedule 14a (Mandatory Explanatory Notes). This information is not part of audited disclosure information.

| sch ref |  | Current Year CY                   | CY+1      | CY+2      | CY+3      | CY+4      | CY+5      | CY+6      | CY+7      | CY+8      | CY+9      | CY+10     |  |
|---------|--|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
|         |  | for year ended 31 Mar 19          | 31 Mar 20 | 31 Mar 21 | 31 Mar 22 | 31 Mar 23 | 31 Mar 24 | 31 Mar 25 | 31 Mar 26 | 31 Mar 27 | 31 Mar 28 | 31 Mar 29 |  |
| 9       | <b>Operational Expenditure Forecast</b>  | <b>\$000 (in nominal dollars)</b> |           |           |           |           |           |           |           |           |           |           |  |
| 10      | Service interruptions and emergencies  | 1,020                             | 1,015     | 1,036     | 1,058     | 1,079     | 1,101     | 1,123     | 1,145     | 1,168     | 1,192     | 1,216     |  |
| 11      | Vegetation management  | 2,288                             | 2,029     | 1,968     | 1,958     | 1,943     | 1,927     | 1,909     | 1,947     | 1,928     | 1,966     | 2,006     |  |
| 12      | Routine and corrective maintenance and inspection  | 2,909                             | 2,841     | 2,797     | 2,857     | 2,806     | 2,863     | 2,920     | 2,864     | 2,921     | 2,979     | 3,039     |  |
| 13      | Asset replacement and renewal  | 756                               | 710       | 725       | 741       | 756       | 771       | 786       | 802       | 818       | 834       | 851       |  |
| 14      | <b>Network Opex</b>  | 6,973                             | 6,594     | 6,525     | 6,614     | 6,584     | 6,661     | 6,738     | 6,758     | 6,835     | 6,972     | 7,111     |  |
| 15      | System operations and network support  | 4,075                             | 4,312     | 4,402     | 4,497     | 4,587     | 4,679     | 4,773     | 4,868     | 4,966     | 5,065     | 5,166     |  |
| 16      | Business support   | 4,033                             | 4,160     | 4,247     | 4,339     | 4,426     | 4,514     | 4,604     | 4,696     | 4,790     | 4,886     | 4,984     |  |
| 17      | <b>Non-network opex</b>  | 8,108                             | 8,471     | 8,648     | 8,836     | 9,013     | 9,193     | 9,377     | 9,565     | 9,756     | 9,951     | 10,150    |  |
| 18      | <b>Operational expenditure</b>   | 15,081                            | 15,066    | 15,174    | 15,450    | 15,597    | 15,854    | 16,115    | 16,323    | 16,591    | 16,923    | 17,261    |  |
| 22      |  | <b>\$000 (in constant prices)</b> |           |           |           |           |           |           |           |           |           |           |  |
| 22      | Service interruptions and emergencies  | 1,020                             | 1,000     | 1,000     | 1,000     | 1,000     | 1,000     | 1,000     | 1,000     | 1,000     | 1,000     | 1,000     |  |
| 23      | Vegetation management  | 2,288                             | 2,000     | 1,900     | 1,850     | 1,800     | 1,750     | 1,700     | 1,700     | 1,650     | 1,650     | 1,650     |  |
| 24      | Routine and corrective maintenance and inspection  | 2,909                             | 2,800     | 2,700     | 2,700     | 2,600     | 2,600     | 2,600     | 2,500     | 2,500     | 2,500     | 2,500     |  |
| 25      | Asset replacement and renewal  | 756                               | 700       | 700       | 700       | 700       | 700       | 700       | 700       | 700       | 700       | 700       |  |
| 26      | <b>Network Opex</b>  | 6,973                             | 6,500     | 6,300     | 6,250     | 6,100     | 6,050     | 6,000     | 5,900     | 5,850     | 5,850     | 5,850     |  |
| 27      | System operations and network support  | 4,075                             | 4,250     | 4,250     | 4,250     | 4,250     | 4,250     | 4,250     | 4,250     | 4,250     | 4,250     | 4,250     |  |
| 28      | Business support   | 4,033                             | 4,100     | 4,100     | 4,100     | 4,100     | 4,100     | 4,100     | 4,100     | 4,100     | 4,100     | 4,100     |  |
| 29      | <b>Non-network opex</b>  | 8,108                             | 8,350     | 8,350     | 8,350     | 8,350     | 8,350     | 8,350     | 8,350     | 8,350     | 8,350     | 8,350     |  |
| 30      | <b>Operational expenditure</b>   | 15,081                            | 14,850    | 14,650    | 14,600    | 14,450    | 14,400    | 14,350    | 14,250    | 14,200    | 14,200    | 14,200    |  |
| 31      | <b>Subcomponents of operational expenditure (where known)</b>                              |                                   |           |           |           |           |           |           |           |           |           |           |  |
| 32      | Energy efficiency and demand side management, reduction of energy losses                   | N/A                               | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       |  |
| 33      | Direct billing*  | N/A                               | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       |  |
| 34      | Research and Development   | N/A                               | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       |  |
| 35      | Insurance  | 340                               | 360       | 340       | 330       | 330       | 330       | 330       | 330       | 330       | 330       | 330       |  |
| 37      | * Direct billing expenditure by suppliers that direct bill the majority of their consumers |                                   |           |           |           |           |           |           |           |           |           |           |  |
| 41      | <b>Difference between nominal and real forecasts</b>                                       | <b>\$000</b>                      |           |           |           |           |           |           |           |           |           |           |  |
| 42      | Service interruptions and emergencies  | -                                 | 15        | 36        | 58        | 79        | 101       | 123       | 145       | 168       | 192       | 216       |  |
| 43      | Vegetation management  | -                                 | 29        | 68        | 108       | 143       | 177       | 209       | 247       | 278       | 316       | 356       |  |
| 44      | Routine and corrective maintenance and inspection  | -                                 | 41        | 97        | 157       | 206       | 263       | 320       | 364       | 421       | 479       | 539       |  |
| 45      | Asset replacement and renewal  | -                                 | 10        | 25        | 41        | 56        | 71        | 86        | 102       | 118       | 134       | 151       |  |
| 46      | <b>Network Opex</b>  | -                                 | 94        | 225       | 364       | 484       | 611       | 738       | 858       | 985       | 1,122     | 1,261     |  |
| 47      | System operations and network support  | -                                 | 62        | 152       | 247       | 337       | 429       | 523       | 618       | 716       | 815       | 916       |  |
| 48      | Business support   | -                                 | 60        | 147       | 239       | 326       | 414       | 504       | 596       | 690       | 786       | 884       |  |
| 49      | <b>Non-network opex</b>  | -                                 | 121       | 298       | 486       | 663       | 843       | 1,027     | 1,215     | 1,406     | 1,601     | 1,800     |  |
| 50      | <b>Operational expenditure</b>   | -                                 | 216       | 524       | 850       | 1,147     | 1,454     | 1,765     | 2,073     | 2,391     | 2,723     | 3,061     |  |



|                     |                                     |
|---------------------|-------------------------------------|
| Company Name        | <b>Marlborough Lines Limited</b>    |
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**SCHEDULE 12a: REPORT ON ASSET CONDITION**

