EDB Information Disclosure Requirements

Information Templates

for

Schedules 1–10

Company Name	Marlborough Lines Limited
Disclosure Date	29 August 2018
Disclosure Year (year ended)	31 March 2018

Templates for Schedules 1–10 excluding 5f–5g
Template Version 4.1. Prepared 24 March 2015

Table of Contents

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 24 March 2015). 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 2018**

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

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)
Operational expenditure	39,494	589	203,944	4,418	46,303
Network	17,354	259	89,617	1,941	20,347
Non-network	22,139	330	114,326	2,476	25,957
Expenditure on assets	30,419	454	157,083	3,403	35,664
Network	26,545	396	137,079	2,969	31,122
Non-network	3,874	58	20,004	433	4,542

1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs ($/GWh)	Revenue per average no. of ICPs ($/ICP)
Total consumer line charge revenue	94,804	1,415
Standard consumer line charge revenue	94,623	1,412
Non-standard consumer line charge revenue	–	–

1(iii): Service intensity measures

Demand density	22	*Maximum coincident system demand per km of circuit length (for supply) (kW/km)*
Volume density	112	*Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)*
Connection point density	7	*Average number of ICPs per km of circuit length (for supply) (ICPs/km)*
Energy intensity	14,924	*Total energy delivered to ICPs per average number of ICPs (kWh/ICP)*

1(iv): Composition of regulatory income

	($000)	% of revenue
Operational expenditure	14,956	40.98%
Pass-through and recoverable costs excluding financial incentives and wash-ups	8,387	22.98%
Total depreciation	9,804	26.86%
Total revaluations	2,443	6.69%
Regulatory tax allowance	879	2.41%
Regulatory profit/(loss) including financial incentives and wash-ups	4,916	13.47%
Total regulatory income	36,500	

1(v): Reliability

Interruption rate	19.17	*Interruptions per 100 circuit km*

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**

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		CY-2	CY-1	Current Year CY
7	**2(i): Return on Investment**			
8		31 Mar 16	31 Mar 17	31 Mar 18
9	**ROI – comparable to a post tax WACC**	%	%	%
10	Reflecting all revenue earned	1.74%	2.09%	1.64%
11	Excluding revenue earned from financial incentives	1.74%	2.09%	1.64%
12	Excluding revenue earned from financial incentives and wash-ups	1.74%	2.09%	1.64%
13				
14	**Mid-point estimate of post tax WACC**	5.37%	4.77%	5.04%
15	25th percentile estimate	4.66%	4.05%	4.36%
16	75th percentile estimate	6.09%	5.48%	5.72%
17				
18				
19	**ROI – comparable to a vanilla WACC**			
20	Reflecting all revenue earned	2.38%	2.63%	2.24%
21	Excluding revenue earned from financial incentives	2.38%	2.63%	2.24%
22	Excluding revenue earned from financial incentives and wash-ups	2.38%	2.63%	2.24%
23				
24	**WACC rate used to set regulatory price path**	n/a	n/a	n/a
25				
26	**Mid-point estimate of vanilla WACC**	6.02%	5.31%	5.60%
27	25th percentile estimate	5.30%	4.59%	4.92%
28	75th percentile estimate	6.74%	6.03%	6.29%
29				

30	**2(ii): Information Supporting the ROI**		($000)	
31				
32	Total opening RAB value	222,062		
33	*plus* Opening deferred tax	(2,925)		
34	**Opening RIV**		219,137	
35				
36	**Line charge revenue**		35,902	
37				
38	Expenses cash outflow	23,343		
39	*add* Assets commissioned	8,949		
40	*less* Asset disposals	1,197		
41	*add* Tax payments	88		
42	*less* Other regulated income	598		
43	**Mid-year net cash outflows**		30,585	
44				
45	**Term credit spread differential allowance**		–	
46				
47	Total closing RAB value	222,453		
48	*less* Adjustment resulting from asset allocation	–		
49	*less* Lost and found assets adjustment	–		
50	*plus* Closing deferred tax	(3,717)		
51	**Closing RIV**		218,736	
52				
53	**ROI – comparable to a vanilla WACC**			2.24%
54				
55	Leverage (%)			44%
56	Cost of debt assumption (%)			4.80%
57	Corporate tax rate (%)			28%
58				
59	**ROI – comparable to a post tax WACC**			1.64%
60				

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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

2(iii): Information Supporting the Monthly ROI

Opening RIV — N/A

	Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
April						–
May						–
June						–
July						–
August						–
September						–
October						–
November						–
December						–
January						–
February						–
March						–
Total	–	–	–	–	–	–

Tax payments — N/A

Term credit spread differential allowance — N/A

Closing RIV — N/A

Monthly ROI – comparable to a vanilla WACC — N/A

Monthly ROI – comparable to a post tax WACC — N/A

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

Year-end ROI – comparable to a vanilla WACC — 2.20%

Year-end ROI – comparable to a post tax WACC — 1.61%

** 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.*

2(v): Financial Incentives and Wash-Ups

Net recoverable costs allowed under incremental rolling incentive scheme	–	
Purchased assets – avoided transmission charge		
Energy efficiency and demand incentive allowance		
Quality incentive adjustment		
Other financial incentives		
Financial incentives		–
Impact of financial incentives on ROI		–
Input methodology claw-back		
Recoverable customised price-quality path costs		
Catastrophic event allowance		
Capex wash-up adjustment		
Transmission asset wash-up adjustment		
2013–2015 NPV wash-up allowance		
Reconsideration event allowance		
Other wash-ups		
Wash-up costs		–
Impact of wash-up costs on ROI		–

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**

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)
7	**3(i): Regulatory Profit**		
8		**Income**	
9		Line charge revenue	35,902
10	*plus*	Gains / (losses) on asset disposals	(65)
11	*plus*	Other regulated income (other than gains / (losses) on asset disposals)	663
12			
13		**Total regulatory income**	36,500
14		**Expenses**	
15	*less*	Operational expenditure	14,956
16			
17	*less*	Pass-through and recoverable costs excluding financial incentives and wash-ups	8,387
18			
19		**Operating surplus / (deficit)**	13,157
20			
21	*less*	Total depreciation	9,804
22			
23	*plus*	Total revaluations	2,443
24			
25		**Regulatory profit / (loss) before tax**	5,795
26			
27	*less*	Term credit spread differential allowance	–
28			
29	*less*	Regulatory tax allowance	879
30			
31		**Regulatory profit/(loss) including financial incentives and wash-ups**	4,916
32			

			($000)	
33	**3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups**			
34		**Pass through costs**		
35		Rates	73	
36		Commerce Act levies	34	
37		Industry levies	82	
38		CPP specified pass through costs		
39		**Recoverable costs excluding financial incentives and wash-ups**		
40		Electricity lines service charge payable to Transpower	7,581	
41		Transpower new investment contract charges	436	
42		System operator services		
43		Distributed generation allowance	181	
44		Extended reserves allowance		
45		Other recoverable costs excluding financial incentives and wash-ups		
46		**Pass-through and recoverable costs excluding financial incentives and wash-ups**		8,387
47				

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**

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).
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sch ref

3(iii): Incremental Rolling Incentive Scheme

($000)

		CY-1 31 Mar 17	CY 31 Mar 18
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
57	CY-5	31 Mar 13		
58	CY-4	31 Mar 14		
59	CY-3	31 Mar 15		
60	CY-2	31 Mar 16		
61	CY-1	31 Mar 17		
62	**Net incremental rolling incentive scheme**			–
63				
64	**Net recoverable costs allowed under incremental rolling incentive scheme**			–

3(iv): Merger and Acquisition Expenditure

		($000)
66	Merger and acquisition expenditure	–
67		
68	*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)*	

3(v): Other Disclosures

		($000)
71	Self-insurance allowance	–

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**

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 31 Mar 14 ($000)	RAB 31 Mar 15 ($000)	RAB 31 Mar 16 ($000)	RAB 31 Mar 17 ($000)	RAB 31 Mar 18 ($000)
10		**Total opening RAB value**	207,971	215,025	217,515	221,244	222,062
12	*less*	**Total depreciation**	9,120	9,203	9,495	10,075	9,804
14	*plus*	**Total revaluations**	3,188	180	1,276	4,794	2,443
16	*plus*	**Assets commissioned**	13,161	11,814	12,329	6,868	8,949
18	*less*	**Asset disposals**	175	301	381	769	1,197
20	*plus*	**Lost and found assets adjustment**					–
22	*plus*	**Adjustment resulting from asset allocation**					–
24		**Total closing RAB value**	215,025	217,515	221,244	222,062	222,453

4(ii): Unallocated Regulatory Asset Base

			Unallocated RAB * ($000)	Unallocated RAB * ($000)	RAB ($000)	RAB ($000)
29		**Total opening RAB value**		222,062		222,062
31	*less*	**Total depreciation**		9,804		9,804
33	*plus*	**Total revaluations**		2,443		2,443
35	*plus*	Assets commissioned (other than below)	8,949		8,949	
36		Assets acquired from a regulated supplier	–		–	
37		Assets acquired from a related party	–		–	
38		**Assets commissioned**		8,949		8,949
40	*less*	Asset disposals (other than below)	1,197		1,197	
41		Asset disposals to a regulated supplier	–		–	
42		Asset disposals to a related party	–		–	
43		**Asset disposals**		1,197		1,197
45	*plus*	**Lost and found assets adjustment**		–		–
47	*plus*	**Adjustment resulting from asset allocation**				–
49		**Total closing RAB value**		222,453		222,453

** 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.*

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For Year Ended	**31 March 2018**

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

54		CPI_4	1,011
55		CPI_4^{-4}	1,000
56		Revaluation rate (%)	1.10%

		Unallocated RAB *		RAB	
		($000)	($000)	($000)	($000)
60		Total opening RAB value	222,062		222,062	
61	*less*	Opening value of fully depreciated, disposed and lost assets	–		–	
62						
63		Total opening RAB value subject to revaluation	222,062		222,062	
64		**Total revaluations**		2,443		2,443

4(iv): Roll Forward of Works Under Construction

			Unallocated works under construction		Allocated works under construction	
68		**Works under construction—preceding disclosure year**		1,777		1,777
69	*plus*	Capital expenditure	11,421		11,421	
70	*less*	Assets commissioned	8,949		8,949	
71	*plus*	Adjustment resulting from asset allocation			–	
72		**Works under construction - current disclosure year**		4,249		4,249
73						
74		Highest rate of capitalised finance applied				–

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

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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(v): Regulatory Depreciation

		Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
	Depreciation - standard	9,804		9,804	
	Depreciation - no standard life assets	–		–	
	Depreciation - modified life assets	–		–	
	Depreciation - alternative depreciation in accordance with CPP	–		–	
	Total depreciation		9,804		9,804

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

** include additional rows if needed*

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
	Total opening RAB value	19,475	8,120	38,070	49,077	44,624	22,789	16,643	6,885	16,379	222,062
less	Total depreciation	637	202	1,036	2,198	1,427	957	823	475	2,049	9,804
plus	Total revaluations	214	89	419	540	491	251	183	76	180	2,443
plus	Assets commissioned	1,659	327	1,395	1,095	615	643	627	1,259	1,329	8,949
less	Asset disposals	47	–	294	41	14	40	138	–	623	1,197
plus	Lost and found assets adjustment										–
plus	Adjustment resulting from asset allocation										–
plus	Asset category transfers										–
	Total closing RAB value	20,664	8,334	38,554	48,473	44,289	22,686	16,492	7,745	15,216	222,453
	Asset Life										
	Weighted average remaining asset life	45.0	42.6	33.5	38.7	36.2	28.3	26.1	10.3	12.3	(years)
	Weighted average expected total asset life	59.3	53.8	43.0	57.1	50.4	45.2	39.4	13.0	25.7	(years)

Company Name	**Marlborough Lines Limited**
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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 2.8.

sch ref

5a(i): Regulatory Tax Allowance

					($000)
8		**Regulatory profit / (loss) before tax**			5,795
9					
10	*plus*	Income not included in regulatory profit / (loss) before tax but taxable	–	*	
11		Expenditure or loss in regulatory profit / (loss) before tax but not deductible	64	*	
12		Amortisation of initial differences in asset values	3,359		
13		Amortisation of revaluations	886		
14					4,309
15					
16	*less*	Total revaluations	2,443		
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	4,521		
21					6,964
22					
23		**Regulatory taxable income**			3,141
24					
25	*less*	Utilised tax losses	–		
26		Regulatory net taxable income			3,141
27					
28		Corporate tax rate (%)	28%		
29		**Regulatory tax allowance**			879
30					

31 * Workings to be provided in Schedule 14

5a(ii): Disclosure of Permanent Differences

33 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	104,139	
37	*less*	Amortisation of initial differences in asset values	3,359	
38	*plus*	Adjustment for unamortised initial differences in assets acquired	–	
39	*less*	Adjustment for unamortised initial differences in assets disposed	792	
40		Closing unamortised initial differences in asset values		99,988
41				
42		Opening weighted average remaining useful life of relevant assets (years)		31
43				

Company Name	**Marlborough Lines Limited**
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SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

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sch ref				
44	**5a(iv): Amortisation of Revaluations**			**($000)**
45				
46		Opening sum of RAB values without revaluations	207,464	
47				
48		Adjusted depreciation	8,918	
49		Total depreciation	9,804	
50		Amortisation of revaluations		886
51				
52	**5a(v): Reconciliation of Tax Losses**			**($000)**
53				
54		**Opening tax losses**	–	
55	*plus*	Current period tax losses	–	
56	*less*	Utilised tax losses	–	
57		**Closing tax losses**		–
58	**5a(vi): Calculation of Deferred Tax Balance**			**($000)**
59				
60		**Opening deferred tax**	(2,925)	
61				
62	*plus*	Tax effect of adjusted depreciation	2,497	
63				
64	*less*	Tax effect of tax depreciation	2,037	
65				
66	*plus*	Tax effect of other temporary differences*	(253)	
67				
68	*less*	Tax effect of amortisation of initial differences in asset values	941	
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	58	
73				
74	*plus*	Deferred tax cost allocation adjustment	–	
75				
76		**Closing deferred tax**		(3,717)
77				
78	**5a(vii): Disclosure of Temporary Differences**			
79		*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).*		
80				
81	**5a(viii): Regulatory Tax Asset Base Roll-Forward**			
82				**($000)**
83		**Opening sum of regulatory tax asset values**	78,641	
84	*less*	Tax depreciation	7,274	
85	*plus*	Regulatory tax asset value of assets commissioned	7,995	
86	*less*	Regulatory tax asset value of asset disposals	1,405	
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**		77,957

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**

SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

This schedule provides information on the valuation of related party transactions, in accordance with section 2.3.6 and 2.3.7 of the ID 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

5b(i): Summary—Related Party Transactions

	($000)
Total regulatory income	
Operational expenditure	52
Capital expenditure	146
Market value of asset disposals	
Other related party transactions	

5b(ii): Entities Involved in Related Party Transactions

Name of related party	Related party relationship
Cuddon Ltd	Directors Relationship
Yealands Estate Wines Ltd	Directors Relationship and subsidiary
Precast Systems	Directors Relationship
Construction Coatings	Directors Relationship
Robinson Construction Ltd	Directors Relationship

** include additional rows if needed*

5b(iii): Related Party Transactions

Name of related party	Related party transaction type	Description of transaction	Value of transaction ($000)	Basis for determining value
Cuddon Ltd	Opex	purchase of goods and services	35	ID clause 2.3.6(1)(d)
Cuddon Ltd	Capex	purchase of air conditioners	9	IM clause 2.2.11(5)(a)(i)
Yealands Estate Wines Ltd	Opex	purchase of goods and services	12	ID clause 2.3.6(1)(d)
Precast Systems	Capex	concrete product, pads anchor blocks	28	IM clause 2.2.11(5)(a)(i)
Construction Coatings	Opex	painting at various sites	4	ID clause 2.3.6(1)(d)
Scaffold Marlborough	Opex	Hire of Scaffolding	1	ID clause 2.3.6(1)(d)
Robinson Construction Ltd	Capex	Seismic strengthening at substations	109	IM clause 2.2.11(5)(a)(i)

** include additional rows if needed*

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**

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.

sch ref

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	Cost of executing an interest rate swap	Debt issue cost readjustment
** include additional rows if needed*						–	–	–	–

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

Gross term credit spread differential		–
Total book value of interest bearing debt		
Leverage	44%	
Average opening and closing RAB values		
Attribution Rate (%)		–
Term credit spread differential allowance		–

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**

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.

sch ref

5d(i): Operating Cost Allocations

		Value allocated ($000s)			
	Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase ($000s)
Service interruptions and emergencies					
Directly attributable		972			
Not directly attributable		124		124	
Total attributable to regulated service		1,096			
Vegetation management					
Directly attributable		1,963			
Not directly attributable		200		200	
Total attributable to regulated service		2,163			
Routine and corrective maintenance and inspection					
Directly attributable		2,364			
Not directly attributable		231		231	
Total attributable to regulated service		2,595			
Asset replacement and renewal					
Directly attributable		684			
Not directly attributable		34		34	
Total attributable to regulated service		718			
System operations and network support					
Directly attributable		4,166			
Not directly attributable		75		75	
Total attributable to regulated service		4,241			
Business support					
Directly attributable		4,143			
Not directly attributable				–	
Total attributable to regulated service		4,143			
Operating costs directly attributable		14,292			
Operating costs not directly attributable	–	664	–	664	–
Operational expenditure		14,956			

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**

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.

sch ref

5d(ii): Other Cost Allocations

		($000)
	Pass through and recoverable costs	
	Pass through costs	
	Directly attributable	189
	Not directly attributable	
	Total attributable to regulated service	189
	Recoverable costs	
	Directly attributable	8,198
	Not directly attributable	
	Total attributable to regulated service	8,198

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

Change in cost allocation 1

			($000)	
			CY-1	**Current Year (CY)**
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

Change in cost allocation 2

			($000)	
			CY-1	**Current Year (CY)**
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

Change in cost allocation 3

			($000)	
			CY-1	**Current Year (CY)**
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

** 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.*
† include additional rows if needed

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**

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 ($000s) Electricity distribution services
Subtransmission lines	
Directly attributable	20,664
Not directly attributable	
Total attributable to regulated service	20,664
Subtransmission cables	
Directly attributable	8,334
Not directly attributable	
Total attributable to regulated service	8,334
Zone substations	
Directly attributable	38,554
Not directly attributable	
Total attributable to regulated service	38,554
Distribution and LV lines	
Directly attributable	48,473
Not directly attributable	
Total attributable to regulated service	48,473
Distribution and LV cables	
Directly attributable	44,289
Not directly attributable	
Total attributable to regulated service	44,289
Distribution substations and transformers	
Directly attributable	22,686
Not directly attributable	
Total attributable to regulated service	22,686
Distribution switchgear	
Directly attributable	16,492
Not directly attributable	
Total attributable to regulated service	16,492
Other network assets	
Directly attributable	7,745
Not directly attributable	
Total attributable to regulated service	7,745
Non-network assets	
Directly attributable	15,216
Not directly attributable	
Total attributable to regulated service	15,216
Regulated service asset value directly attributable	222,453
Regulated service asset value not directly attributable	–
Total closing RAB value	222,453

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

Change in asset value allocation 1

			($000) CY-1	Current Year (CY)
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–

Rationale for change

Change in asset value allocation 2

			($000) CY-1	Current Year (CY)
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–

Rationale for change

Change in asset value allocation 3

			($000) CY-1	Current Year (CY)
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 2018**

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

6a(i): Expenditure on Assets

			($000)	($000)
8		Consumer connection		245
9		System growth		237
10		Asset replacement and renewal		5,803
11		Asset relocations		71
12		Reliability, safety and environment:		
13		Quality of supply	1,762	
14		Legislative and regulatory	–	
15		Other reliability, safety and environment	1,934	
16		**Total reliability, safety and environment**		3,696
17		**Expenditure on network assets**		10,053
18		Expenditure on non-network assets		1,467
19				
20		**Expenditure on assets**		11,520
21	*plus*	Cost of financing		–
22	*less*	Value of capital contributions		99
23	*plus*	Value of vested assets		–
24				
25		**Capital expenditure**		11,421

6a(ii): Subcomponents of Expenditure on Assets (where known)

			($000)
27		Energy efficiency and demand side management, reduction of energy losses	–
28		Overhead to underground conversion	–
29		Research and development	–

6a(iii): Consumer Connection

		*Consumer types defined by EDB**	($000)	($000)
32		Residential	60	
33		Commerical 1	143	
34		Commercial 2	3	
35		Irrigation	40	
36				
37		** include additional rows if needed*		
38		**Consumer connection expenditure**		245
39				
40	*less*	Capital contributions funding consumer connection expenditure	56	
41		**Consumer connection less capital contributions**		189

6a(iv): System Growth and Asset Replacement and Renewal

			System Growth ($000)	Asset Replacement and Renewal ($000)
45		Subtransmission		3,654
46		Zone substations		1,066
47		Distribution and LV lines		820
48		Distribution and LV cables		29
49		Distribution substations and transformers	237	72
50		Distribution switchgear		163
51		Other network assets		–
52		**System growth and asset replacement and renewal expenditure**	237	5,803
53	*less*	Capital contributions funding system growth and asset replacement and renewal		
54		**System growth and asset replacement and renewal less capital contributions**	237	5,803
55				

6a(v): Asset Relocations

		*Project or programme**	($000)	($000)
58		Roading Authority Relocations	71	
59				
60				
61				
62				
63		** include additional rows if needed*		
64		All other projects or programmes - asset relocations		
65		**Asset relocations expenditure**		71
66	*less*	Capital contributions funding asset relocations	43	
67		**Asset relocations less capital contributions**		28

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**

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

6a(vi): Quality of Supply

		($000)	($000)
	*Project or programme**		
	SCADA	546	
	Network Automation	319	
	Generators	168	
	Digitial Radio Network	248	
	Other	480	
	** include additional rows if needed*		
	All other projects programmes - quality of supply		
	Quality of supply expenditure		1,762
less	Capital contributions funding quality of supply		
	Quality of supply less capital contributions		1,762

6a(vii): Legislative and Regulatory

		($000)	($000)
	*Project or programme**		
	** include additional rows if needed*		
	All other projects or programmes - legislative and regulatory		
	Legislative and regulatory expenditure		–
less	Capital contributions funding legislative and regulatory		
	Legislative and regulatory less capital contributions		–

6a(viii): Other Reliability, Safety and Environment

		($000)	($000)
	*Project or programme**		
	Earthing (NERs and Resonant)	191	
	Tee Joint Removal	133	
	SWER Reinsulation	3	
	Other	1,608	
	** include additional rows if needed*		
	All other projects or programmes - other reliability, safety and environment		
	Other reliability, safety and environment expenditure		1,934
less	Capital contributions funding other reliability, safety and environment		
	Other reliability, safety and environment less capital contributions		1,934

6a(ix): Non-Network Assets

Routine expenditure

		($000)	($000)
	*Project or programme**		
	Motor Vehicle Purchases	837	
	Computer upgrades	110	
	Software upgrades	9	
	Communications Radio and Phone	27	
	Test Instruments	12	
	Plant and Equipment	192	
	** include additional rows if needed*		
	All other projects or programmes - routine expenditure		
	Routine expenditure		1,187

Atypical expenditure

		($000)	($000)
	*Project or programme**		
	Building and Depot Alterations	184	
	IT Projects and Upgrades	96	
	** include additional rows if needed*		
	All other projects or programmes - atypical expenditure		
	Atypical expenditure		280
	Expenditure on non-network assets		1,467

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**

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	**6b(i): Operational Expenditure**		
8	Service interruptions and emergencies	1,096	
9	Vegetation management	2,163	
10	Routine and corrective maintenance and inspection	2,595	
11	Asset replacement and renewal	718	
12	**Network opex**		6,572
13	System operations and network support	4,241	
14	Business support	4,143	
15	**Non-network opex**		8,384
16			
17	**Operational expenditure**		14,956
18	**6b(ii): Subcomponents of Operational Expenditure (where known)**		
19	Energy efficiency and demand side management, reduction of energy losses		–
20	Direct billing*		–
21	Research and development		–
22	Insurance		310
23	** Direct billing expenditure by suppliers that directly bill the majority of their consumers*		

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**

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

		Target ($000) [1]	Actual ($000)	% variance
7	**7(i): Revenue**			
8	Line charge revenue	35,260	35,902	2%
		Forecast ($000) [2]	**Actual ($000)**	**% variance**
9	**7(ii): Expenditure on Assets**			
10	Consumer connection	408	245	(40%)
11	System growth	–	237	–
12	Asset replacement and renewal	6,375	5,803	(9%)
13	Asset relocations	612	71	(88%)
14	Reliability, safety and environment:			
15	Quality of supply	2,193	1,762	(20%)
16	Legislative and regulatory	51	–	(100%)
17	Other reliability, safety and environment	765	1,934	153%
18	**Total reliability, safety and environment**	3,009	3,696	23%
19	**Expenditure on network assets**	10,404	10,053	(3%)
20	Expenditure on non-network assets	1,250	1,467	17%
21	Expenditure on assets	11,654	11,520	(1%)
22	**7(iii): Operational Expenditure**			
23	Service interruptions and emergencies	816	1,096	34%
24	Vegetation management	1,836	2,163	18%
25	Routine and corrective maintenance and inspection	2,448	2,595	6%
26	Asset replacement and renewal	612	718	17%
27	**Network opex**	5,712	6,572	15%
28	System operations and network support	3,060	4,241	39%
29	Business support	3,876	4,143	7%
30	**Non-network opex**	6,936	8,384	21%
31	**Operational expenditure**	12,648	14,956	18%
32	**7(iv): Subcomponents of Expenditure on Assets (where known)**			
33	Energy efficiency and demand side management, reduction of energy losses	–	–	–
34	Overhead to underground conversion	–	–	–
35	Research and development	–	–	–
36				
37	**7(v): Subcomponents of Operational Expenditure (where known)**			
38	Energy efficiency and demand side management, reduction of energy losses	–	–	–
39	Direct billing	–	–	–
40	Research and development	–	–	–
41	Insurance	250	310	24%
42				

43 *1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination*

44 *2 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 2018**
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.

sch ref

8(i): Billed Quantities 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)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)
15		Residential	Standard	21,568	145,736
16		Commercial	Standard	3,240	76,514
17		Large Commercial	Standard	118	140,175
18		Irrigation	Standard	342	13,322
19		Streetlighting	Standard	106	2,943
20					
21					
22					
23					
24					
25	*Add extra rows for additional consumer groups or price category codes as necessary*				
26			**Standard consumer totals**	25,374	378,692
27			**Non-standard consumer totals**	–	–
28			**Total for all consumers**	25,374	378,692

Billed quantities by price component

	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	98 ML Consumption
13	**Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)**	c/kWh	c/kWh	c/kWh	c/kWh	c/kWh	c/kWh	c/kWh	c/kWh	c/kWh	c/kWh	c/kWh
15		106,033	36,829	2,874	–	–	–	–	–	–	–	–
16		73,338	1,936	342	–	56	–	–	–	–	–	843
17		–	–	–	–	–	101,259	38,916	–	–	–	–
18		–	–	–	–	–	–	–	12,765	558	–	–
19		–	–	–	–	–	–	–	–	–	2,943	–
20		–	–	–	–	–	–	–	–	–	–	–
21		–	–	–	–	–	–	–	–	–	–	–
22		–	–	–	–	–	–	–	–	–	–	–
23		–	–	–	–	–	–	–	–	–	–	–
24		–	–	–	–	–	–	–	–	–	–	–
26		179,371	38,765	3,216	–	56	101,259	38,916	12,765	558	2,943	843
27		–	–	–	–	–	–	–	–	–	–	–
28		179,371	38,765	3,216	–	56	101,259	38,916	12,765	558	2,943	843

Add extra columns for additional billed quantities by price component as necessary

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**
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

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)	Line charge revenues ($000) by 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	AL,AM,AH Capacity	WL,WM,WH RPD
Price component																			
Rate (eg, $ per day, $ per kWh, etc.)							c/kWh	c/kWh	c/kWh	kWh	c/kWh	c/kWh	c/kWh	c/kWh	C/kWh	c/kWh	$ per day	$/kVa	$/kVa
	Residential	Standard	$16,130	$3,517	$16,130		$8,336	$1,890	$83	–	–	–	–	–	–	–	$5,819	–	–
	Commercial	Standard	$8,546	$1,937	$8,546		$4,398	$78	$6	–	$3	–	–	–	–	–	$4,061	–	–
	Large Commercial	Standard	$9,689	$2,521	$9,689		–	–	–	–	–	$1,947	$145	–	–	–	$362	$5,268	$1,967
	Irrigation	Standard	$1,224	$286	$1,224		–	–	–	–	–	–	–	$274	$101	–	$848	–	–
	Streetlighting	Standard	$241	$47	$241		–	–	–	–	–	–	–	–	–	$19	$222	–	–
	Generation	Standard	$4	–	$4		–	–	–	$4	–	–	–	–	–	–	–	–	–
	Generation	Non-standard	$69	–	$69		–	–	–	–	–	–	–	–	–	–	$69	–	–
			–				–	–	–	–	–	–	–	–	–	–	–	–	–
			–				–	–	–	–	–	–	–	–	–	–	–	–	–
			–				–	–	–	–	–	–	–	–	–	–	–	–	–

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

Add extra columns for additional line charge revenues by price component as necessary

	Standard consumer totals	$35,833	$8,308	$35,833	–	$12,734	$1,969	$89	$4	$3	$1,947	$145	$274	$101	$19	$11,312	$5,268	$1,967
	Non-standard consumer totals	$69	–	$69	–	–	–	–	–	–	–	–	–	–	–	$69	–	–
	Total for all consumers	$35,902	$8,308	$35,902	–	$12,734	$1,969	$89	$4	$3	$1,947	$145	$274	$101	$19	$11,381	$5,268	$1,967

Check OK

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end	–

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**
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

8	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1–4)
9	All	Overhead Line	Concrete poles / steel structure	No.	17,806	17,891	85	3
10	All	Overhead Line	Wood poles	No.	10,652	10,611	(41)	3
11	All	Overhead Line	Other pole types	No.	2,068	2,100	32	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	278	280	1	3
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	22	22	0	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	0	–	(0)	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.	84	79	(5)	3
29	HV	Zone substation switchgear	33kV RMU	No.	1	1	–	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	62	63	1	3
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	28	27	(1)	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	98	105	7	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	11	12	1	3
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	31	31	–	3
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1,600	1,595	(4)	3
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	2	2	–	4
37	HV	Distribution Line	SWER conductor	km	541	541	(0)	3
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	169	176	7	3
39	HV	Distribution Cable	Distribution UG PILC	km	15	11	(4)	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.	102	103	1	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	29	21	(8)	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	2,358	2,467	109	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	67	65	(2)	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	623	659	36	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	3,461	3,585	124	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	458	479	21	3
48	HV	Distribution Transformer	Voltage regulators	No.	28	30	2	3
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	–	–	–	N/A
50	LV	LV Line	LV OH Conductor	km	423	419	(4)	3
51	LV	LV Cable	LV UG Cable	km	341	340	(1)	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	71	85	15	3
53	LV	Connections	OH/UG consumer service connections	No.	25,260	25,465	205	3
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	132	128	(4)	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 2018**
Network / Sub-network Name	