This schedule requires a breakdown of asset condition by asset class as at the start of the forecast year. The data accuracy assessment relates to the percentage values disclosed in the asset condition columns. Also required is a forecast of the percentage of units to be replaced in the next 5 years. All information should be consistent with the information provided in the AMP and the expenditure on assets forecast in Schedule 11a. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

|         |                | Asset condition at start of planning period (percentage of units by grade) |   |     |      |      |       |       |               |                     |     | %             |   |
|---------|----------------|--|---|-----|------|------|-------|-------|---------------|---------------------|-----|---------------|---|
|         |                |  |   |     |      |      |       |       |               |                     |     | Data accuracy | forecast to be replaced in next 5 years |
| Voltage | Asset category | Asset class  | Units   | H1  | H2   | H3   | H4    | H5    | Grade unknown | Data accuracy (1-4) |     |               |   |
| 7       |                |  |   |     |      |      |       |       |               |                     |     |               |   |
| 8       |                |  |   |     |      |      |       |       |               |                     |     |               |   |
| 9       |                |  |   |     |      |      |       |       |               |                     |     |               |   |
| 10      | All            | Overhead Line  | Concrete poles / steel structure                | No. | 0.2% | 2.5% | 7.7%  | 71.5% | 18.0%         | -                   | 3   | 3%            |   |
| 11      | All            | Overhead Line  | Wood poles                                      | No. | 0.3% | 1.8% | 11.4% | 67.3% | 19.1%         | -                   | 3   | 5%            |   |
| 12      | All            | Overhead Line  | Other pole types                                | No. | -    | -    | -     | -     | -             | -                   | N/A | N/A           |   |
| 13      | HV             | Subtransmission Line   | Subtransmission OH up to 66kV conductor         | km  | 7.0% | 5.4% | 38.9% | 17.8% | 30.3%         | 0.8%                | 3   | 10%           |   |
| 14      | HV             | Subtransmission Line   | Subtransmission OH 110kV+ conductor             | km  | N/A  | N/A  | N/A   | N/A   | N/A           | N/A                 | N/A | N/A           |   |
| 15      | HV             | Subtransmission Cable  | Subtransmission UG up to 66kV (XLPE)            | km  | -    | -    | 0.0%  | 5.6%  | 94.4%         | -                   | 3   | -             |   |
| 16      | HV             | Subtransmission Cable  | Subtransmission UG up to 66kV (Oil pressurised) | km  | N/A  | N/A  | N/A   | N/A   | N/A           | N/A                 | N/A | N/A           |   |
| 17      | HV             | Subtransmission Cable  | Subtransmission UG up to 66kV (Gas pressurised) | km  | N/A  | N/A  | N/A   | N/A   | N/A           | N/A                 | N/A | N/A           |   |
| 18      | HV             | Subtransmission Cable  | Subtransmission UG up to 66kV (PILC)            | km  | -    | -    | -     | -     | 100.0%        | -                   | 3   | -             |   |
| 19      | HV             | Subtransmission Cable  | Subtransmission UG 110kV+ (XLPE)                | km  | N/A  | N/A  | N/A   | N/A   | N/A           | N/A                 | N/A | N/A           |   |
| 20      | HV             | Subtransmission Cable  | Subtransmission UG 110kV+ (Oil pressurised)     | km  | N/A  | N/A  | N/A   | N/A   | N/A           | N/A                 | N/A | N/A           |   |
| 21      | HV             | Subtransmission Cable  | Subtransmission UG 110kV+ (Gas pressurised)     | km  | N/A  | N/A  | N/A   | N/A   | N/A           | N/A                 | N/A | N/A           |   |
| 22      | HV             | Subtransmission Cable  | Subtransmission UG 110kV+ (PILC)                | km  | N/A  | N/A  | N/A   | N/A   | N/A           | N/A                 | N/A | N/A           |   |
| 23      | HV             | Subtransmission Cable  | Subtransmission submarine cable                 | km  | N/A  | N/A  | N/A   | N/A   | N/A           | N/A                 | N/A | N/A           |   |
| 24      | HV             | Zone substation Buildings  | Zone substations up to 66kV                     | No. | -    | -    | -     | 50%   | 50%           | -                   | 4   | -             |   |
| 25      | HV             | Zone substation Buildings  | Zone substations 110kV+                         | No. | N/A  | N/A  | N/A   | N/A   | N/A           | N/A                 | N/A | N/A           |   |
| 26      | HV             | Zone substation switchgear   | 22/33kV CB (Indoor)                             | No. | -    | -    | -     | -     | 100.0%        | -                   | 4   | -             |   |
| 27      | HV             | Zone substation switchgear   | 22/33kV CB (Outdoor)                            | No. | -    | -    | -     | 20.0% | 80.0%         | -                   | 3   | -             |   |
| 28      | HV             | Zone substation switchgear   | 33kV Switch (Ground Mounted)                    | No. | N/A  | N/A  | N/A   | N/A   | N/A           | N/A                 | N/A | N/A           |   |
| 29      | HV             | Zone substation switchgear   | 33kV Switch (Pole Mounted)                      | No. | -    | 4.1% | 4.1%  | 27.0% | 64.9%         | -                   | 3   | 5%            |   |
| 30      | HV             | Zone substation switchgear   | 33kV RMU  | No. | -    | -    | -     | -     | 100%          | -                   | 4   | -             |   |
| 31      | HV             | Zone substation switchgear   | 50/66/110kV CB (Indoor)                         | No. | N/A  | N/A  | N/A   | N/A   | N/A           | N/A                 | N/A | N/A           |   |
| 32      | HV             | Zone substation switchgear   | 50/66/110kV CB (Outdoor)                        | No. | N/A  | N/A  | N/A   | N/A   | N/A           | N/A                 | N/A | N/A           |   |
| 33      | HV             | Zone substation switchgear   | 3.3/6.6/11/22kV CB (ground mounted)             | No. | -    | -    | -     | 22.9% | 77.1%         | -                   | 3   | -             |   |
| 34      | HV             | Zone substation switchgear   | 3.3/6.6/11/22kV CB (pole mounted)               | No. | -    | -    | -     | -     | -             | -                   | 3   | -             |   |
| 35      |                |  |   |     |      |      |       |       |               |                     |     |               |   |