SCHEDULE 9b: ASSET AGE PROFILE

This schedule requires a summary of the age profile (based on year of installation) of the 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																																	
8		**Disclosure Year (year ended)**	31 March 2018		**Number of assets at disclosure year end by installation date**																														
9	**Voltage**	**Asset category**	**Asset class**	**Units**	**pre-1940**	**1940 –1949**	**1950 –1959**	**1960 –1969**	**1970 –1979**	**1980 –1989**	**1990 –1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**No. with age unknown**	**end of year (quantity)**	**No. with default dates**	**Data accuracy (1–4)**
10	All	Overhead Line	Concrete poles / steel structure	No.	1,618	532	2,477	2,781	2,655	1,741	307	50	116	135	186	179	173	306	529	560	445	512	334	482	338	274	327	250	233	143	208	17,891		3
11	All	Overhead Line	Wood poles	No.	44	45	161	1,994	4,027	1,552	1,103	52	105	154	176	75	115	87	24	121	30	127	34	87	36	44	126	26	30	25	211	10,611		3
12	All	Overhead Line	Other pole types	No.	131	146	412	638	376	72	11	–	1	3	4	1	–	–	–	2	3	3	4	6	3	1	3	3	3	2	272	2,100		3
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	22	0	3	62	60	47	3	–	0	4	–	–	0	–	0	3	7	15	1	15	6	8	6	5	4	6	2	280		3
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	–	–	–	–	0	1	0	–	–	2	–	0	–	0	1	5	4	0	2	0	1	1	2	0	1	0	–	22		3
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	–	–	–	1	2	2	1	–	–	–	–	–	–	1	4	–	–	1	3	–	–	1	–	–	–	–	16		4
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0	–	–	–	–	–	–	–	–	–	–	–		N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	–	–	–	–	3	8	17	1	2	–	7	1	–	4	–	–	6	5	1	3	3	1	3	–	9	5	–	79		3
30	HV	Zone substation switchgear	33kV RMU	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	1		4
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	5	5	8	–	20	1	–	7	3	14	–	–	–	63		3
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	–	–	–	–	–	1	3	–	–	–	3	–		3	–	1	3	8	–	2	–	2	–	–	–	1	–	27		3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	–	–	–	–	–	–	24	–	–	–	6	–	–	–	22	7	18	–	9	2	6	11	–	–	–	–	–	105		3
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	1	1	–	–	–	5	4	–	–	–	–	–	1	–	–	–	12		3
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.	–	–	–	–	1	1	2	–	–	–	1	–	–	1	4	3	3	2	2	1	2	2	1	1	2	2	–	31		3
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	22	42	133	316	328	195	114	9	14	25	11	26	31	27	45	50	25	27	19	28	25	14	20	17	17	9	7	1,595		3
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2	–	–	–	–	2		4
38	HV	Distribution Line	SWER conductor	km	–	–	17	86	258	119	37	1	0	0	0	2	4	2	0	0	1	8	0	0	–	–	3		–	1	0	541		3
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	–	–	–	–	7	8	14	3	6	9	5	8	6	18	10	10	11	4	15	6	8	9	6	4	3	5	0	176		3
40	HV	Distribution Cable	Distribution UG PILC	km	–	–	–	–	8	2	0	–	–	0	–	–	–	1	0	–	–	–	–	0	–	–	–	–	–	–	–	11		3
41	HV	Distribution Cable	Distribution Submarine Cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	–	–	–	–	–	4	15	1	–	–	5	–	1	3	–	4	4	1	9	12	6	9	13	7	5	4	–	103		3
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	–	–	–	–	3	8	–	–	–	–	–	–	–	–	–	–	–	–	–	2	–	4	–	4	–	–	21		3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	–	–	–	6	63	140	463	19	27	23	60	29	61	208	145	132	133	126	132	119	103	115	102	75	82	62	42	2,467		3
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	–	–	–	1	2	1	19	–	7	–	4	–	2	12	–	4	4	2	–	–	–	1	3	2	–	–	1	65		3
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	–	–	–	4	16	23	44	3	17	18	3	7	5	46	31	36	32	27	60	37	54	40	39	36	42	38	1	659		3
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	–	–	19	158	358	645	610	67	55	104	121	115	104	107	126	119	114	86	75	94	54	71	91	72	97	85	38	3,585		3
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	–	–	–	3	16	29	65	6	9	21	20	31	16	27	28	33	28	22	25	10	13	16	13	10	22	11	5	479		3
49	HV	Distribution Transformer	Voltage regulators	No.	–	–	–	1	–	–	–	1	–	–	3	7	–	6	–	3	2	2	–	–	1	2	–	1	–	1	–	30		3
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
51	LV	LV Line	LV OH Conductor	km	12	3	9	37	38	25	5	0	0	0	0	0	0	1	1	1	1	1	1	2	1	0	2	1	1	1	273	419		2
52	LV	LV Cable	LV UG Cable	km	–	–	–	–	47	32	40	9	9	11	10	17	13	31	13	21	13	8	12	5	6	5	7	9	9	10	1	340		3
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	1	0	0	2	8	5	11	2	2	3	5	1	1	4	3	4	2	1	3	1	3	1	2	2	2	4	14	85		3
54	LV	Connections	OH/UG consumer service connections	No.	3,452	747	2,146	2,453	4,161	3,052	1,947	1,299	327	361	458	531	484	538	516	553	402	341	244	128	215	186	216	245	258	205	–	25,465		3
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	–	–	–	–	–	–	–	–	–	3	10	7	–	4	7	25	1	16	11	8	8	7	3	14	–	4	–	128		3
56	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1		4
57	All	Capacitor Banks	Capacitors including controls	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
58	All	Load Control	Centralised plant	Lot	–	–	–	–	–	–	–	–	–	–	1	–	–	–	1	–	–	–	1	–	–	–	–	–	–	–	–	3		3
59	All	Load Control	Relays	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A
60	All	Civils	Cable Tunnels	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		N/A

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**
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	**Circuit length by operating voltage (at year end)**	**Overhead (km)**	**Underground (km)**	**Total circuit length (km)**
11	> 66kV	–	–	–
12	50kV & 66kV	–	–	–
13	33kV	280	22	302
14	SWER (all SWER voltages)	541	–	541
15	22kV (other than SWER)	–	–	–
16	6.6kV to 11kV (inclusive—other than SWER)	1,597	187	1,784
17	Low voltage (< 1kV)	419	340	759
18	**Total circuit length (for supply)**	2,836	549	3,386
19				
20	Dedicated street lighting circuit length (km)	21	64	85
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			Not Available
22				
23	**Overhead circuit length by terrain (at year end)**	**Circuit length (km)**	**(% of total overhead length)**	
24	Urban	322	11%	
25	Rural	863	30%	
26	Remote only	–	–	
27	Rugged only	796	28%	
28	Remote and rugged	849	30%	
29	Unallocated overhead lines	6	0%	
30	**Total overhead length**	2,836	100%	
31				
32		**Circuit length (km)**	**(% of total circuit length)**	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	1,862	55%	
34		**Circuit length (km)**	**(% of total overhead length)**	
35	Overhead circuit requiring vegetation management	2,836	100%	

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**

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			

** 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 2018**
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

9e(i): Consumer Connections

Number of ICPs connected in year by consumer type

*Consumer types defined by EDB**	Number of connections (ICPs)
Residential	181
Commercial	40
Large Commercial	2
Irrigation	7
Streetlighting	–

** include additional rows if needed*

Connections total	230

Distributed generation

Number of connections made in year	100	connections
Capacity of distributed generation installed in year	1.38	MVA

9e(ii): System Demand

		Demand at time of maximum coincident demand (MW)	
Maximum coincident system demand			
	GXP demand	71	
plus	Distributed generation output at HV and above	2	
	Maximum coincident system demand	73	
less	Net transfers to (from) other EDBs at HV and above	–	
	Demand on system for supply to consumers' connection points	73	

		Energy (GWh)	
Electricity volumes carried			
	Electricity supplied from GXPs	385	
less	Electricity exports to GXPs	–	
plus	Electricity supplied from distributed generation	14	
less	Net electricity supplied to (from) other EDBs	1	
	Electricity entering system for supply to consumers' connection points	398	
less	Total energy delivered to ICPs	379	
	Electricity losses (loss ratio)	20	4.9%
	Load factor	0.62	

9e(iii): Transformer Capacity

	(MVA)
Distribution transformer capacity (EDB owned)	323
Distribution transformer capacity (Non-EDB owned, estimated)	19
Total distribution transformer capacity	342
Zone substation transformer capacity	316

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**
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

10(i): Interruptions

Interruptions by class

		Number of interruptions
10	Class A (planned interruptions by Transpower)	–
11	Class B (planned interruptions on the network)	283
12	Class C (unplanned interruptions on the network)	365
13	Class D (unplanned interruptions by Transpower)	1
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	**Total**	649

Interruption restoration

		≤3Hrs	>3hrs
22	Class C interruptions restored within	256	109

SAIFI and SAIDI by class

		SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)	–	–
26	Class B (planned interruptions on the network)	0.36	60.7
27	Class C (unplanned interruptions on the network)	0.72	60.3
28	Class D (unplanned interruptions by Transpower)	1.00	107.0
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	**Total**	2.09	228.0

Normalised SAIFI and SAIDI

		Normalised SAIFI	Normalised SAIDI
37	Classes B & C (interruptions on the network)	1.09	121.0

Quality path normalised reliability limit

		SAIFI reliability limit	SAIDI reliability limit
40	SAIFI and SAIDI limits applicable to disclosure year*	N/A	N/A

** not applicable to exempt EDBs*

Company Name	**Marlborough Lines Limited**
For Year Ended	**31 March 2018**
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	0.02	3.1
Vegetation	0.02	2.8
Adverse weather	0.15	15.5
Adverse environment	–	–
Third party interference	0.07	5.4
Wildlife	0.07	5.5
Human error	0.02	0.9
Defective equipment	0.16	20.1
Cause unknown	0.22	7.1

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	–	–
Subtransmission cables	–	–
Subtransmission other	0.00	1.3
Distribution lines (excluding LV)	0.02	3.2
Distribution cables (excluding LV)	–	–
Distribution other (excluding LV)	0.34	56.2

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.04	0.6
Subtransmission cables	–	–
Subtransmission other	0.02	1.1
Distribution lines (excluding LV)	0.27	44.6
Distribution cables (excluding LV)	0.04	1.8
Distribution other (excluding LV)	0.36	12.2

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	3	280	1.07
Subtransmission cables	–	22	–
Subtransmission other	6		
Distribution lines (excluding LV)	280	2,138	13.10
Distribution cables (excluding LV)	7	187	3.75
Distribution other (excluding LV)	69		
Total	365		

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

Company Name	Marlborough Lines Limited
Disclosure Date	
AMP Planning Period Start Date (first day)	1 April 2018

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

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Information disclosure asset management plan schedules

Disclosure Template Instructions

These templates have been prepared for use by EDBs when making disclosures under subclauses 2.6.1(1)(d), 2.6.1(1)(e), 2.6.1(2), 2.6.5(6), 2.6.6(1) and 2.6.6(2) of the Electricity Distribution Information Disclosure Determination 2012. The EDB may include a completed Schedule 13: Report on Asset Management Maturity table with its disclosures made under subclause 2.6.6(1) and 2.6.6(2), but this is not required. Schedule 13 tables that are not completed should be removed from disclosures made under subclause 2.6.6(1)

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 first day of the 10 year planning period 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 (planning period start date) is used to calculate disclosure years in the column headings that show above some of the tables. It is also used to calculate the AMP planning period dates 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 guard against errors in data entry, some data entry cells test entries for validity and accept only a limited range of values. For example, entries may be limited to a list of category names or to values between 0% and 100%. Where this occurs, a validation message will appear when data is being entered.

Conditional Formatting Settings on Data Entry Cells

Schedule 12a columns G to K contains conditional formatting. The cells will change colour if the row totals do not add to 100%.

Inserting Additional Rows

The templates for schedules 11a, 12b and 12c may require additional rows to be inserted in tables marked 'include additional rows if needed'.
Additional rows 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.
For schedule 12b the formula for column J (Utilisation of Installed Firm Capacity %) will need to be copied into the inserted row(s).
Column A schedule references should not be entered in additional rows.

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.

Company Name	**Marlborough Lines Limited**
AMP Planning Period	**1 April 2018 – 31 March 2028**

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*
8		for year ended	**31 Mar 18**	**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**
9	**11a(i): Expenditure on Assets Forecast**		**$000 (in nominal dollars)**										
10		Consumer connection	230	204	208	212	216	220	225	229	234	239	243
11		System growth	233	204	208	212	216	220	225	229	234	239	243
12		Asset replacement and renewal	5,058	5,358	6,623	9,004	8,151	7,818	8,053	5,864	5,805	7,568	9,849
13		Asset relocations	76	255	-	-	-	-	337	115	-	-	-
14		Reliability, safety and environment:											
15		Quality of supply	2,084	510	1,967	838	1,502	1,697	1,563	3,945	4,422	1,957	475
16		Legislative and regulatory	-	-	-	-	-	-	-	-	-	-	-
17		Other reliability, safety and environment	1,709	3,929	1,249	318	1,135	772	506	917	526	955	304
18		**Total reliability, safety and environment**	3,793	4,439	3,216	1,156	2,637	2,469	2,069	4,862	4,948	2,911	779
19		**Expenditure on network assets**	9,390	10,461	10,255	10,584	11,220	10,728	10,909	11,299	11,221	10,957	11,115
20		Expenditure on non-network assets	1,548	1,490	1,717	1,749	1,459	1,874	1,686	1,720	1,755	1,790	1,825
21		**Expenditure on assets**	10,938	11,951	11,973	12,334	12,679	12,602	12,596	13,020	12,976	12,746	12,940
22													
23	*plus*	Cost of financing											
24	*less*	Value of capital contributions	56										
25	*plus*	Value of vested assets											
26													
27		**Capital expenditure forecast**	10,882	11,951	11,973	12,334	12,679	12,602	12,596	13,020	12,976	12,746	12,940
28													
29		Assets commissioned	9,390	13,443	11,973	12,334	12,679	12,602	12,596	13,020	12,976	12,746	12,940

			Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*	*CY+6*	*CY+7*	*CY+8*	*CY+9*	*CY+10*
31		for year ended	**31 Mar 18**	**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**
32			**$000 (in constant prices)**										
33		Consumer connection	230	200	200	200	200	200	200	200	200	200	200
34		System growth	233	200	200	200	200	200	200	200	200	200	200
35		Asset replacement and renewal	5,058	5,250	6,363	8,493	7,543	7,093	7,163	5,113	4,963	6,343	8,093
36		Asset relocations	76	250	-	-	-	-	300	100	-	-	-
37		Reliability, safety and environment:											
38		Quality of supply	2,084	500	1,890	790	1,390	1,540	1,390	3,440	3,780	1,640	390
39		Legislative and regulatory	-	-	-	-	-	-	-	-	-	-	-
40		Other reliability, safety and environment	1,709	3,850	1,200	300	1,050	700	450	800	450	800	250
41		**Total reliability, safety and environment**	3,793	4,350	3,090	1,090	2,440	2,240	1,840	4,240	4,230	2,440	640
42		**Expenditure on network assets**	9,390	10,250	9,853	9,983	10,383	9,733	9,703	9,853	9,593	9,183	9,133
43		Expenditure on non-network assets	1,548	1,460	1,650	1,650	1,350	1,700	1,500	1,500	1,500	1,500	1,500
44		**Expenditure on assets**	10,938	11,710	11,503	11,633	11,733	11,433	11,203	11,353	11,093	10,683	10,633
45													
46	**Subcomponents of expenditure on assets (where known)**												
47		Energy efficiency and demand side management, reduction of energy losses											
48		Overhead to underground conversion											
49		Research and development											

Company Name **Marlborough Lines Limited**
AMP Planning Period **1 April 2018 – 31 March 2028**

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
52		for year ended	31 Mar 18	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
53	**Difference between nominal and constant price forecasts**		**$000**										
54	Consumer connection		-	4	8	12	16	20	25	29	34	39	43
55	System growth		-	4	8	12	16	20	25	29	34	39	43
56	Asset replacement and renewal		-	108	260	511	608	725	890	751	842	1,225	1,756
57	Asset relocations		-	5	-	-	-	-	37	15	-	-	-
58	Reliability, safety and environment:												
59	Quality of supply		-	10	77	48	112	157	173	505	642	317	85
60	Legislative and regulatory		-	-	-	-	-	-	-	-	-	-	-
61	Other reliability, safety and environment		-	79	49	18	85	72	56	117	76	155	54
62	**Total reliability, safety and environment**		-	89	126	66	197	229	229	622	718	471	139
63	**Expenditure on network assets**		-	211	402	601	837	995	1,206	1,446	1,628	1,774	1,982
64	Expenditure on non-network assets		-	30	67	99	109	174	186	220	255	290	325
65	**Expenditure on assets**		-	241	470	701	946	1,169	1,393	1,667	1,883	2,063	2,307
66													

		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
	for year ended	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23
68	**11a(ii): Consumer Connection**						
69	*Consumer types defined by EDB**	**$000 (in constant prices)**					
70	Residential and commercial	230	200	200	200	200	200
71							
72							
73							
74							
75	*include additional rows if needed						
76	**Consumer connection expenditure**	230	200	200	200	200	200
77	*less* Capital contributions funding consumer connection	56					
78	**Consumer connection less capital contributions**	174	200	200	200	200	200
79	**11a(iii): System Growth**						
80	Subtransmission						
81	Zone substations						
82	Distribution and LV lines						
83	Distribution and LV cables						
84	Distribution substations and transformers	233	200	200	200	200	200
85	Distribution switchgear						
86	Other network assets						
87	**System growth expenditure**	233	200	200	200	200	200
88	*less* Capital contributions funding system growth						
89	**System growth less capital contributions**	233	200	200	200	200	200
90							

Company Name **Marlborough Lines Limited**
AMP Planning Period **1 April 2018 – 31 March 2028**

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 18**	**31 Mar 19**	**31 Mar 20**	**31 Mar 21**	**31 Mar 22**	**31 Mar 23**
	11a(iv): Asset Replacement and Renewal	**$000 (in constant prices)**					
	Subtransmission	3,132	1,350	1,100	1,700	500	1,150
	Zone substations	1,000	950	350	500	1,000	100
	Distribution and LV lines	690	2,000	3,783	5,863	5,563	5,313
	Distribution and LV cables	26	-				-
	Distribution substations and transformers	73	400	700	350	400	450
	Other network assets	136	550	430	80	80	80
	Asset replacement and renewal expenditure	5,058	5,250	6,363	8,493	7,543	7,093
less	Capital contributions funding asset replacement and renewal						
	Asset replacement and renewal less capital contributions	5,058	5,250	6,363	8,493	7,543	7,093

		Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*
	for year ended	**31 Mar 18**	**31 Mar 19**	**31 Mar 20**	**31 Mar 21**	**31 Mar 22**	**31 Mar 23**
	11a(v): Asset Relocations						
	*Project or programme**	**$000 (in constant prices)**					
	Roading Authority Relocations	76	250	-	-	-	-
	**include additional rows if needed*						
	All other project or programmes - asset relocations						
	Asset relocations expenditure	76	250	-	-	-	-
less	Capital contributions funding asset relocations						
	Asset relocations less capital contributions	76	250	-	-	-	-

		Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*
	for year ended	**31 Mar 18**	**31 Mar 19**	**31 Mar 20**	**31 Mar 21**	**31 Mar 22**	**31 Mar 23**
	11a(vi): Quality of Supply						
	*Project or programme**	**$000 (in constant prices)**					
	SCADA	594	-	-	-	-	-
	Network Automation	389	100	140	140	140	340
	Generators	176	-	-	-	-	-
	Digitial Radio Network	290	-	-	250	250	-
	**include additional rows if needed*						
	All other projects or programmes - quality of supply	634	400	1,750	400	1,000	1,200
	Quality of supply expenditure	2,084	500	1,890	790	1,390	1,540
less	Capital contributions funding quality of supply						
	Quality of supply less capital contributions	2,084	500	1,890	790	1,390	1,540

Company Name	**Marlborough Lines Limited**
AMP Planning Period	**1 April 2018 – 31 March 2028**

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

11a(vii): Legislative and Regulatory

		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
	for year ended	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23
	*Project or programme**	$000 (in constant prices)					
	*include additional rows if needed						
	All other projects or programmes - legislative and regulatory						
	Legislative and regulatory expenditure	-	-	-	-	-	-
less	Capital contributions funding legislative and regulatory						
	Legislative and regulatory less capital contributions	-	-	-	-	-	-

11a(viii): Other Reliability, Safety and Environment

		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
	for year ended	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23
	*Project or programme**	$000 (in constant prices)					
	Earthing (NERs and Resonant)	30	200	400	-	350	200
	Tee Joint Removal	142	100	100	100	100	100
	SWER Reinsulation	3	50	50	50	50	50
	*include additional rows if needed						
	All other projects or programmes - other reliability, safety and environment	1,533	3,500	650	150	550	350
	Other reliability, safety and environment expenditure	1,709	3,850	1,200	300	1,050	700
less	Capital contributions funding other reliability, safety and environment						
	Other reliability, safety and environment less capital contributions	1,709	3,850	1,200	300	1,050	700

11a(ix): Non-Network Assets

		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
	for year ended	31 Mar 18	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23
	Routine expenditure						
	*Project or programme**	$000 (in constant prices)					
	Test Equipment	13	25	25	25	25	25
	Plant and Tools	383	400	400	400	400	400
	Vehicles	708	500	500	500	500	500
	Land, Buildings and office equipment	98	125	125	125	125	125
	IT Computers	224	300	300	650	300	650
	*include additional rows if needed						
	All other projects or programmes - routine expenditure	8					
	Routine expenditure	1,434	1,350	1,650	1,650	1,350	1,700
	Atypical expenditure						
	*Project or programme**						
	New truck shed, Taylor Pass	114	110	-	-	-	-
	*include additional rows if needed						
	All other projects or programmes - atypical expenditure						
	Atypical expenditure	114	110	-	-	-	-
	Expenditure on non-network assets	1,548	1,460	1,650	1,650	1,350	1,700

Company Name	**Marlborough Lines Limited**
AMP Planning Period	**1 April 2018 – 31 March 2028**

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
8	for year ended	31 Mar 18	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
9	**Operational Expenditure Forecast**	**$000 (in nominal dollars)**										
10	Service interruptions and emergencies	1,057	918	937	954	973	992	1,012	1,032	1,053	1,074	1,095
11	Vegetation management	2,120	1,990	1,978	1,961	1,945	1,984	1,968	1,950	1,989	1,969	2,008
12	Routine and corrective maintenance and inspection	2,473	2,653	2,706	2,757	2,810	2,866	2,923	2,982	3,041	3,102	3,164
13	Asset replacement and renewal	785	714	729	742	756	772	787	803	819	835	852
14	**Network Opex**	6,435	6,276	6,349	6,414	6,484	6,614	6,690	6,766	6,901	6,980	7,119
15	System operations and network support	4,108	4,082	4,163	4,241	4,323	4,409	4,497	4,587	4,679	4,773	4,868
16	Business support	4,114	4,082	4,163	4,241	4,323	4,409	4,497	4,587	4,679	4,773	4,868
17	**Non-network opex**	8,222	8,164	8,327	8,482	8,645	8,818	8,995	9,174	9,358	9,545	9,736
18	**Operational expenditure**	14,657	14,441	14,676	14,896	15,129	15,432	15,684	15,941	16,259	16,525	16,855

		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
20	for year ended	31 Mar 18	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
21		**$000 (in constant prices)**										
22	Service interruptions and emergencies	1,057	900	900	900	900	900	900	900	900	900	900
23	Vegetation management	2,120	1,950	1,900	1,850	1,800	1,800	1,750	1,700	1,700	1,650	1,650
24	Routine and corrective maintenance and inspection	2,473	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600
25	Asset replacement and renewal	785	700	700	700	700	700	700	700	700	700	700
26	**Network Opex**	6,435	6,150	6,100	6,050	6,000	6,000	5,950	5,900	5,900	5,850	5,850
27	System operations and network support	4,108	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
28	Business support	4,114	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
29	**Non-network opex**	8,222	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
30	**Operational expenditure**	14,657	14,150	14,100	14,050	14,000	14,000	13,950	13,900	13,900	13,850	13,850
31	**Subcomponents of operational expenditure (where known)**											
32	Energy efficiency and demand side management, reduction of											
33	energy losses	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
34	Direct billing*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
35	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
36	Insurance	310	325	315	300	300	300	300	300	300	300	300
37	** Direct billing expenditure by suppliers that direct bill the majority of their consumers*											
38												

		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
40	for year ended	31 Mar 18	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
41	**Difference between nominal and real forecasts**	**$000**										
42	Service interruptions and emergencies	-	18	37	54	73	92	112	132	153	174	195
43	Vegetation management	-	40	78	111	145	184	218	250	289	319	358
44	Routine and corrective maintenance and inspection	-	53	106	157	210	266	323	382	441	502	564
45	Asset replacement and renewal	-	14	29	42	56	72	87	103	119	135	152
46	**Network Opex**	-	126	249	364	484	614	740	866	1,001	1,130	1,269
47	System operations and network support	-	82	163	241	323	409	497	587	679	773	868
48	Business support	-	-	-	-	-	-	-	-	-	-	-
49	**Non-network opex**	-	164	327	482	645	818	995	1,174	1,358	1,545	1,736
50	**Operational expenditure**	-	291	576	846	1,129	1,432	1,734	2,041	2,359	2,675	3,005

Company Name	**Marlborough Lines Limited**
AMP Planning Period	**1 April 2018 – 31 March 2028**

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**
10	All	Overhead Line	Concrete poles / steel structure	No.	-	8%	20%	36%	37%	-	3	3%
11	All	Overhead Line	Wood poles	No.	2%	54%	30%	9%	4%	-	3	2%
12	All	Overhead Line	Other pole types	No.	7%	7%	44%	38%	4%	-	3	10%
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	-	10%	26%	37%	27%	-	3	4%
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%	-	6%	94%	-	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	-	1%	-	99%	-	-	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.	-	-	4%	38%	58%	-	4	-
27	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	-	-	8%	42%	50%	-	3	-
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	-	-	-	-	-	N/A	N/A
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	2%	13%	24%	26%	34%	-	3	1%
30	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	-	100%	-	4	N/A
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.	-	9%	17%	29%	44%	-	3	-
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	-	-	20%	80%	-	3	1%

Company Name	**Marlborough Lines Limited**
AMP Planning Period	**1 April 2018 – 31 March 2028**

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**
39	HV	Zone Substation Transformer	Zone Substation Transformers	No.	-	3%	10%	32%	55%	-	4	10%
40	HV	Distribution Line	Distribution OH Open Wire Conductor	km	8%	13%	23%	30%	26%	-	3	5%
41	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	-	100%	-	4	-
42	HV	Distribution Line	SWER conductor	km	0%	8%	13%	75%	5%	-	3	-
43	HV	Distribution Cable	Distribution UG XLPE or PVC	km	1%	2%	-	12%	85%	-	3	-
44	HV	Distribution Cable	Distribution UG PILC	km	-	-	-	86%	14%	-	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.	-	4%	14%	14%	68%	-	3	3%
47	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	-	9%	17%	29%	44%	-	3	2%
48	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	3%	6%	19%	34%	38%	-	3	2%
49	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	5%	0%	30%	46%	19%	-	3	3%
50	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	-	2%	26%	39%	33%	-	3	2%
51	HV	Distribution Transformer	Pole Mounted Transformer	No.	-	9%	41%	27%	23%	-	3	3%
52	HV	Distribution Transformer	Ground Mounted Transformer	No.	-	2%	20%	42%	37%	-	3	-
53	HV	Distribution Transformer	Voltage regulators	No.	-	4%	-	68%	29%	-	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	41%	35%	5%	15%	5%	-	2	2%
56	LV	LV Cable	LV UG Cable	km	-	0%	6%	43%	50%	-	3	-
57	LV	LV Streetlighting	LV OH/UG Streetlight circuit	km	36.29%	30.98%	4.75%	18.20%	9.79%	-	2	1%
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.	-	-	65.00%	35.00%	-		4	-
60	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	-	-	-	100.00%	-	-	3	-
61	All	Capacitor Banks	Capacitors including controls	No.	-	100.00%	-	-	-	-	2	-
62	All	Load Control	Centralised plant	Lot	-	-	-	33.00%	67.00%	-	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

Company Name	**Marlborough Lines Limited**
AMP Planning Period	**1 April 2018 – 31 March 2028**

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

Existing Zone Substations	Current Peak Load (MVA)	Installed Firm Capacity (MVA)	Security of Supply Classification (type)	Transfer Capacity (MVA)	Utilisation of Installed Firm Capacity %	Installed Firm Capacity +5 years (MVA)	Utilisation of Installed Firm Capacity + 5yrs %	Installed Firm Capacity Constraint +5 years (cause)	Explanation
Cloudy Bay	6	17	N-1	8	38%	17	53%	No constraint within +5 years	Planned load shift from Riverlands
Havelock	3	5	N-1	2	50%	5	49%	No constraint within +5 years	
Linkwater	4	5	N	1	72%	5	68%	No constraint within +5 years	
Leefield	1	5	N	1	26%	5	32%	No constraint within +5 years	
Nelson St	15	17	N-1	10	88%	17	98%	Transformer	Installation of fans on Transformers to increase ratings.
Picton	7	17	N-1	-	42%	17	40%	No constraint within +5 years	
Rai Valley	2	3	N	1	66%	3	72%	No constraint within +5 years	
Redwoodtown	10	17	N-1	8	60%	17	62%	No constraint within +5 years	
Renwick	9	10	N-1	5	94%	17	60%	No constraint within +5 years	New Zone sub planned FY19
Riverlands	9	10	N-1	8	92%	10	75%	No constraint within +5 years	Planned load shift to Cloudy Bay Sub
Seddon	6	10	N-1	1	62%	10	69%	No constraint within +5 years	
Spring Creek	4	5	N-1	4	81%	5	93%	Transformer	Could transfer some load to Springlands
Springlands	10	17	N-1	10	63%	17	62%	No constraint within +5 years	
Ward	1	5	N	1	30%	5	29%	No constraint within +5 years	
Waters	7	17	N-1	10	41%	17	40%	No constraint within +5 years	
Woodbourne	9	10	N-1	5	86%	10	84%	No constraint within +5 years	

[1] *Extend forecast capacity table as necessary to disclose all capacity by each zone substation*

Company Name	**Marlborough Lines Limited**
AMP Planning Period	**1 April 2018 – 31 March 2028**

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

		Number of connections					
		Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*
	for year ended	**31 Mar 18**	**31 Mar 19**	**31 Mar 20**	**31 Mar 21**	**31 Mar 22**	**31 Mar 23**
	*Consumer types defined by EDB**						
	Residential	144	155	157	159	161	163
	Business	43	3	5	8	10	12
	Commercial	-	-	1	-	1	-
	Irrigation	9	1	2	2	3	3
	Connections total	196	159	165	169	175	178
	**include additional rows if needed*						
	Distributed generation						
	Number of connections	104	120	130	140	150	160
	Capacity of distributed generation installed in year (MVA)	2	1	1	1	2	2

12c(ii) System Demand

		Current Year CY	*CY+1*	*CY+2*	*CY+3*	*CY+4*	*CY+5*
	Maximum coincident system demand (MW) for year ended	**31 Mar 18**	**31 Mar 19**	**31 Mar 20**	**31 Mar 21**	**31 Mar 22**	**31 Mar 23**
	GXP demand	71	71	72	72	72	73
plus	Distributed generation output at HV and above	2	2	2	2	2	2
	Maximum coincident system demand	73	73	74	74	74	75
less	Net transfers to (from) other EDBs at HV and above	-	-	-	-	-	-
	Demand on system for supply to consumers' connection points	73	73	74	74	74	75
	Electricity volumes carried (GWh)						
	Electricity supplied from GXPs	379	379	379	379	379	379
less	Electricity exports to GXPs	-	-	-	-	-	-
plus	Electricity supplied from distributed generation	15	15	15	15	15	16
less	Net electricity supplied to (from) other EDBs	-	-	-	-	-	-
	Electricity entering system for supply to ICPs	394	394	394	394	394	395
less	Total energy delivered to ICPs	374	376	376	377	377	378
	Losses	20	18	18	17	17	17
	Load factor	62%	61%	61%	61%	60%	60%
	Loss ratio	5.1%	4.6%	4.6%	4.4%	4.4%	4.2%