|                     |                                     |
|---------------------|-------------------------------------|
| Company Name        | <b>Marlborough Lines Limited</b>    |
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**SCHEDULE 12a: REPORT ON ASSET CONDITION**

This schedule requires a breakdown of asset condition by asset class as at the start of the forecast year. The data accuracy assessment relates to the percentage values disclosed in the asset condition columns. Also required is a forecast of the percentage of units to be replaced in the next 5 years. All information should be consistent with the information provided in the AMP and the expenditure on assets forecast in Schedule 11a. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

|    |         | Asset condition at start of planning period (percentage of units by grade) |  |       |      |        |       |        |        |               |                     |  |
|----|---------|--|--|-------|------|--------|-------|--------|--------|---------------|---------------------|--|
|    | Voltage | Asset category   | Asset class  | Units | H1   | H2     | H3    | H4     | H5     | Grade unknown | Data accuracy (1-4) | % of asset forecast to be replaced in next 5 years |
| 36 |         |  |  |       |      |        |       |        |        |               |                     |  |
| 37 |         |  |  |       |      |        |       |        |        |               |                     |  |
| 38 |         |  |  |       |      |        |       |        |        |               |                     |  |
| 39 | HV      | Zone Substation Transformer  | Zone Substation Transformers                                     | No.   | -    | 3.2%   | 9.7%  | 32.3%  | 54.8%  | -             | 4                   | 13%  |
| 40 | HV      | Distribution Line  | Distribution OH Open Wire Conductor                              | km    | 1.7% | 12.2%  | 37.5% | 19.2%  | 29.1%  | 0.2%          | 3                   | 3%   |
| 41 | HV      | Distribution Line  | Distribution OH Aerial Cable Conductor                           | km    | -    | -      | -     | -      | 100.0% | -             | 4                   | -  |
| 42 | HV      | Distribution Line  | SWER conductor   | km    | -    | 8.4%   | 57.8% | 28.4%  | 5.4%   | -             | 3                   | 2%   |
| 43 | HV      | Distribution Cable   | Distribution UG XLPE or PVC                                      | km    | -    | 0.4%   | 3.0%  | 11.8%  | 84.0%  | 0.9%          | 3                   | 1%   |
| 44 | HV      | Distribution Cable   | Distribution UG PILC   | km    | -    | -      | -     | 73.3%  | 24.1%  | 2.6%          | 3                   | -  |
| 45 | HV      | Distribution Cable   | Distribution Submarine Cable                                     | km    | N/A  | N/A    | N/A   | N/A    | N/A    | N/A           | N/A                 | N/A  |
| 46 | HV      | Distribution switchgear  | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers | No.   | -    | 3.5%   | 13.3% | 21.2%  | 61.9%  | -             | 3                   | 5%   |
| 47 | HV      | Distribution switchgear  | 3.3/6.6/11/22kV CB (Indoor)                                      | No.   | -    | -      | 52.4% | -      | 47.6%  | -             | 3                   | -  |
| 48 | HV      | Distribution switchgear  | 3.3/6.6/11/22kV Switches and fuses (pole mounted)                | No.   | 1.4% | 6.0%   | 19.1% | 32.5%  | 39.4%  | 1.7%          | 3                   | 5%   |
| 49 | HV      | Distribution switchgear  | 3.3/6.6/11/22kV Switch (ground mounted) - except RMU             | No.   | 5.3% | -      | 78.9% | 15.8%  | -      | -             | 3                   | 5%   |
| 50 | HV      | Distribution switchgear  | 3.3/6.6/11/22kV RMU  | No.   | 1.0% | 2.4%   | 25.7% | 36.4%  | 34.5%  | -             | 3                   | 8%   |
| 51 | HV      | Distribution Transformer   | Pole Mounted Transformer   | No.   | -    | 9.8%   | 41.0% | 29.2%  | 19.5%  | 0.6%          | 3                   | 2%   |
| 52 | HV      | Distribution Transformer   | Ground Mounted Transformer                                       | No.   | -    | 4.5%   | 20.9% | 45.7%  | 31.7%  | 0.6%          | 3                   | 2%   |
| 53 | HV      | Distribution Transformer   | Voltage regulators   | No.   | -    | 3.6%   | -     | 67.9%  | 28.6%  | -             | 3                   | -  |
| 54 | HV      | Distribution Substations   | Ground Mounted Substation Housing                                | No.   | N/A  | N/A    | N/A   | N/A    | N/A    | N/A           | N/A                 | N/A  |
| 55 | LV      | LV Line  | LV OH Conductor  | km    | 6.5% | 13.0%  | 34.6% | 11.7%  | 5.8%   | 28.3%         | 2                   | 4%   |
| 56 | LV      | LV Cable   | LV UG Cable  | km    | -    | 0.1%   | 11.2% | 21.1%  | 65.1%  | 2.5%          | 3                   | 1%   |
| 57 | LV      | LV Streetlighting  | LV OH/UG Streetlight circuit                                     | km    | 1.5% | 3.0%   | 12.2% | 19.9%  | 54.6%  | 8.7%          | 2                   | 2%   |
| 58 | LV      | Connections  | OH/UG consumer service connections                               | No.   | N/A  | N/A    | N/A   | N/A    | N/A    | N/A           | N/A                 | N/A  |
| 59 | All     | Protection   | Protection relays (electromechanical, solid state and numeric)   | No.   | -    | -      | 43.2% | 37.9%  | 18.9%  | -             | 4                   | 15%  |
| 60 | All     | SCADA and communications   | SCADA and communications equipment operating as a single system  | Lot   | -    | -      | -     | 100.0% | -      | -             | 3                   | -  |
| 61 | All     | Capacitor Banks  | Capacitors including controls                                    | No.   | -    | 100.0% | -     | -      | -      | -             | 2                   | -  |
| 62 | All     | Load Control   | Centralised plant  | Lot   | -    | -      | -     | 33.0%  | 67.0%  | -             | 4                   | -  |
| 63 | All     | Load Control   | Relays   | No.   | N/A  | N/A    | N/A   | N/A    | N/A    | N/A           | N/A                 | N/A  |
| 64 | All     | Civils   | Cable Tunnels  | km    | N/A  | N/A    | N/A   | N/A    | N/A    | N/A           | N/A                 | N/A  |

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**SCHEDULE 12b: REPORT ON FORECAST CAPACITY**

This schedule requires a breakdown of current and forecast capacity and utilisation for each zone substation and current distribution transformer capacity. The data provided should be consistent with the information provided in the AMP. Information provided in this table should relate to the operation of the network in its normal steady state configuration.

sch ref

| 12b(i): System Growth - Zone Substations |                              |                               |  |                         |  |  |   |   |   |  |  |  |
|--|------------------------------|-------------------------------|--|-------------------------|--|--|---|---|---|--|--|--|
|  | Current Peak Load (MVA)      | Installed Firm Capacity (MVA) | Security of Supply Classification (type) | Transfer Capacity (MVA) | Utilisation or Installed Firm Capacity % | Installed Firm Capacity +5 years (MVA) | Utilisation or Installed Firm Capacity + 5yrs % | Installed Firm Capacity Constraint +5 years (cause) | Explanation   |  |  |  |
| <i>Existing Zone Substations</i>         |                              |                               |  |                         |  |  |   |   |   |  |  |  |
| 9  | Cloudy Bay Zone Substation   | 3.7                           | 16.5 n-1                                 | 8                       | 22%                                      | 16.5                                   | 55%   | No constraint within +5 years                       | Transfer of load from Riverlands Substation to Cloudy Bay planned   |  |  |  |
| 10                                       | Havelock Zone Substation     | 2.8                           | 5 n-1                                    | 2                       | 55%                                      | 5.0                                    | 55%   | No constraint within +5 years                       | Assets rated adequately to handle forecast load growth  |  |  |  |
| 11                                       | Leefield Zone Substation     | 1.3                           | - n                                      | 1                       | -  | 5.0                                    | 29%   | Transformer   | Proposed installation of second transformer within 5 years to provide additional security (not capacity related investment) |  |  |  |
| 12                                       | Linkwater Zone Substation    | 3.2                           | 5 n-1                                    | 1                       | 63%                                      | 5.0                                    | 66%   | No constraint within +5 years                       | Assets rated adequately to handle forecast load growth  |  |  |  |
| 13                                       | Nelson St Zone Substation    | 14.8                          | 16.5 n-1                                 | 10                      | 89%                                      | 16.5                                   | 101%  | Transformer   | Load transfer to adjacent substations or uprating of transformer may be required  |  |  |  |
| 14                                       | Picton Zone Substation       | 7.2                           | 15 n-1                                   | -                       | 48%                                      | 15.0                                   | 46%   | No constraint within +5 years                       | Assets rated adequately to handle forecast load growth  |  |  |  |
| 15                                       | Rai Valley Zone Substation   | 2.0                           | 3 n-1                                    | 1                       | 66%                                      | 5.0                                    | 40%   | No constraint within +5 years                       | Planned transformer replacement within 5 years due to age.  |  |  |  |
| 16                                       | Redwoodtown Zone Substation  | 10.4                          | 15 n-1                                   | 8                       | 69%                                      | 16.5                                   | 66%   | No constraint within +5 years                       | Increase in transformer capacity. Recent transfer of load from adjacent substation.   |  |  |  |
| 17                                       | Renwick Zone Substation      | 8.9                           | 10 n-1                                   | 5                       | 89%                                      | 16.5                                   | 63%   | Transformer   | New substation (including new transformers with increased capacity) currently under construction and likely available from  |  |  |  |
| 18                                       | Riverlands Zone Substation   | 8.7                           | 10 n-1                                   | 8                       | 87%                                      | 10.0                                   | 70%   | No constraint within +5 years                       | Transfer of load from Riverlands Substation to Cloudy Bay planned   |  |  |  |
| 19                                       | Seddon Zone Substation       | 5.1                           | 10 n-1                                   | 1                       | 51%                                      | 10.0                                   | 66%   | No constraint within +5 years                       | Assets rated adequately to handle forecast load growth  |  |  |  |
| 20                                       | Spring Creek Zone Substation | 4.0                           | 5 n-1                                    | 4                       | 80%                                      | 5.0                                    | 95%   | No constraint within +5 years                       | Assets rated adequately to handle forecast load growth  |  |  |  |
| 21                                       | Springlands Zone Substation  | 11.0                          | 16.5 n-1                                 | 10                      | 66%                                      | 16.5                                   | 70%   | No constraint within +5 years                       | Assets rated adequately to handle forecast load growth  |  |  |  |
| 22                                       | Ward Zone Substation         | 1.3                           | 5 n-1                                    | 1                       | 27%                                      | 5.0                                    | 30%   | No constraint within +5 years                       | Assets rated adequately to handle forecast load growth  |  |  |  |
| 23                                       | Waters Zone Substation       | 7.5                           | 16.5 n-1                                 | 10                      | 46%                                      | 16.5                                   | 48%   | No constraint within +5 years                       | Assets rated adequately to handle forecast load growth  |  |  |  |
| 24                                       | Woodbourne Zone Substation   | 9.7                           | 10 n-1                                   | 5                       | 97%                                      | 10.0                                   | 101%  | Transformer   | Transfer of load to adjacent substations may be required.   |  |  |  |

<sup>1</sup> Extend forecast capacity table as necessary to disclose all capacity by each zone substation

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**SCHEDULE 12C: REPORT ON FORECAST NETWORK DEMAND**

This schedule requires a forecast of new connections (by consumer type), peak demand and energy volumes for the disclosure year and a 5 year planning period. The forecasts should be consistent with the supporting information set out in the AMP as well as the assumptions used in developing the expenditure forecasts in Schedule 11a and Schedule 11b and the capacity and utilisation forecasts in Schedule 12b.