Company Name	**Marlborough Lines Limited**
AMP Planning Period	**1 April 2018 – 31 March 2028**
Network / Sub-network Name	**N/A**

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*
8							
9	for year ended	**31 Mar 18**	**31 Mar 19**	**31 Mar 20**	**31 Mar 21**	**31 Mar 22**	**31 Mar 23**
10	**SAIDI**						
11	Class B (planned interruptions on the network)	65.0	65.0	65.0	65.0	65.0	65.0
12	Class C (unplanned interruptions on the network)	80.0	80.0	80.0	80.0	80.0	80.0
13	**SAIFI**						
14	Class B (planned interruptions on the network)	0.35	0.35	0.35	0.35	0.35	0.35
15	Class C (unplanned interruptions on the network)	0.67	0.67	0.67	0.67	0.67	0.67

Company Name	**Marlborough Lines Limited**
AMP Planning Period	**1 April 2018 – 31 March 2028**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
3	Asset management policy	To what extent has an asset management policy been documented, authorised and communicated?	2.5	MLL has no dedicated/specific asset management policy aside from Section 1.11.1 of the previous AMP (revised in the under development AMP), however, asset management through public safety, H&S, environmental, quality management (IMS) system which is fully endorsed by top management. Key people invovled in development of IMS system. Also, SCI, AMP (although this isn't dissemintated as well as it could be to staff). Ultimately, no change from last AMMAT response. MLL should consider a dedicated AM Policy outside of the AMP which is readily		Widely used AM practice standards require an organisation to document, authorise and communicate its asset management policy (eg, as required in PAS 55 para 4.2 i). A key pre-requisite of any robust policy is that the organisation's top management must be seen to endorse and fully support it. Also vital to the effective implementation of the policy, is to tell the appropriate people of its content and their obligations under it. Where an organisation outsources some of its asset-related activities, then these people and their organisations must equally be made aware of the policy's content. Also, there may be other stakeholders, such as regulatory authorities and shareholders who should be made aware of it.	Top management. The management team that has overall responsibility for asset management.	The organisation's asset management policy, its organisational strategic plan, documents indicating how the asset management policy was based upon the needs of the organisation and evidence of communication.
10	Asset management strategy	What has the organisation done to ensure that its asset management strategy is consistent with other appropriate organisational policies and strategies, and the needs of stakeholders?	2.5	The 2016 AMP contains an AM Strategy which expands on the AM Policy. This AM Strategy was deliberately written in conjunction with the AM Policy to ensure consistency. A review of this AM Strategy indicates that it is aligned to Marlborough Lines overall corporate direction. The strategy has been reviewed/updated for the 2019 AMP.	Mll has a number of strategies, policies and stakeholders. The AMP provides a summary of these.	In setting an organisation's asset management strategy, it is important that it is consistent with any other policies and strategies that the organisation has and has taken into account the requirements of relevant stakeholders. This question examines to what extent the asset management strategy is consistent with other organisational policies and strategies (eg, as required by PAS 55 para 4.3.1 b) and has taken account of stakeholder requirements as required by PAS 55 para 4.3.1 c). Generally, this will take into account the same polices, strategies and stakeholder requirements as covered in drafting the asset management policy but at a greater level of detail.	Top management. The organisation's strategic planning team. The management team that has overall responsibility for asset management.	The organisation's asset management strategy document and other related organisational policies and strategies. Other than the organisation's strategic plan, these could include those relating to health and safety, environmental, etc. Results of stakeholder consultation.
11	Asset management strategy	In what way does the organisation's asset management strategy take account of the lifecycle of the assets, asset types and asset systems over which the organisation has stewardship?	2.5	MLL's AMP covers asset classes and lifecycle maintenance approach to assets (i.e. is effectively MLL's asset strategy). The lifecycle strategies are heavily dependent on the asset class. Strategy drivers include economic, public safety, asset criticality etc.	MLL owns and operates a large volume of assets, many of which serve very different purposes. Even within the same asset classes, some assets are highly critical while others are not (e.g. 33kV poles vs low voltage poles).	Good asset stewardship is the hallmark of an organisation compliant with widely used AM standards. A key component of this is the need to take account of the lifecycle of the assets, asset types and asset systems. (For example, this requirement is recognised in 4.3.1 d) of PAS 55). This question explores what an organisation has done to take lifecycle into account in its asset management strategy.	Top management. People in the organisation with expert knowledge of the assets, asset types, asset systems and their associated life-cycles. The management team that has overall responsibility for asset management. Those responsible for developing and adopting methods and processes used in asset management	The organisation's documented asset management strategy and supporting working documents.
26	Asset management plan(s)	How does the organisation establish and document its asset management plan(s) across the life cycle activities of its assets and asset systems?	2.5	MLL has an AMP which is compiled by several key staff. The AMP firstly breaks down the network by asset class, and then secondly considers activities that are required as an assets' life progresses (principally through testing and inspections, minor mainteance and renewals). MLL acknowledges that further focus/planning could be placed around decommissioning and disposal of assets.		The asset management strategy need to be translated into practical plan(s) so that all parties know how the objectives will be achieved. The development of plan(s) will need to identify the specific tasks and activities required to optimize costs, risks and performance of the assets and/or asset system(s), when they are to be carried out and the resources required.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers.	The organisation's asset management plan(s).

Company Name	**Marlborough Lines Limited**
AMP Planning Period	**1 April 2018 – 31 March 2028**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
3	Asset management policy	To what extent has an asset management policy been documented, authorised and communicated?	The organisation does not have a documented asset management policy.	The organisation has an asset management policy, but it has not been authorised by top management, or it is not influencing the management of the assets.	The organisation has an asset management policy, which has been authorised by top management, but it has had limited circulation. It may be in use to influence development of strategy and planning but its effect is limited.	The asset management policy is authorised by top management, is widely and effectively communicated to all relevant employees and stakeholders, and used to make these persons aware of their asset related obligations.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
10	Asset management strategy	What has the organisation done to ensure that its asset management strategy is consistent with other appropriate organisational policies and strategies, and the needs of stakeholders?	The organisation has not considered the need to ensure that its asset management strategy is appropriately aligned with the organisation's other organisational policies and strategies or with stakeholder requirements. OR The organisation does not have an asset management strategy.	The need to align the asset management strategy with other organisational policies and strategies as well as stakeholder requirements is understood and work has started to identify the linkages or to incorporate them in the drafting of asset management strategy.	Some of the linkages between the long-term asset management strategy and other organisational policies, strategies and stakeholder requirements are defined but the work is fairly well advanced but still incomplete.	All linkages are in place and evidence is available to demonstrate that, where appropriate, the organisation's asset management strategy is consistent with its other organisational policies and strategies. The organisation has also identified and considered the requirements of relevant stakeholders.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
11	Asset management strategy	In what way does the organisation's asset management strategy take account of the lifecycle of the assets, asset types and asset systems over which the organisation has stewardship?	The organisation has not considered the need to ensure that its asset management strategy is produced with due regard to the lifecycle of the assets, asset types or asset systems that it manages. OR The organisation does not have an asset management strategy.	The need is understood, and the organisation is drafting its asset management strategy to address the lifecycle of its assets, asset types and asset systems.	The long-term asset management strategy takes account of the lifecycle of some, but not all, of its assets, asset types and asset systems.	The asset management strategy takes account of the lifecycle of all of its assets, asset types and asset systems.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
26	Asset management plan(s)	How does the organisation establish and document its asset management plan(s) across the life cycle activities of its assets and asset systems?	The organisation does not have an identifiable asset management plan(s) covering asset systems and critical assets.	The organisation has asset management plan(s) but they are not aligned with the asset management strategy and objectives and do not take into consideration the full asset life cycle (including asset creation, acquisition, enhancement, utilisation, maintenance decommissioning and disposal).	The organisation is in the process of putting in place comprehensive, documented asset management plan(s) that cover all life cycle activities, clearly aligned to asset management objectives and the asset management strategy.	Asset management plan(s) are established, documented, implemented and maintained for asset systems and critical assets to achieve the asset management strategy and asset management objectives across all life cycle phases.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

Company Name	**Marlborough Lines Limited**
AMP Planning Period	**1 April 2018 – 31 March 2028**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

Company Name	**Marlborough Lines Limited**
AMP Planning Period	**1 April 2018 – 31 March 2028**
Asset Management Standard Applied	