sch ref

**12c(i): Consumer Connections**

Number of ICPs connected in year by consumer type

|                                       | Current Year CY<br>for year ended<br>31 Mar 19 | CY+1<br>31 Mar 20 | CY+2<br>31 Mar 21 | CY+3<br>31 Mar 22 | CY+4<br>31 Mar 23 | CY+5<br>31 Mar 24 |
|---------------------------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Number of connections</b>          |  |                   |                   |                   |                   |                   |
| <i>Consumer types defined by EDB*</i> |  |                   |                   |                   |                   |                   |
| Residential                           | 167  | 200               | 180               | 180               | 180               | 180               |
| General                               | 7  | 7                 | 7                 | 7                 | 7                 | 7                 |
| Commercial and Industrial             | 4  | 4                 | 4                 | 4                 | 4                 | 4                 |
| Irrigation                            | 2  | 2                 | 2                 | 2                 | 2                 | 2                 |
| Other                                 | 8  | 8                 | 8                 | 8                 | 8                 | 8                 |
| <b>Connections total</b>              | <b>188</b>                                     | <b>221</b>        | <b>201</b>        | <b>201</b>        | <b>201</b>        | <b>201</b>        |

*\*include additional rows if needed*

**Distributed generation**

Number of connections

Capacity of distributed generation installed in year (MVA)

|  |    |     |     |     |     |     |
|--|----|-----|-----|-----|-----|-----|
| Number of connections                                      | 89 | 100 | 100 | 120 | 120 | 120 |
| Capacity of distributed generation installed in year (MVA) |    |     |     | 1   | 1   | 1   |

**12c(ii) System Demand**

**Maximum coincident system demand (MW)**

GXP demand

plus Distributed generation output at HV and above

**Maximum coincident system demand**

less Net transfers to (from) other EDBs at HV and above

**Demand on system for supply to consumers' connection points**

|  | Current Year CY<br>for year ended<br>31 Mar 19 | CY+1<br>31 Mar 20 | CY+2<br>31 Mar 21 | CY+3<br>31 Mar 22 | CY+4<br>31 Mar 23 | CY+5<br>31 Mar 24 |
|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| GXP demand   | 79   | 77                | 78                | 78                | 78                | 79                |
| plus Distributed generation output at HV and above                 | 1  | 3                 | 3                 | 3                 | 3                 | 3                 |
| <b>Maximum coincident system demand</b>                            | <b>80</b>                                      | <b>80</b>         | <b>81</b>         | <b>81</b>         | <b>81</b>         | <b>82</b>         |
| less Net transfers to (from) other EDBs at HV and above            | -  | -                 | -                 | -                 | -                 | -                 |
| <b>Demand on system for supply to consumers' connection points</b> | <b>80</b>                                      | <b>80</b>         | <b>81</b>         | <b>81</b>         | <b>81</b>         | <b>82</b>         |

**Electricity volumes carried (GWh)**

Electricity supplied from GXPs

less Electricity exports to GXPs

plus Electricity supplied from distributed generation

less Net electricity supplied to (from) other EDBs

**Electricity entering system for supply to ICPs**

less Total energy delivered to ICPs

**Losses**

**Load factor**

**Loss ratio**

|   |             |             |             |             |             |             |
|---|-------------|-------------|-------------|-------------|-------------|-------------|
| Electricity supplied from GXPs                        | 385         | 387         | 388         | 390         | 393         | 395         |
| less Electricity exports to GXPs                      | -           | -           | -           | -           | -           | -           |
| plus Electricity supplied from distributed generation | 16          | 16          | 17          | 17          | 18          | 18          |
| less Net electricity supplied to (from) other EDBs    | -           | -           | -           | -           | -           | -           |
| <b>Electricity entering system for supply to ICPs</b> | <b>401</b>  | <b>403</b>  | <b>405</b>  | <b>407</b>  | <b>411</b>  | <b>413</b>  |
| less Total energy delivered to ICPs                   | 381         | 383         | 385         | 387         | 389         | 391         |
| <b>Losses</b>   | <b>20</b>   | <b>20</b>   | <b>20</b>   | <b>20</b>   | <b>22</b>   | <b>22</b>   |
| <b>Load factor</b>                                    | <b>57%</b>  | <b>58%</b>  | <b>57%</b>  | <b>57%</b>  | <b>58%</b>  | <b>57%</b>  |
| <b>Loss ratio</b>                                     | <b>5.0%</b> | <b>5.0%</b> | <b>4.9%</b> | <b>4.9%</b> | <b>5.4%</b> | <b>5.3%</b> |

|                            |                              |
|----------------------------|------------------------------|
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| Network / Sub-network Name |                              |

**SCHEDULE 12d: REPORT FORECAST INTERRUPTIONS AND DURATION**

This schedule requires a forecast of SAIFI and SAIDI for disclosure and a 5 year planning period. The forecasts should be consistent with the supporting information set out in the AMP as well as the assumed impact of planned and unplanned SAIFI and SAIDI on the expenditures forecast provided in Schedule 11a and Schedule 11b.

| sch ref |  | Current Year CY | CY+1      | CY+2      | CY+3      | CY+4      | CY+5      |
|---------|--|-----------------|-----------|-----------|-----------|-----------|-----------|
|         | for year ended                                   | 31 Mar 19       | 31 Mar 20 | 31 Mar 21 | 31 Mar 22 | 31 Mar 23 | 31 Mar 24 |
| 8       |  |                 |           |           |           |           |           |
| 9       |  |                 |           |           |           |           |           |
| 10      | <b>SAIDI</b>                                     |                 |           |           |           |           |           |
| 11      | Class B (planned interruptions on the network)   | 49.0            | 65.0      | 65.0      | 65.0      | 65.0      | 65.0      |
| 12      | Class C (unplanned interruptions on the network) | 86.0            | 80.0      | 80.0      | 80.0      | 80.0      | 80.0      |
| 13      | <b>SAIFI</b>                                     |                 |           |           |           |           |           |
| 14      | Class B (planned interruptions on the network)   | 0.31            | 0.35      | 0.35      | 0.35      | 0.35      | 0.35      |
| 15      | Class C (unplanned interruptions on the network) | 0.70            | 0.67      | 0.67      | 0.67      | 0.67      | 0.67      |

Company Name Marlborough Lines Limited

For Year Ended 31 March 2019

## Schedule 14 Mandatory Explanatory Notes

*(Guidance Note: This Microsoft Word version of Schedules 14, 14a and 15 is from the Electricity Distribution Information Disclosure Determination 2012 – as amended and consolidated 3 April 2018. Clause references in this template are to that determination)*

1. This schedule requires EDBs to provide explanatory notes to information provided in accordance with clauses 2.3.1, 2.4.21, 2.4.22 and subclauses 2.5.1(1)(f), and 2.5.1(1)(e).
2. This schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.1. Information provided in boxes 1 to 11 of this schedule is part of the audited disclosure information, and so is subject to the assurance requirements specified in section 2.8.
3. Schedule 15 (Voluntary Explanatory Notes to Schedules) provides for EDBs to give additional explanation of disclosed information should they elect to do so.

### *Return on Investment (Schedule 2)*

4. In the box below, comment on return on investment as disclosed in Schedule 2. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

#### **Box 1: Explanatory comment on return on investment**

MLL achieved a post tax return on investment (ROI) of 2.44% and an ROI comparable to the vanilla WACC of 2.95%. These are both well below the mid-point regulated WACC of 4.75% and 5.26% respectively.

This low result is in part due to the manner in which the ROI is calculated, which treats posted discounts (such as MLLs) as a deduction to revenue (line charge revenue is net of discounts) whereas if the company's discount was discretionary, like many other EDBs in the industry, then the discount is not included in the calculation. If the company's discount was discretionary, rather than posted, then the ROI result would have been 6.38% (post tax) or 6.89% (vanilla).

Schedule 2 (iii) has not been completed as the value of assets commissioned for 2019 is less than 10% of our total opening RAB value (IDD 2.3.3).

No items were reclassified in the disclosure year.

### *Regulatory Profit (Schedule 3)*

5. In the box below, comment on regulatory profit for the disclosure year as disclosed in Schedule 3. This comment must include-



**Box 6: Tax effect of other temporary differences (current disclosure year)**

The tax effect of temporary differences includes the following:

|                                       |          |
|---------------------------------------|----------|
| Increase in employee provisions       | \$34k    |
| Decrease in bad debts provisions      | (\$2k)   |
| Amortisation of capital contributions | \$50k    |
| Deductible expenditure                | (\$188k) |

*Cost allocation (Schedule 5d)*

10. In the box below, comment on cost allocation as disclosed in Schedule 5d. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

**Box 7: Cost allocation**

Cost allocation is based on Marlborough Lines Contracting business unit being fully absorbed into the regulatory business as a consolidated group entity.

Non-directly attributable cost from the contracting business unit has been allocated to the regulatory business based on the proportion of labour used for that category of work.

No items have been reclassified in the disclosure year.

*Asset allocation (Schedule 5e)*

11. In the box below, comment on asset allocation as disclosed in Schedule 5e. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).



**Box 8: Commentary on asset allocation**

All costs incurred are directly attributable. All costs (time, plant and materials) are directly coded to the particular asset capital project and no cost allocation has taken place.

No items were reclassified in the disclosure year.

*Capital Expenditure for the Disclosure Year (Schedule 6a)*

12. In the box below, comment on expenditure on assets for the disclosure year, as disclosed in Schedule 6a. This comment must include-

- 12.1 a description of the materiality threshold applied to identify material projects and programmes described in Schedule 6a;

12.2 information on reclassified items in accordance with subclause 2.7.1(2).

**Box 9: Explanation of capital expenditure for the disclosure year**

No general threshold has been applied to identify which programme a capital job has been placed in, however each job has been looked at and placed in the programme or project that was the main driver for that project.

There have been no reclassifications in accordance with clause 2.7.1(2).

*Operational Expenditure for the Disclosure Year (Schedule 6b)*

13. In the box below, comment on operational expenditure for the disclosure year, as disclosed in Schedule 6b. This comment must include-

13.1 Commentary on assets replaced or renewed with asset replacement and renewal operational expenditure, as reported in 6b(i) of Schedule 6b;

13.2 Information on reclassified items in accordance with subclause 2.7.1(2);

13.3 Commentary on any material atypical expenditure included in operational expenditure disclosed in Schedule 6b, including the value of the expenditure the purpose of the expenditure, and the operational expenditure categories the expenditure relates to.

**Box 10: Explanation of operational expenditure for the disclosure year**

Asset replacement and renewal opex relates to where assets are replaced as part of a larger line asset, where the service potential is not improved. For example this may include items where crossarms are replaced but the pole is not.

There have been no reclassifications in accordance with clause 2.7.1(2).

There have been no items of atypical expenditure.

*Variance between forecast and actual expenditure (Schedule 7)*

14. In the box below, comment on variance in actual to forecast expenditure for the disclosure year, as reported in Schedule 7. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).



**Box 11: Explanatory comment on variance in actual to forecast expenditure**

Overall, total expenditure was greater than forecast by 11%. Expenditure on assets was 18% greater than forecast, with operating expenditure 5% higher than that forecast.

Our capital expenditure variance largely relates to the timing of projects and enhancements to project scope.

No items have been reclassified in the disclosure year.

*Information relating to revenues and quantities for the disclosure year*

15. In the box below provide-

- 15.1 a comparison of the target revenue disclosed before the start of the disclosure year, in accordance with clause 2.4.1 and subclause 2.4.3(3) to total billed line charge revenue for the disclosure year, as disclosed in Schedule 8; and
- 15.2 explanatory comment on reasons for any material differences between target revenue and total billed line charge revenue.

**Box 12: Explanatory comment relating to revenue for the disclosure year**

Line charge revenue for 2019 of \$37.176m (net of our posted discount of \$8.412m) is 1.7% above target revenue of \$36.556m as a result of improved volumes. Volumes are 3.5% greater than last year.

*Network Reliability for the Disclosure Year (Schedule 10)*

16. In the box below, comment on network reliability for the disclosure year, as disclosed in Schedule 10.

**Box 13: Commentary on network reliability for the disclosure year**

Normalised SAIDI for the year was 129 minutes, slightly up on last year's result of 121 minutes which was our lowest SAIDI result on record. The result was below the Company's forecast total SAIDI of 145 minutes from the Company's 2018 Asset Management Plan.