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
27	Asset management plan(s)	How has the organisation communicated its plan(s) to all relevant parties to a level of detail appropriate to the receiver's role in their delivery?	2.5	No change from 2016 AMMAT response other than MLL should consider formalising the communications through the development of a communications plan so that there is more structure around the dissemination of the AMP and records of its dissemination	MLL disseminates/communicates the plan to relevant parties but not necessarily in a formalised manner.	Plans will be ineffective unless they are communicated to all those, including contracted suppliers and those who undertake enabling function(s). The plan(s) need to be communicated in a way that is relevant to those who need to use them.	The management team with overall responsibility for the asset management system. Delivery functions and suppliers.	Distribution lists for plan(s). Documents derived from plan(s) which detail the receivers role in plan delivery. Evidence of communication.
29	Asset management plan(s)	How are designated responsibilities for delivery of asset plan actions documented?	2.5	Key staff's job descriptions reference AMP activities and objectives. The AMP itself details repsonsiiblities for senior staff in the accountibilities and responsibilities for asset management section.		The implementation of asset management plan(s) relies on (1) actions being clearly identified, (2) an owner allocated and (3) that owner having sufficient delegated responsibility and authority to carry out the work required. It also requires alignment of actions across the organisation. This question explores how well the plan(s) set out responsibility for delivery of asset plan actions.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers. If appropriate, the performance management team.	The organisation's asset management plan(s). Documentation defining roles and responsibilities of individuals and organisational departments.
31	Asset management plan(s)	What has the organisation done to ensure that appropriate arrangements are made available for the efficient and cost effective implementation of the plan(s)? (Note this is about resources and enabling support)	2.5	Expenditure set out in the AMP (both capex and opex) is relatively consistent year on year. As such, the resourcing currently in place is generally sufficient. Major unplanned events such as the November 2016 earthquake resulted in additional OPEX and a reallocation of resources to focus on that. Additional external resource was brought in to assist with that. Where there are resource constraints, external contractors have been brought in on rare occasions (Jacksons Switchging Structure project and Renwick cabling under SH6/63 are relatively recent examples) to		It is essential that the plan(s) are realistic and can be implemented, which requires appropriate resources to be available and enabling mechanisms in place. This question explores how well this is achieved. The plan(s) not only need to consider the resources directly required and timescales, but also the enabling activities, including for example, training requirements, supply chain capability and procurement timescales.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers. If appropriate, the performance management team. If appropriate, the performance management team. Where appropriate the procurement team and service providers working on the organisation's asset-related activities.	The organisation's asset management plan(s). Documented processes and procedures for the delivery of the asset management plan.
33	Contingency planning	What plan(s) and procedure(s) does the organisation have for identifying and responding to incidents and emergency situations and ensuring continuity of critical asset management activities?	2.5	No siginficant changes from 2016 AMMAT response. The MLL AMP includes a high level risk register that identifies high level exposure to 'Electricity Network Risks'. Such risks have been used to compile the MLL Emergency Preparedness Plan, an in depth procedure for network recovery and operation following/during major events. The EPP was recently revised to ensure appropriateness and current relevance.	Emergency events can cause major interuptions to MLL's Network so appropriate plans need to be in place to minimise the effect of these.	Widely used AM practice standards require that an organisation has plan(s) to identify and respond to emergency situations. Emergency plan(s) should outline the actions to be taken to respond to specified emergency situations and ensure continuity of critical asset management activities including the communication to, and involvement of, external agencies. This question assesses if, and how well, these plan(s) triggered, implemented and resolved in the event of an incident. The plan(s) should be appropriate to the level of risk as determined by the organisation's risk assessment methodology. It is also a requirement that relevant personnel are competent and trained.	The manager with responsibility for developing emergency plan(s). The organisation's risk assessment team. People with designated duties within the plan(s) and procedure(s) for dealing with incidents and emergency situations.	The organisation's plan(s) and procedure(s) for dealing with emergencies. The organisation's risk assessments and risk registers.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
27	Asset management plan(s)	How has the organisation communicated its plan(s) to all relevant parties to a level of detail appropriate to the receiver's role in their delivery?	The organisation does not have plan(s) or their distribution is limited to the authors.	The plan(s) are communicated to some of those responsible for delivery of the plan(s). OR Communicated to those responsible for delivery is either irregular or ad-hoc.	The plan(s) are communicated to most of those responsible for delivery but there are weaknesses in identifying relevant parties resulting in incomplete or inappropriate communication. The organisation recognises improvement is needed as is working towards resolution.	The plan(s) are communicated to all relevant employees, stakeholders and contracted service providers to a level of detail appropriate to their participation or business interests in the delivery of the plan(s) and there is confirmation that they are being used effectively.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
29	Asset management plan(s)	How are designated responsibilities for delivery of asset plan actions documented?	The organisation has not documented responsibilities for delivery of asset plan actions.	Asset management plan(s) inconsistently document responsibilities for delivery of plan actions and activities and/or responsibilities and authorities for implementation inadequate and/or delegation level inadequate to ensure effective delivery and/or contain misalignments with organisational accountability.	Asset management plan(s) consistently document responsibilities for the delivery of actions but responsibility/authority levels are inappropriate/ inadequate, and/or there are misalignments within the organisation.	Asset management plan(s) consistently document responsibilities for the delivery actions and there is adequate detail to enable delivery of actions. Designated responsibility and authority for achievement of asset plan actions is appropriate.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
31	Asset management plan(s)	What has the organisation done to ensure that appropriate arrangements are made available for the efficient and cost effective implementation of the plan(s)? (Note this is about resources and enabling support)	The organisation has not considered the arrangements needed for the effective implementation of plan(s).	The organisation recognises the need to ensure appropriate arrangements are in place for implementation of asset management plan(s) and is in the process of determining an appropriate approach for achieving this.	The organisation has arrangements in place for the implementation of asset management plan(s) but the arrangements are not yet adequately efficient and/or effective. The organisation is working to resolve existing weaknesses.	The organisation's arrangements fully cover all the requirements for the efficient and cost effective implementation of asset management plan(s) and realistically address the resources and timescales required, and any changes needed to functional policies, standards, processes and the asset management information system.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
33	Contingency planning	What plan(s) and procedure(s) does the organisation have for identifying and responding to incidents and emergency situations and ensuring continuity of critical asset management activities?	The organisation has not considered the need to establish plan(s) and procedure(s) to identify and respond to incidents and emergency situations.	The organisation has some ad-hoc arrangements to deal with incidents and emergency situations, but these have been developed on a reactive basis in response to specific events that have occurred in the past.	Most credible incidents and emergency situations are identified. Either appropriate plan(s) and procedure(s) are incomplete for critical activities or they are inadequate. Training/ external alignment may be incomplete.	Appropriate emergency plan(s) and procedure(s) are in place to respond to credible incidents and manage continuity of critical asset management activities consistent with policies and asset management objectives. Training and external agency alignment is in place.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
37	Structure, authority and responsibilities	What has the organisation done to appoint member(s) of its management team to be responsible for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s)?	3	No siginficant changes from 2016 AMMAT response. The AMP sets out the responsibilities and accountability of Management staff		In order to ensure that the organisation's assets and asset systems deliver the requirements of the asset management policy, strategy and objectives responsibilities need to be allocated to appropriate people who have the necessary authority to fulfil their responsibilities. (This question, relates to the organisation's assets eg, para b), s 4.4.1 of PAS 55, making it therefore distinct from the requirement contained in para a), s 4.4.1 of PAS 55).	Top management. People with management responsibility for the delivery of asset management policy, strategy, objectives and plan(s). People working on asset-related activities.	Evidence that managers with responsibility for the delivery of asset management policy, strategy, objectives and plan(s) have been appointed and have assumed their responsibilities. Evidence may include the organisation's documents relating to its asset management system, organisational charts, job descriptions of post-holders, annual targets/objectives and personal development plan(s) of post-holders as appropriate.
40	Structure, authority and responsibilities	What evidence can the organisation's top management provide to demonstrate that sufficient resources are available for asset management?	2.5	No siginficant changes from 2016 AMMAT response. Because of the relatively consistent nature of work programmes and resulting expenditure (including forecasts), resourcing is largely a contium of what has gone before. However, asset management is generally one of many focuses for a limited number of key staff. To faciliate improvements in Asset Management, MLL could consider creating a role primarily to	Resources include finance, staff, plant and materials etc.	Optimal asset management requires top management to ensure sufficient resources are available. In this context the term 'resources' includes manpower, materials, funding and service provider support.	Top management. The management team that has overall responsibility for asset management. Risk management team. The organisation's managers involved in day-to-day supervision of asset-related activities, such as frontline managers, engineers, foremen and chargehands as appropriate.	Evidence demonstrating that asset management plan(s) and/or the process(es) for asset management plan implementation consider the provision of adequate resources in both the short and long term. Resources include funding, materials, equipment, services provided by third parties and personnel (internal and service providers) with appropriate skills competencies and knowledge.
42	Structure, authority and responsibilities	To what degree does the organisation's top management communicate the importance of meeting its asset management requirements?	2.5	No siginficant changes from 2016 AMMAT response. Key AM targets and annual performance against those targets are published annually within the MLL Annual Report. The report includes several supply reliability measures that were achieved. AM requirements are also discussed during regular board		Widely used AM practice standards require an organisation to communicate the importance of meeting its asset management requirements such that personnel fully understand, take ownership of, and are fully engaged in the delivery of the asset management requirements (eg, PAS 55 s 4.4.1 g).	Top management. The management team that has overall responsibility for asset management. People involved in the delivery of the asset management requirements.	Evidence of such activities as road shows, written bulletins, workshops, team talks and management walk-abouts would assist an organisation to demonstrate it is meeting this requirement of PAS 55.
45	Outsourcing of asset management activities	Where the organisation has outsourced some of its asset management activities, how has it ensured that appropriate controls are in place to ensure the compliant delivery of its organisational strategic plan, and its asset management policy and strategy?	3	If works are outsourced then they are overseen/managed by an MLL staff member (engineer or project manager). Also, MLL Network Design and Construction Manuals are provided to all major contractors. Deviations from plans are limited through the control of components allocated to each task. Asset inspections are performed through the use of external contractors; data collection is controlled through the use of infield electronic devices for recording asset data.	MLL occassionally sources external contractors to undertake asset inspections and/or maintenance and more rarely, asset renewal works.	Where an organisation chooses to outsource some of its asset management activities, the organisation must ensure that these outsourced process(es) are under appropriate control to ensure that all the requirements of widely used AM standards (eg, PAS 55) are in place, and the asset management policy, strategy objectives and plan(s) are delivered. This includes ensuring capabilities and resources across a time span aligned to life cycle management. The organisation must put arrangements in place to control the outsourced activities, whether it be to external providers or to other in-house departments. This question explores what the organisation does in this regard.	Top management. The management team that has overall responsibility for asset management. The manager(s) responsible for the monitoring and management of the outsourced activities. People involved with the procurement of outsourced activities. The people within the organisations that are performing the outsourced activities. The people impacted by the outsourced activity.	The organisation's arrangements that detail the compliance required of the outsourced activities. For example, this this could form part of a contract or service level agreement between the organisation and the suppliers of its outsourced activities. Evidence that the organisation has demonstrated to itself that it has assurance of compliance of outsourced activities.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
37	Structure, authority and responsibilities	What has the organisation done to appoint member(s) of its management team to be responsible for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s)?	Top management has not considered the need to appoint a person or persons to ensure that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s).	Top management understands the need to appoint a person or persons to ensure that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s).	Top management has appointed an appropriate people to ensure the assets deliver the requirements of the asset management strategy, objectives and plan(s) but their areas of responsibility are not fully defined and/or they have insufficient delegated authority to fully execute their responsibilities.	The appointed person or persons have full responsibility for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s). They have been given the necessary authority to achieve this.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
40	Structure, authority and responsibilities	What evidence can the organisation's top management provide to demonstrate that sufficient resources are available for asset management?	The organisation's top management has not considered the resources required to deliver asset management.	The organisations top management understands the need for sufficient resources but there are no effective mechanisms in place to ensure this is the case.	A process exists for determining what resources are required for its asset management activities and in most cases these are available but in some instances resources remain insufficient.	An effective process exists for determining the resources needed for asset management and sufficient resources are available. It can be demonstrated that resources are matched to asset management requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
42	Structure, authority and responsibilities	To what degree does the organisation's top management communicate the importance of meeting its asset management requirements?	The organisation's top management has not considered the need to communicate the importance of meeting asset management requirements.	The organisations top management understands the need to communicate the importance of meeting its asset management requirements but does not do so.	Top management communicates the importance of meeting its asset management requirements but only to parts of the organisation.	Top management communicates the importance of meeting its asset management requirements to all relevant parts of the organisation.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
45	Outsourcing of asset management activities	Where the organisation has outsourced some of its asset management activities, how has it ensured that appropriate controls are in place to ensure the compliant delivery of its organisational strategic plan, and its asset management policy and strategy?	The organisation has not considered the need to put controls in place.	The organisation controls its outsourced activities on an ad-hoc basis, with little regard for ensuring for the compliant delivery of the organisational strategic plan and/or its asset management policy and strategy.	Controls systematically considered but currently only provide for the compliant delivery of some, but not all, aspects of the organisational strategic plan and/or its asset management policy and strategy. Gaps exist.	Evidence exists to demonstrate that outsourced activities are appropriately controlled to provide for the compliant delivery of the organisational strategic plan, asset management policy and strategy, and that these controls are integrated into the asset management system	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
48	Training, awareness and competence	How does the organisation develop plan(s) for the human resources required to undertake asset management activities - including the development and delivery of asset management strategy, process(es), objectives and plan(s)?	2.5	MLL AMP and position descriptions largely cover this off. MLL does not have a formal succession plan or assessment of human resource requirements which is a potential area for improvement. As per previous comment, MLL could consider creating a role specifically dedicated primarily to asset management.		There is a need for an organisation to demonstrate that it has considered what resources are required to develop and implement its asset management system. There is also a need for the organisation to demonstrate that it has assessed what development plan(s) are required to provide its human resources with the skills and competencies to develop and implement its asset management systems. The timescales over which the plan(s) are relevant should be commensurate with the planning horizons within the asset management strategy considers e.g. if the asset management strategy considers 5, 10 and 15 year time scales then the human resources development plan(s) should align with these. Resources include both 'in house' and external resources who undertake asset management activities.	Senior management responsible for agreement of plan(s). Managers responsible for developing asset management strategy and plan(s). Managers with responsibility for development and recruitment of staff (including HR functions). Staff responsible for training. Procurement officers. Contracted service providers.	Evidence of analysis of future work load plan(s) in terms of human resources. Document(s) containing analysis of the organisation's own direct resources and contractors resource capability over suitable timescales. Evidence, such as minutes of meetings, that suitable management forums are monitoring human resource development plan(s). Training plan(s), personal development plan(s), contract and service level agreements.
49	Training, awareness and competence	How does the organisation identify competency requirements and then plan, provide and record the training necessary to achieve the competencies?	3	Fundamentally, the recruitment of people to fit job descriptions who already largely have required competenices. For graduates, training programmes/external courses are attended to develop competencies. MLL has a competency framework which is managed. Mango also houses training records for all staff. Annual professional development plans are also carried out by managers with their staff.		Widely used AM standards require that organisations to undertake a systematic identification of the asset management awareness and competencies required at each level and function within the organisation. Once identified the training required to provide the necessary competencies should be planned for delivery in a timely and systematic way. Any training provided must be recorded and maintained in a suitable format. Where an organisation has contracted service providers in place then it should have a means to demonstrate that this requirement is being met for their employees. (eg, PAS 55 refers to frameworks suitable for identifying competency requirements).	Senior management responsible for agreement of plan(s). Managers responsible for developing asset management strategy and plan(s). Managers with responsibility for development and recruitment of staff (including HR functions). Staff responsible for training. Procurement officers. Contracted service providers.	Evidence of an established and applied competency requirements assessment process and plan(s) in place to deliver the required training. Evidence that the training programme is part of a wider, co-ordinated asset management activities training and competency programme. Evidence that training activities are recorded and that records are readily available (for both direct and contracted service provider staff) e.g. via organisation wide information system or local records database.
50	Training, awareness and competence	How does the organization ensure that persons under its direct control undertaking asset management related activities have an appropriate level of competence in terms of education, training or experience?	3	No significant change from 2016 AMMAT response. Competency requirement registers for Network and Contracting staff are maintained though the ISO9001 system. This highlights regular training requirements, levels of staff competency, and required refresher training dates. A key focus of the organisation is continued training and professional development for all staff. Key staff attend various industry training and/or conference events such as EEA Asset management training and the EEA asset management forum.		A critical success factor for the effective development and implementation of an asset management system is the competence of persons undertaking these activities. organisations should have effective means in place for ensuring the competence of employees to carry out their designated asset management function(s). Where an organisation has contracted service providers undertaking elements of its asset management system then the organisation shall assure itself that the outsourced service provider also has suitable arrangements in place to manage the competencies of its employees. The organisation should ensure that the individual and corporate competencies it requires are in place and actively monitor, develop and maintain an appropriate balance of these competencies.	Managers, supervisors, persons responsible for developing training programmes. Staff responsible for procurement and service agreements. HR staff and those responsible for recruitment.	Evidence of a competency assessment framework that aligns with established frameworks such as the asset management Competencies Requirements Framework (Version 2.0); National Occupational Standards for Management and Leadership; UK Standard for Professional Engineering Competence, Engineering Council, 2005.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
48	Training, awareness and competence	How does the organisation develop plan(s) for the human resources required to undertake asset management activities - including the development and delivery of asset management strategy, process(es), objectives and plan(s)?	The organisation has not recognised the need for assessing human resources requirements to develop and implement its asset management system.	The organisation has recognised the need to assess its human resources requirements and to develop a plan(s). There is limited recognition of the need to align these with the development and implementation of its asset management system.	The organisation has developed a strategic approach to aligning competencies and human resources to the asset management system including the asset management plan but the work is incomplete or has not been consistently implemented.	The organisation can demonstrate that plan(s) are in place and effective in matching competencies and capabilities to the asset management system including the plan for both internal and contracted activities. Plans are reviewed integral to asset management system process(es).	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
49	Training, awareness and competence	How does the organisation identify competency requirements and then plan, provide and record the training necessary to achieve the competencies?	The organisation does not have any means in place to identify competency requirements.	The organisation has recognised the need to identify competency requirements and then plan, provide and record the training necessary to achieve the competencies.	The organisation is the process of identifying competency requirements aligned to the asset management plan(s) and then plan, provide and record appropriate training. It is incomplete or inconsistently applied.	Competency requirements are in place and aligned with asset management plan(s). Plans are in place and effective in providing the training necessary to achieve the competencies. A structured means of recording the competencies achieved is in place.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
50	Training, awareness and competence	How does the organization ensure that persons under its direct control undertaking asset management related activities have an appropriate level of competence in terms of education, training or experience?	The organization has not recognised the need to assess the competence of person(s) undertaking asset management related activities.	Competency of staff undertaking asset management related activities is not managed or assessed in a structured way, other than formal requirements for legal compliance and safety management.	The organization is in the process of putting in place a means for assessing the competence of person(s) involved in asset management activities including contractors. There are gaps and inconsistencies.	Competency requirements are identified and assessed for all persons carrying out asset management related activities - internal and contracted. Requirements are reviewed and staff reassessed at appropriate intervals aligned to asset management requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
53	Communication, participation and consultation	How does the organisation ensure that pertinent asset management information is effectively communicated to and from employees and other stakeholders, including contracted service providers?	3	A number of artefacts here - Annual Report, quarterly newsletters, AMP, specifc letters to targetted stakeholders (e.g. vineyards and tradespeople working near overhead lines). In addition to what is disclosed annually through the MLL AMP, regular planning meetings between the BoD and exec staff, Network and Contracting management, and Network and Operations/Faults staff are held. Annual releases of the company report and Statement of Corporate Intent both communicate the importance of network reliability.		Widely used AM practice standards require that pertinent asset management information is effectively communicated to and from employees and other stakeholders including contracted service providers. Pertinent information refers to information required in order to effectively and efficiently comply with and deliver asset management strategy, plan(s) and objectives. This will include for example the communication of the asset management policy, asset performance information, and planning information as appropriate to contractors.	Top management and senior management representative(s), employee's representative(s), employee's trade union representative(s); contracted service provider management and employee representative(s); representative(s) from the organisation's Health, Safety and Environmental team. Key stakeholder representative(s).	Asset management policy statement prominently displayed on notice boards, intranet and internet; use of organisation's website for displaying asset performance data; evidence of formal briefings to employees, stakeholders and contracted service providers; evidence of inclusion of asset management issues in team meetings and contracted service provider contract meetings; newsletters, etc.
59	Asset Management System documentation	What documentation has the organisation established to describe the main elements of its asset management system and interactions between them?	3	MLL's AMP largely covers this off and outlines the asset management system and interactions between them. The ISO9001 system provides an overall process map of how these systems inter-relate with one another.		Widely used AM practice standards require an organisation maintain up to date documentation that ensures that its asset management systems (ie, the systems the organisation has in place to meet the standards) can be understood, communicated and operated. (eg, s 4.5 of PAS 55 requires the maintenance of up to date documentation of the asset management system requirements specified throughout s 4 of PAS 55).	The management team that has overall responsibility for asset management. Managers engaged in asset management activities.	The documented information describing the main elements of the asset management system (process(es)) and their interaction.
62	Information management	What has the organisation done to determine what its asset management information system(s) should contain in order to support its asset management system?	3	Information systems are in place for the management of asset data. The primary system is the EAM asset database, as well as MLL's GIS. MLL SCADA also collects real time data on asset utilisation in the field. Primary users of asset data and asset management staff have been consulted to determine the level and type of data required for planning asset management related tasks.	MLL has a number of information systems which provide various functionalities for the recording and management of asset data. The data is used for various means - reporting purposes, asset management planning etc.	Effective asset management requires appropriate information to be available. Widely used AM standards therefore require the organisation to identify the asset management information it requires in order to support its asset management system. Some of the information required may be held by suppliers. The maintenance and development of asset management information systems is a poorly understood specialist activity that is akin to IT management but different from IT management. This group of questions provides some indications as to whether the capability is available and applied. Note: To be effective, an asset information management system requires the mobilisation of technology, people and process(es) that create, secure, make available and destroy the information required to support the asset management system.	The organisation's strategic planning team. The management team that has overall responsibility for asset management. Information management team. Operations, maintenance and engineering managers	Details of the process the organisation has employed to determine what its asset information system should contain in order to support its asset management system. Evidence that this has been effectively implemented.
63	Information management	How does the organisation maintain its asset management information system(s) and ensure that the data held within it (them) is of the requisite quality and accuracy and is consistent?	3	Staff are employed to populate asset databases and the GIS when asset inspections, renewals or replacements occur. MLL is currenlty trialling a mobile application for collecting asset information in the field. MLL could potentially improve in this area by creating an asset management/data team with more		The response to the questions is progressive. A higher scale cannot be awarded without achieving the requirements of the lower scale. This question explores how the organisation ensures that information management meets widely used AM practice requirements (eg, s 4.4.6 (a), (c) and (d) of PAS 55).	The management team that has overall responsibility for asset management. Users of the organisational information systems.	The asset management information system, together with the policies, procedure(s), improvement initiatives and audits regarding information controls.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
53	Communication, participation and consultation	How does the organisation ensure that pertinent asset management information is effectively communicated to and from employees and other stakeholders, including contracted service providers?	The organisation has not recognised the need to formally communicate any asset management information.	There is evidence that the pertinent asset management information to be shared along with those to share it with is being determined.	The organisation has determined pertinent information and relevant parties. Some effective two way communication is in place but as yet not all relevant parties are clear on their roles and responsibilities with respect to asset management information.	Two way communication is in place between all relevant parties, ensuring that information is effectively communicated to match the requirements of asset management strategy, plan(s) and process(es). Pertinent asset information requirements are regularly reviewed.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
59	Asset Management System documentation	What documentation has the organisation established to describe the main elements of its asset management system and interactions between them?	The organisation has not established documentation that describes the main elements of the asset management system.	The organisation is aware of the need to put documentation in place and is in the process of determining how to document the main elements of its asset management system.	The organisation in the process of documenting its asset management system and has documentation in place that describes some, but not all, of the main elements of its asset management system and their interaction.	The organisation has established documentation that comprehensively describes all the main elements of its asset management system and the interactions between them. The documentation is kept up to date.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
62	Information management	What has the organisation done to determine what its asset management information system(s) should contain in order to support its asset management system?	The organisation has not considered what asset management information is required.	The organisation is aware of the need to determine in a structured manner what its asset information system should contain in order to support its asset management system and is in the process of deciding how to do this.	The organisation has developed a structured process to determine what its asset information system should contain in order to support its asset management system and has commenced implementation of the process.	The organisation has determined what its asset information system should contain in order to support its asset management system. The requirements relate to the whole life cycle and cover information originating from both internal and external sources.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
63	Information management	How does the organisation maintain its asset management information system(s) and ensure that the data held within it (them) is of the requisite quality and accuracy and is consistent?	There are no formal controls in place or controls are extremely limited in scope and/or effectiveness.	The organisation is aware of the need for effective controls and is in the process of developing an appropriate control process(es).	The organisation has developed a controls that will ensure the data held is of the requisite quality and accuracy and is consistent and is in the process of implementing them.	The organisation has effective controls in place that ensure the data held is of the requisite quality and accuracy and is consistent. The controls are regularly reviewed and improved where necessary.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB'S self-assessment of the maturity of its asset management practices .