Unplanned SAIDI for the year was 81.2 minutes, above the Company's forecast of 80 minutes. In some instances restoration of supply was delayed to ensure the safety of the public where there was extreme fire risk or reported potential hazards, such as lines down.

Normalised SAIFI of 1.02 is in line with our five year trend.

*Insurance cover*

17. In the box below, provide details of any insurance cover for the assets used to provide electricity distribution services, including-

- 17.1 The EDB's approaches and practices in regard to the insurance of assets used to provide electricity distribution services, including the level of insurance;
- 17.2 In respect of any self insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.

**Box 14: Explanation of insurance cover**

Insurance cover has been maintained across all aspects of the business.

The property insurance programme does not include cover subtransmission and distribution lines. In the prevailing insurance market conditions, coverage for subtransmission and distribution lines is difficult to obtain and very expensive.

*Amendments to previously disclosed information*

18. In the box below, provide information about amendments to previously disclosed information disclosed in accordance with clause 2.12.1 in the last 7 years, including:
  - 18.1 a description of each error; and
  - 18.2 for each error, reference to the web address where the disclosure made in accordance with clause 2.12.1 is publicly disclosed.

**Box 15: Disclosure of amendment to previously disclosed information**

There have been no amendments to previously disclosed information.

Company Name Marlborough Lines Limited  
For Year Ended 31 March 2019

## **Schedule 14a Mandatory Explanatory Notes on Forecast Information**

*(In this Schedule, clause references are to the Electricity Distribution Information Disclosure Determination 2012 – as amended and consolidated 3 April 2018.)*

1. This Schedule requires EDBs to provide explanatory notes to reports prepared in accordance with clause 2.6.6.
2. This Schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.2. This information is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.

*Commentary on difference between nominal and constant price capital expenditure forecasts (Schedule 11a)*

3. In the box below, comment on the difference between nominal and constant price capital expenditure for the current disclosure year and 10 year planning period, as disclosed in Schedule 11a.

**Box 1: Commentary on difference between nominal and constant price capital expenditure forecasts**  
Please refer to Section 10.1.1 of the 2018 Asset Management Plan.

*Commentary on difference between nominal and constant price operational expenditure forecasts (Schedule 11b)*

4. In the box below, comment on the difference between nominal and constant price operational expenditure for the current disclosure year and 10 year planning period, as disclosed in Schedule 11b.

**Box 2: Commentary on difference between nominal and constant price operational expenditure forecasts**  
Please refer to Section 10.1.1 of the 2018 Asset Management Plan.

Company Name Marlborough Lines Limited

For Year Ended 31 March 2019

## **Schedule 15 Voluntary Explanatory Notes**

*(In this Schedule, clause references are to the Electricity Distribution Information Disclosure Determination 2012 – as amended and consolidated 3 April 2018.)*

1. This schedule enables EDBs to provide, should they wish to-
  - 1.1 additional explanatory comment to reports prepared in accordance with clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1 and 2.5.2;
  - 1.2 information on any substantial changes to information disclosed in relation to a prior disclosure year, as a result of final wash-ups.
2. Information in this schedule is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.
3. Provide additional explanatory comment in the box below.

**Box 1: Voluntary explanatory comment on disclosed information****Line charge revenue**

Schedule 3: Line charge revenue has been calculated post discount. The discount amount is specified in Schedule 8(ii) at \$8.412m.

**Weighted average remaining lives**

Schedule 4(vii) provides weighted average remaining lives as well as average expected total life. The required method of calculation weights the lives using the opening RAB value of the asset. As this value is a depreciated value it skews the weighted average remaining useful life towards the newer assets providing an indication that the overall network is much younger than it actually is. It is therefore not a good indicator of the average life of our network.

**Reliability Information**

In accordance with the notification issued by the Commerce Commission on 22 August 2019 the Company discloses the following:

- The reliability information disclosed in Schedule 10 has been prepared on a basis consistent with the previous year's disclosure.
- The Company's outage recording software recognises successive interruptions following an initial outage by recording separate interruptions due to restoration and isolation of the initial outage, with the SAIFI value higher as a result.

**Related Party Information**

For the year ended 31 March 2019, the Company has determined that their contracting business unit is not a related party. The Company has determined this on the basis that the contracting business unit does not fall within the definition of a related party because it (a) does not meet the definition of a 'related party' in NZ IAS 24, and (b) is deemed to not be a 'part' of the EDB that supplies electricity distribution services, as its activity is closely associated with that of the regulated company and its external sales do not exceed the level of internal sales.

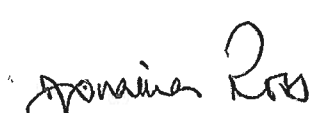
## Schedule 18 Certification for Year-end Disclosures

### Clause 2.9.2

We, Kenneth John Forrest and Christopher Jonathan Ross, being directors of Marlborough Lines Limited certify that, having made all reasonable enquiry, to the best of our knowledge:

- a) the information prepared for the purposes of clauses 2.3.1, 2.3.2, 2.4.21, 2.4.22, 2.5.1, 2.5.2, and 2.7.1 of the Electricity Distribution Information Disclosure Determination 2012 in all material respects complies with that determination; and
- b) the historical information used in the preparation of Schedules 8, 9a, 9b, 9c, 9d, 9e, 10 and 14 has been properly extracted from Marlborough Lines Limited's accounting and other records sourced from its financial and non-financial systems, and that sufficient appropriate records have been retained; and
- c) In respect of information concerning assets, costs and revenues valued or disclosed in accordance with clause 2.3.6 of the Electricity Distribution Information Disclosure Determination 2012 and clauses 2.2.11(1)(g) and 2.2.11(5) of the Electricity Distribution Services Input Methodologies Determination 2012, we are satisfied that:
  - i. the costs and values of assets or goods or services acquired from a related party comply, in all material respects, with clauses 2.3.6(1) and 2.3.6(3) of the Electricity Distribution Information Disclosure Determination 2012 and clauses 2.2.11(1)(g) and 2.2.11(5)(a)-2.2.11(5)(b) of the Electricity Distribution Services Input Methodologies Determination 2012; and
  - ii. the value of assets or goods or services sold or supplied to a related party comply, in all material respects, with clause 2.3.6(2) of the Electricity Distribution Information Disclosure Determination 2012.

  
Kenneth John Forrest

  
Christopher Jonathan Ross

23 August 2019



## INDEPENDENT ASSURANCE REPORT

### TO THE DIRECTORS OF MARLBOROUGH LINES LIMITED AND THE COMMERCE COMMISSION

The Auditor-General is the auditor of Marlborough Lines Limited (the Company). The Auditor-General has appointed me, Michael Wilkes, using the staff and resources of Deloitte Limited, to provide an opinion, on his behalf, on:

- whether the information required to be disclosed in accordance with the Electricity Distribution Information Disclosure Determination 2012 ('the Information Disclosure Determination') for the disclosure year ended 31 March 2019, has been prepared, in all material respects, in accordance with the Information Disclosure Determination.

The disclosure information required to be reported by the Company, and audited by the Auditor-General, under the Information Disclosure Determination, is in schedules 1 to 4, 5a to 5g, 6a and 6b, 7, the disclosure in schedule 5b that shows the connection between the Company and the related parties with which it has had related party transactions in the disclosure year, and the explanatory notes in boxes 1 to 11 in Schedule 14 ('the Disclosure Information').

- whether the Company's basis for valuation of related party transactions ('the Related Party Transaction Information') for the disclosure year ended 31 March 2019, has been prepared, in all material respects, in accordance with clause 2.3.6 of the Information Disclosure Determination, and clauses 2.2.11(1)(g) and 2.2.11(5) of the Electricity Distribution Services Input Methodologies Determination 2012 ('the Input Methodologies Determination').

### Opinion

In our opinion:

- as far as appears from an examination of them, proper records to enable the complete and accurate compilation of the Disclosure Information have been kept by the Company;
- as far as appears from an examination, the information used in the preparation of the Disclosure Information has been properly extracted from the Company's accounting and other records and has been sourced, where appropriate, from the Company's financial and non-financial systems;
- the Disclosure Information complies, in all material respects, with the Information Disclosure Determination; and
- the Related Party Transaction Information complies, in all material respects, with the Information Disclosure Determination and the Input Methodologies Determination.

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

### Basis for opinion

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

These standards require that we comply with ethical requirements and plan and perform our assurance engagement to provide reasonable assurance about whether the Disclosure Information has been prepared, in all material respects, with the Information Disclosure Determination, and about whether the Related Party Transaction Information has been prepared, in all material respects, with the Information Disclosure Determination and the Input Methodologies Determination. Reasonable assurance is a high level of assurance.

We have performed procedures to obtain evidence about the amounts and disclosures in the Disclosure Information, and the basis of valuation in the Related Party Transaction Information. The procedures selected depend on our judgement, including the assessment of the risks of material misstatement of the Disclosure Information and the Related Party Transaction Information, whether due to fraud, error

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or non-compliance with the Information Disclosure Determination or the Input Methodologies Determination. In making those risk assessments, we considered internal control relevant to the Company's preparation of the Disclosure Information and the Related Party Transaction Information in order to design procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.

### Scope and inherent limitations

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

We did not examine every transaction, adjustment or event underlying the Disclosure Information or the Related Party Transaction Information, nor do we guarantee complete accuracy of the Disclosure Information or the Related Party Transaction Information. Also we did not evaluate the security and controls over the electronic publication of the Disclosure Information or the Related Party Transaction Information.

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

### Key Audit Matters

Key audit matters are those matters that, in our professional judgement, required significant attention when carrying out the assurance engagement during the current disclosure year. These matters were addressed in the context of our audit, and in forming our opinion. We do not provide a separate opinion on these matters.

| Key audit matter  | How our procedures addressed the key audit matter  |
|---|--|
| <p><b><i>Determining related parties</i></b></p> <p>The Information Disclosure Determination and the Input Methodologies Determination place a requirement on the Company to consider whether transactions should be related-party transactions.</p> <p>Schedule 5b lists all related parties and related party transactions applicable for the disclosure year under review, and outlines the Company's judgement about the contracting network services delivery team not being deemed a related party.</p> <p>Assessment of related-party transactions is a key audit matter because it is determined by applying complex rules as set out in the Information Disclosure Determination and involves considerable judgement by the Company.</p> | <p>We have obtained an understanding of the company's approach to assessing related-party transactions in accordance with the Information Disclosure Determination and the Input Methodologies Determination.</p> <p>The procedures we have carried out to satisfy ourselves that related-party transactions are appropriately identified and considered as related-party included:</p> <ul style="list-style-type: none"><li>• challenging whether all related party transactions had been included by comparison to our understanding of the Company's business model; and</li><li>• challenging whether the contracting division should be considered as part of the business or whether the transactions between the contracting division and network division are related party transactions.</li></ul> |





## **Directors' responsibility for the preparation of the Disclosure Information and Related Party Transaction Information**

The directors of the Company are responsible for:

- the preparation of the Disclosure Information in accordance with the Information Disclosure Determination, and
- the Related Party Transaction Information in accordance with the Information Disclosure Determination and the Input Methodologies Determination,

and for such internal control as the directors determine is necessary to enable the preparation of the Disclosure Information and the Related Party Transaction Information that are free from material misstatement.

## **Our responsibility for the audit of the Disclosure Information and the Related Party Transaction Information**

Our responsibility is to express an opinion that provides reasonable assurance on whether:

- the Disclosure Information has been prepared, in all material respects, in accordance with the Information Disclosure Determination; and
- the Related Party Transaction Information has been prepared, in all material respects, in accordance with the Information Disclosure Determination and the Input Methodologies Determination.

## **Independence and quality control**

When carrying out the engagement, we complied with:

- the Auditor-General's independence and other ethical requirements, which incorporate the independence and ethical requirements of Professional and Ethical Standard 1 (Revised) issued by the New Zealand Auditing and Assurance Standards Board;
- the independence requirements specified in the Information Disclosure Determination; and
- the Auditor-General's quality control requirements, which incorporate the quality control requirements of Professional and Ethical Standard 3 (Amended) issued by the New Zealand Auditing and Assurance Standards Board.

The Auditor-General, and his employees, and Deloitte Limited, and its partners and employees, may deal with the Company on normal terms within the ordinary course of trading activities of the Company. Other than any dealings on normal terms within the ordinary course of business, this engagement, and the annual audit of the Company's financial statements, we have no relationship with or interests in the Company.

## **Use of this report**

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

Michael Wilkes  
Deloitte Limited  
On behalf of the Auditor-General  
Christchurch, New Zealand  
23 August 2019