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
64	Information management	How has the organisation's ensured its asset management information system is relevant to its needs?	3	The AMP discloses what information systems are in place within the company, what information they hold and the typical users of such systems. All systems used within MLL are typical to those used in other EDBs and have been selected based on their abilities to fulfil the identified needs of MLL through a detailed procurement process.		Widely used AM standards need not be prescriptive about the form of the asset management information system, but simply require that the asset management information system is appropriate to the organisations needs, can be effectively used and can supply information which is consistent and of the requisite quality and accuracy.	The organisation's strategic planning team. The management team that has overall responsibility for asset management. Information management team. Users of the organisational information systems.	The documented process the organisation employs to ensure its asset management information system aligns with its asset management requirements. Minutes of information systems review meetings involving users.
69	Risk management process(es)	How has the organisation documented process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle?	3	The AMP and Emergency Preparedness Plan develop a risk register and disclose risk mitigation strategies. Physical asset risks are implicitly considered when new assets are designed or when opportunities arise to renew assets arise. Asset failures are examined to identify any systematic issues. Executive staff are involved in regulatory working groups with the aim of minimising regulatory risk.		Risk management is an important foundation for proactive asset management. Its overall purpose is to understand the cause, effect and likelihood of adverse events occurring, to optimally manage such risks to an acceptable level, and to provide an audit trail for the management of risks. Widely used standards require the organisation to have process(es) and/or procedure(s) in place that set out how the organisation identifies and assesses asset and asset management related risks. The risks have to be considered across the four phases of the asset lifecycle (eg, para 4.3.3 of PAS 55).	The top management team in conjunction with the organisation's senior risk management representatives. There may also be input from the organisation's Safety, Health and Environment team. Staff who carry out risk identification and assessment.	The organisation's risk management framework and/or evidence of specific process(es) and/ or procedure(s) that deal with risk control mechanisms. Evidence that the process(es) and/or procedure(s) are implemented across the business and maintained. Evidence of agendas and minutes from risk management meetings. Evidence of feedback in to process(es) and/or procedure(s) as a result of incident investigation(s). Risk registers and assessments.
79	Use and maintenance of asset risk information	How does the organisation ensure that the results of risk assessments provide input into the identification of adequate resources and training and competency needs?	3	The risk chapter of the AMP develops a number of risk treatments, which in turn determines required activities and resources to mitigate risks. This is a key driver in determining training and competency needs of MLL staff		Widely used AM standards require that the output from risk assessments are considered and that adequate resource (including staff) and training is identified to match the requirements. It is a further requirement that the effects of the control measures are considered, as there may be implications in resources and training required to achieve other objectives.	Staff responsible for risk assessment and those responsible for developing and approving resource and training plan(s). There may also be input from the organisation's Safety, Health and Environment team.	The organisations risk management framework. The organisation's resourcing plan(s) and training and competency plan(s). The organisation should be able to demonstrate appropriate linkages between the content of resource plan(s) and training and competency plan(s) to the risk assessments and risk control measures that have been developed.
82	Legal and other requirements	What procedure does the organisation have to identify and provide access to its legal, regulatory, statutory and other asset management requirements, and how is requirements incorporated into the asset management system?	3	Regular contact is maintained with the Electricity Authority and the Commerce Commission to ensure currency with existing and emerging regulations, including the attendance of industry workshops. Executive Staff regularly receive bulletins, alerts and newsletters from consultants, regulators and government agencies.		In order for an organisation to comply with its legal, regulatory, statutory and other asset management requirements, the organisation first needs to ensure that it knows what they are (eg, PAS 55 specifies this in s 4.4.8). It is necessary to have systematic and auditable mechanisms in place to identify new and changing requirements. Widely used AM standards also require that requirements are incorporated into the asset management system (e.g. procedure(s) and process(es))	Top management. The organisations regulatory team. The organisation's legal team or advisors. The management team with overall responsibility for the asset management system. The organisation's health and safety team or advisors. The organisation's policy making team.	The organisational processes and procedures for ensuring information of this type is identified, made accessible to those requiring the information and is incorporated into asset management strategy and objectives

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
64	Information management	How has the organisation's ensured its asset management information system is relevant to its needs?	The organisation has not considered the need to determine the relevance of its management information system. At present there are major gaps between what the information system provides and the organisations needs.	The organisation understands the need to ensure its asset management information system is relevant to its needs and is determining an appropriate means by which it will achieve this. At present there are significant gaps between what the information system provides and the organisations needs.	The organisation has developed and is implementing a process to ensure its asset management information system is relevant to its needs. Gaps between what the information system provides and the organisations needs have been identified and action is being taken to close them.	The organisation's asset management information system aligns with its asset management requirements. Users can confirm that it is relevant to their needs.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
69	Risk management process(es)	How has the organisation documented process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle?	The organisation has not considered the need to document process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle.	The organisation is aware of the need to document the management of asset related risk across the asset lifecycle. The organisation has plan(s) to formally document all relevant process(es) and procedure(s) or has already commenced this activity.	The organisation is in the process of documenting the identification and assessment of asset related risk across the asset lifecycle but it is incomplete or there are inconsistencies between approaches and a lack of integration.	Identification and assessment of asset related risk across the asset lifecycle is fully documented. The organisation can demonstrate that appropriate documented mechanisms are integrated across life cycle phases and are being consistently applied.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
79	Use and maintenance of asset risk information	How does the organisation ensure that the results of risk assessments provide input into the identification of adequate resources and training and competency needs?	The organisation has not considered the need to conduct risk assessments.	The organisation is aware of the need to consider the results of risk assessments and effects of risk control measures to provide input into reviews of resources, training and competency needs. Current input is typically ad-hoc and reactive.	The organisation is in the process ensuring that outputs of risk assessment are included in developing requirements for resources and training. The implementation is incomplete and there are gaps and inconsistencies.	Outputs from risk assessments are consistently and systematically used as inputs to develop resources, training and competency requirements. Examples and evidence is available.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
82	Legal and other requirements	What procedure does the organisation have to identify and provide access to its legal, regulatory, statutory and other asset management requirements, and how is requirements incorporated into the asset management system?	The organisation has not considered the need to identify its legal, regulatory, statutory and other asset management requirements.	The organisation identifies some its legal, regulatory, statutory and other asset management requirements, but this is done in an ad-hoc manner in the absence of a procedure.	The organisation has procedure(s) to identify its legal, regulatory, statutory and other asset management requirements, but the information is not kept up to date, inadequate or inconsistently managed.	Evidence exists to demonstrate that the organisation's legal, regulatory, statutory and other asset management requirements are identified and kept up to date. Systematic mechanisms for identifying relevant legal and statutory requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
88	Life Cycle Activities	How does the organisation establish implement and maintain process(es) for the implementation of its asset management plan(s) and control of activities across the creation, acquisition or enhancement of assets. This includes design, modification, procurement, construction and commissioning activities?	3	The Network Design Standards manual are controlled documents, where changes must be approved by the Engineering Manager or Operations Manager. Most other processes affecting AM outcomes such as billing, payments, new connections etc are covered by ISO9001 document controls. Components are procured from specified sources only, and these are documented within the Standards. MLL is also accredited with ISO14001, 18001 and NZS7901		Life cycle activities are about the implementation of asset management plan(s) i.e. they are the "doing" phase. They need to be done effectively and well in order for asset management to have any practical meaning. As a consequence, widely used standards (eg, PAS 55 s 4.5.1) require organisations to have in place appropriate process(es) and procedure(s) for the implementation of asset management plan(s) and control of lifecycle activities. This question explores those aspects relevant to asset creation.	Asset managers, design staff, construction staff and project managers from other impacted areas of the business, e.g. Procurement	Documented process(es) and procedure(s) which are relevant to demonstrating the effective management and control of life cycle activities during asset creation, acquisition, enhancement including design, modification, procurement, construction and commissioning.
91	Life Cycle Activities	How does the organisation ensure that process(es) and/or procedure(s) for the implementation of asset management plan(s) and control of activities during maintenance (and inspection) of assets are sufficient to ensure activities are carried out under specified conditions, are consistent with asset management strategy and control cost, risk and performance?	2.5	All major maintenance tasks are performed by MLL Contracting after provision of an estimate to Network, which is then accepted dependant on cost. All work performed within the network is performed to the level demanded by the Design and Construction Standards. Asset inspections are performed by experienced individuals and information collected on inspections is controlled through the use of asset inspection templates.		Having documented process(es) which ensure the asset management plan(s) are implemented in accordance with any specified conditions, in a manner consistent with the asset management policy, strategy and objectives and in such a way that cost, risk and asset system performance are appropriately controlled is critical. They are an essential part of turning intention into action (eg, as required by PAS 55 s 4.5.1).	Asset managers, operations managers, maintenance managers and project managers from other impacted areas of the business	Documented procedure for review. Documented procedure for audit of process delivery. Records of previous audits, improvement actions and documented confirmation that actions have been carried out.
95	Performance and condition monitoring	How does the organisation measure the performance and condition of its assets?	3	Asset condition and performance is firstly monitored by strict adherence to the Network Design and Construction Standards, with tight control of variations from the Standards. Failure of in-service assets is monitored, with serious failures or possible patterns being referred to Engineering for analysis. Regular field inspections are carried out and result trending provide ongoing condition assessment.		Widely used AM standards require that organisations establish implement and maintain procedure(s) to monitor and measure the performance and/or condition of assets and asset systems. They further set out requirements in some detail for reactive and proactive monitoring, and leading/lagging performance indicators together with the monitoring or results to provide input to corrective actions and continual improvement. There is an expectation that performance and condition monitoring will provide input to improving asset management strategy, objectives and plan(s).	A broad cross-section of the people involved in the organisation's asset-related activities from data input to decision-makers, i.e. an end-to end assessment. This should include contactors and other relevant third parties as appropriate.	Functional policy and/or strategy documents for performance or condition monitoring and measurement. The organisation's performance monitoring frameworks, balanced scorecards etc. Evidence of the reviews of any appropriate performance indicators and the action lists resulting from these reviews. Reports and trend analysis using performance and condition information. Evidence of the use of performance and condition information shaping improvements and supporting asset management strategy, objectives and plan(s).
99	Investigation of asset-related failures, incidents and nonconformities	How does the organisation ensure responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear, unambiguous, understood and communicated?	3	First response for asset failures impacting is to the Control Room who will dispatch staff to isolate and inspect faulted assets. Asset faults and failures are investigated to identify any systematic failures or recurring fault causes that can be corrected. Major incidents are investigated by engineering and management staff to identify point of failure and likely causes to prevent recurrences.		Widely used AM standards require that the organisation establishes implements and maintains process(es) for the handling and investigation of failures incidents and non-conformities for assets and sets down a number of expectations. Specifically this question examines the requirement to define clearly responsibilities and authorities for these activities, and communicate these unambiguously to relevant people including external stakeholders if appropriate.	The organisation's safety and environment management team. The team with overall responsibility for the management of the assets. People who have appointed roles within the asset-related investigation procedure, from those who carry out the investigations to senior management who review the recommendations. Operational controllers responsible for managing the asset base under fault conditions and maintaining services to consumers. Contractors and other third parties as appropriate.	Process(es) and procedure(s) for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances. Documentation of assigned responsibilities and authority to employees. Job Descriptions, Audit reports. Common communication systems i.e. all Job Descriptions on Internet etc.

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Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
88	Life Cycle Activities	How does the organisation establish implement and maintain process(es) for the implementation of its asset management plan(s) and control of activities across the creation, acquisition or enhancement of assets. This includes design, modification, procurement, construction and commissioning activities?	The organisation does not have process(es) in place to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning.	The organisation is aware of the need to have process(es) and procedure(s) in place to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning but currently do not have these in place (note: procedure(s) may exist but they are inconsistent/incomplete).	The organisation is in the process of putting in place process(es) and procedure(s) to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning. Gaps and inconsistencies are being addressed.	Effective process(es) and procedure(s) are in place to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
91	Life Cycle Activities	How does the organisation ensure that process(es) and/or procedure(s) for the implementation of asset management plan(s) and control of activities during maintenance (and inspection) of assets are sufficient to ensure activities are carried out under specified conditions, are consistent with asset management strategy and control cost, risk and performance?	The organisation does not have process(es)/procedure(s) in place to control or manage the implementation of asset management plan(s) during this life cycle phase.	The organisation is aware of the need to have process(es) and procedure(s) in place to manage and control the implementation of asset management plan(s) during this life cycle phase but currently do not have these in place and/or there is no mechanism for confirming they are effective and where needed modifying them.	The organisation is in the process of putting in place process(es) and procedure(s) to manage and control the implementation of asset management plan(s) during this life cycle phase. They include a process for confirming the process(es)/procedure(s) are effective and if necessary carrying out modifications.	The organisation has in place process(es) and procedure(s) to manage and control the implementation of asset management plan(s) during this life cycle phase. They include a process, which is itself regularly reviewed to ensure it is effective, for confirming the process(es)/ procedure(s) are effective and if necessary carrying out modifications.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
95	Performance and condition monitoring	How does the organisation measure the performance and condition of its assets?	The organisation has not considered how to monitor the performance and condition of its assets.	The organisation recognises the need for monitoring asset performance but has not developed a coherent approach. Measures are incomplete, predominantly reactive and lagging. There is no linkage to asset management objectives.	The organisation is developing coherent asset performance monitoring linked to asset management objectives. Reactive and proactive measures are in place. Use is being made of leading indicators and analysis. Gaps and inconsistencies remain.	Consistent asset performance monitoring linked to asset management objectives is in place and universally used including reactive and proactive measures. Data quality management and review process are appropriate. Evidence of leading indicators and analysis.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
99	Investigation of asset-related failures, incidents and nonconformities	How does the organisation ensure responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear, unambiguous, understood and communicated?	The organisation has not considered the need to define the appropriate responsibilities and the authorities.	The organisation understands the requirements and is in the process of determining how to define them.	The organisation are in the process of defining the responsibilities and authorities with evidence. Alternatively there are some gaps or inconsistencies in the identified responsibilities/authorities.	The organisation have defined the appropriate responsibilities and authorities and evidence is available to show that these are applied across the business and kept up to date.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
105	Audit	What has the organisation done to establish procedure(s) for the audit of its asset management system (process(es))?	3	MLL undergoes a formal audit procedure for all major compliance standards including ISO 9001, ISO 14001, ISO 18001 and NZS 7901 on an annual basis. Reports are provided with areas where potential improvements can be focussed upon.		This question seeks to explore what the organisation has done to comply with the standard practice AM audit requirements (eg, the associated requirements of PAS 55 s 4.6.4 and its linkages to s 4.7).	The management team responsible for its asset management procedure(s). The team with overall responsibility for the management of the assets. Audit teams, together with key staff responsible for asset management. For example, Asset Management Director, Engineering Director. People with responsibility for carrying out risk assessments	The organisation's asset-related audit procedure(s). The organisation's methodology(s) by which it determined the scope and frequency of the audits and the criteria by which it identified the appropriate audit personnel. Audit schedules, reports etc. Evidence of the procedure(s) by which the audit results are presented, together with any subsequent communications. The risk assessment schedule or risk registers.
109	Corrective & Preventative action	How does the organisation instigate appropriate corrective and/or preventive actions to eliminate or prevent the causes of identified poor performance and non conformance?	3	Faults or defects within the network discovered by maintenance or fault staff are reported to the control room if a safety or network integrity issue may arise and reported to Engineering for analysis and correction. Network fault reviews identify sections of the network where issues regularly arise and can be minimized by the installation of protective devices.		Having investigated asset related failures, incidents and non-conformances, and taken action to mitigate their consequences, an organisation is required to implement preventative and corrective actions to address root causes. Incident and failure investigations are only useful if appropriate actions are taken as a result to assess changes to a businesses risk profile and ensure that appropriate arrangements are in place should a recurrence of the incident happen. Widely used AM standards also require that necessary changes arising from preventive or corrective action are made to the asset management system.	The management team responsible for its asset management procedure(s). The team with overall responsibility for the management of the assets. Audit and incident investigation teams. Staff responsible for planning and managing corrective and preventive actions.	Analysis records, meeting notes and minutes, modification records. Asset management plan(s), investigation reports, audit reports, improvement programmes and projects. Recorded changes to asset management procedure(s) and process(es). Condition and performance reviews. Maintenance reviews
113	Continual Improvement	How does the organisation achieve continual improvement in the optimal combination of costs, asset related risks and the performance and condition of assets and asset systems across the whole life cycle?	2.5	Continual improvement is a core element of ISO9001. Risk is continually considered in ongoing engineering design. Network fault reviews occur to identify regular defects which are then remedied where possible. Annual customer surveys are performed with regard to electricity lines charges and quality of supply to ensure customer satisfaction.		Widely used AM standards have requirements to establish, implement and maintain process(es)/procedure(s) for identifying, assessing, prioritising and implementing actions to achieve continual improvement. Specifically there is a requirement to demonstrate continual improvement in optimisation of cost risk and performance/condition of assets across the life cycle. This question explores an organisation's capabilities in this area—looking for systematic improvement mechanisms rather that reviews and audit (which are separately examined).	The top management of the organisation. The manager/team responsible for managing the organisation's asset management system, including its continual improvement. Managers responsible for policy development and implementation.	Records showing systematic exploration of improvement. Evidence of new techniques being explored and implemented. Changes in procedure(s) and process(es) reflecting improved use of optimisation tools/techniques and available information. Evidence of working parties and research.
115	Continual Improvement	How does the organisation seek and acquire knowledge about new asset management related technology and practices, and evaluate their potential benefit to the organisation?	3	Key staff involved with AM regularly attend industry conferences, courses and trade shows, such as those hosted by the EEA. MLL staff perform visits to other EDBs around the country and AM methods are discussed and reviewed. MLL is in the process of moving to modern GIS and AM software packages in order to perform AM related activities at an increased level.		One important aspect of continual improvement is where an organisation looks beyond its existing boundaries and knowledge base to look at what 'new things are on the market'. These new things can include equipment, process(es), tools, etc. An organisation which does this (eg, by the PAS 55 s 4.6 standards) will be able to demonstrate that it continually seeks to expand its knowledge of all things affecting its asset management approach and capabilities. The organisation will be able to demonstrate that it identifies any such opportunities to improve, evaluates them for suitability to its own organisation and implements them as appropriate. This question explores an organisation's approach to this activity.	The top management of the organisation. The manager/team responsible for managing the organisation's asset management system, including its continual improvement. People who monitor the various items that require monitoring for 'change'. People that implement changes to the organisation's policy, strategy, etc. People within an organisation with responsibility for investigating, evaluating, recommending and implementing new tools and techniques, etc.	Research and development projects and records, benchmarking and participation knowledge exchange professional forums. Evidence of correspondence relating to knowledge acquisition. Examples of change implementation and evaluation of new tools, and techniques linked to asset management strategy and objectives.

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Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
105	Audit	What has the organisation done to establish procedure(s) for the audit of its asset management system (process(es))?	The organisation has not recognised the need to establish procedure(s) for the audit of its asset management system.	The organisation understands the need for audit procedure(s) and is determining the appropriate scope, frequency and methodology(s).	The organisation is establishing its audit procedure(s) but they do not yet cover all the appropriate asset-related activities.	The organisation can demonstrate that its audit procedure(s) cover all the appropriate asset-related activities and the associated reporting of audit results. Audits are to an appropriate level of detail and consistently managed.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
109	Corrective & Preventative action	How does the organisation instigate appropriate corrective and/or preventive actions to eliminate or prevent the causes of identified poor performance and non conformance?	The organisation does not recognise the need to have systematic approaches to instigating corrective or preventive actions.	The organisation recognises the need to have systematic approaches to instigating corrective or preventive actions. There is ad-hoc implementation for corrective actions to address failures of assets but not the asset management system.	The need is recognized for systematic instigation of preventive and corrective actions to address root causes of non compliance or incidents identified by investigations, compliance evaluation or audit. It is only partially or inconsistently in place.	Mechanisms are consistently in place and effective for the systematic instigation of preventive and corrective actions to address root causes of non compliance or incidents identified by investigations, compliance evaluation or audit.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
113	Continual Improvement	How does the organisation achieve continual improvement in the optimal combination of costs, asset related risks and the performance and condition of assets and asset systems across the whole life cycle?	The organisation does not consider continual improvement of these factors to be a requirement, or has not considered the issue.	A Continual Improvement ethos is recognised as beneficial, however it has just been started, and or covers partially the asset drivers.	Continuous improvement process(es) are set out and include consideration of cost risk, performance and condition for assets managed across the whole life cycle but it is not yet being systematically applied.	There is evidence to show that continuous improvement process(es) which include consideration of cost risk, performance and condition for assets managed across the whole life cycle are being systematically applied.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
115	Continual Improvement	How does the organisation seek and acquire knowledge about new asset management related technology and practices, and evaluate their potential benefit to the organisation?	The organisation makes no attempt to seek knowledge about new asset management related technology or practices.	The organisation is inward looking, however it recognises that asset management is not sector specific and other sectors have developed good practice and new ideas that could apply. Ad-hoc approach.	The organisation has initiated asset management communication within sector to share and, or identify 'new' to sector asset management practices and seeks to evaluate them.	The organisation actively engages internally and externally with other asset management practitioners, professional bodies and relevant conferences. Actively investigates and evaluates new practices and evolves its asset management activities using appropriate developments.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

Company Name	Marlborough Lines Limited
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Schedule 14 Mandatory Explanatory Notes

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 2.5.2(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 12 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 1.64% and an ROI comparable to the vanilla WACC of 2.24%. These are both well below the mid-point regulated WACC of 5.04% and 5.60% 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 our discount was discretionary, like many other EDBs in the industry, then the discount is not included in the calculation. If our discount was discretionary, rather than posted, then our ROI would have been 5.51% (post tax) or 6.10% (vanilla).

Schedule 2 (iii) has not been completed as the value of assets commissioned for 2018 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-

5.1 a description of material items included in other regulated income (other than gains / (losses) on asset disposals), as disclosed in 3(i) of Schedule 3

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

Box 2: Explanatory comment on regulatory profit

The operating surplus for 2018 of $13.157m is above our 2017 result of $11.591m largely as a result of the increased operating expenses as a result of the November 2016 earthquake and associated response included in the prior year.

The overall regulatory profit for 2018 of $4.916m is down on our 2017 result of $5.773m largely due to reduced revaluation income due to lower CPI in 2018.

Other regulated income includes:

- Capacity and development charges
- Recoveries from fault work
- Sales of scrap (relating to the disposal of assets from the RAB)

No items have been reclassified in the disclosure year.

Merger and acquisition expenses (3(iv) of Schedule 3)

6. If the EDB incurred merger and acquisitions expenditure during the disclosure year, provide the following information in the box below-

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

6.2 any other commentary on the benefits of the merger and acquisition expenditure to the EDB.

Box 3: Explanatory comment on merger and acquisition expenditure

No expenditure has been included in these information disclosure accounts.

Value of the Regulatory Asset Base (Schedule 4)

7. In the box below, comment on the value of the regulatory asset base (rolled forward) in Schedule 4. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 4: Explanatory comment on the value of the regulatory asset based (rolled forward)

Our RAB has increased by $0.4m during the disclosure year. This increase is below the previous year's increase, due to lower revaluation increase and an increase in disposed assets this year as the Company sold some surplus property that was previously acquired for network purposes.

No items were reclassified in the disclosure year.

Regulatory tax allowance: disclosure of permanent differences (5a(i) of Schedule 5a)

8. In the box below, provide descriptions and workings of the material items recorded in the following asterisked categories of 5a(i) of Schedule 5a-

    8.1 Income not included in regulatory profit / (loss) before tax but taxable;

    8.2 Expenditure or loss in regulatory profit / (loss) before tax but not deductible;

    8.3 Income included in regulatory profit / (loss) before tax but not taxable;

    8.4 Expenditure or loss deductible but not in regulatory profit / (loss) before tax.

Box 5: Regulatory tax allowance: permanent differences

8.1 Nil
8.2 Non deductible expenditure of $64k
8.3 Nil
8.4 Nil

Regulatory tax allowance: disclosure of temporary differences (5a(vi) of Schedule 5a)

9. In the box below, provide descriptions and workings of material items recorded in the asterisked category 'Tax effect of other temporary differences' in 5a(vi) of Schedule 5a.

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

The tax effect of temporary differences includes the following:

Decrease in employee provisions	($43k)
Increase in bad debts provisions	$9k
Amortisation of capital contributions	$48k
Deductible expenditure	($267k)

Related party transactions: disclosure of related party transactions (Schedule 5b)

10. In the box below, provide descriptions of related party transactions beyond those disclosed on Schedule 5b including identification and descriptions as to the nature of directly attributable costs disclosed under subclause 2.3.6(1)(b).

Box 7: Related party transactions

No further related party transaction beyond those described in Schedule 5b.

Cost allocation (Schedule 5d)

11. 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 8: 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)

12. 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 9: 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)

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

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

    13.2 information on reclassified items in accordance with subclause 2.7.1(2),

Box 10: 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)

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

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

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

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

Box 11: 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)

15. 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 12: Explanatory comment on variance in actual to forecast expenditure

Overall, total expenditure was greater than forecast by 9%. Expenditure on assets was 1% less than forecast, with operating expenditure 18% higher than that forecast.

Our capital and maintenance programme has been delivered close to budget this year and the operating expenditure variance largely relates to our forecast of non-network opex. This forecast has been revisited in the 2018 AMP to more accurately reflect the ongoing costs of the business.

No items have been reclassified in the disclosure year.

Information relating to revenues and quantities for the disclosure year

16. In the box below provide-

    16.1 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

    16.2 explanatory comment on reasons for any material differences between target revenue and total billed line charge revenue.

Box 13: Explanatory comment relating to revenue for the disclosure year

Line charge revenue for 2018 of $35.902m (net of our posted discount of $8.308m) is 1.8% above target revenue of $35.260m as a result of improved volumes. Volumes are 1.1% greater than last year.

Network Reliability for the Disclosure Year (Schedule 10)

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

Box 14: Commentary on network reliability for the disclosure year

Unadjusted SAIDI for the year was 228 minutes, which includes 107 minutes related to a Transpower outage that affected the top of the South Island.

Normalised SAIDI for the year, once the Transpower outage is excluded, was 121 minutes for 2018 which is our lowest SAIDI result on record.

Normalised SAIFI of 1.09 is in line with our five year trend.

Insurance cover

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

    18.1 The EDB's approaches and practices in regard to the insurance of assets used to provide electricity distribution services, including the level of insurance;

    18.2 In respect of any self insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.

Box 15: 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

19. 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:

    19.1 a description of each error; and

    19.2 for each error, reference to the web address where the disclosure made in accordance with clause 2.12.1 is publicly disclosed.

Box 16: 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 2018

Schedule 15 Voluntary Explanatory Notes

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

Schedule 3: Line charge revenue has been calculated post discount. The discount amount is specified in Schedule 8(ii) at $8.308m.

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.

Electricity Distribution Information Disclosure Determination 2012
- (consolidated in 2015)

Schedule 18 Certification for Year-end Disclosures

Clause 2.9.2

We, Kenneth John Forrest and Peter James Forrest, 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

In respect of related party costs and revenues recorded in accordance with subclauses 2.3.6(1) (when valued in accordance with clause 2.2.11(5)(h)(ii) of the Electricity Distribution Services Input Methodologies Determination 2010), 2.3.6(1)(f) and 2.3.7(2)(b), we certify that, having made all reasonable enquiry, including enquiries of our related parties, we are satisfied that to the best of our knowledge and belief the costs and revenues recorded for related party transactions reasonably reflect the price or prices that would have been paid or received had these transactions been at arm's-length.

Kenneth John Forrest

Peter James Forrest

29 August 2018

Deloitte.

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 disclosed in schedules 1 to 4, 5a to 5g, 6a and 6b, 7, the system average interruption duration index ('SAIDI') and system average interruption frequency index ('SAIFI') information disclosed in Schedule 10 and the explanatory notes in boxes 1 to 12 in Schedule 14 ('the Disclosure Information') for the disclosure year ended 31 March 2018, have been prepared, in all material respects, in accordance with the Electricity Distribution Information Disclosure Determination 2012 (the 'Determination').

Directors' responsibility for the Disclosure Information

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

Our responsibility for the Disclosure Information

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

Basis of opinion

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

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

We have performed procedures to obtain evidence about the amounts and disclosures in the Disclosure Information. The procedures selected depend on our judgement, including the assessment of the risks of material misstatement of the Disclosure Information, whether due to fraud or error or non-compliance with the Determination. In making those risk assessments, we considered internal control relevant to the company's preparation of the Disclosure 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.

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 Determination. We disclaim any assumption of responsibility for any reliance on this report to any person other than the directors of the company or the Commerce Commission, or for any other purpose than that for which it was prepared.

Scope and inherent limitations

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

Deloitte.

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

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

Independence and quality control

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

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

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

We also complied with the independence requirements specified in the Determination.

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

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; and

- the Disclosure Information has been prepared, in all material respects, in accordance with the Determination.

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

Michael Wilkes
For Deloitte Limited
On behalf of the Auditor-General
Christchurch, New Zealand
29 August 2018