

MEMBERS OF THE
Electricity Supply Commission.

DR. HENDRIK JOHANNES VAN DER BIJL (Chairman).

ALBERT MICHAEL JACOBS.

ROBERT BURNS WATERSTON.

WILLIAM PLOWMAN MOYESE HENDERSON.

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OUTPUT AND SALES.

After more than three years of war, with all its attendant difficulties, the Commission's various Undertakings continued to show increases in the aggregate of both output and sales of electricity, despite diminished consumption due to blackout regulations, curtailment of street lighting, the general scarcity of domestic electrical appliances, and the restriction of new supplies as far as possible to essential services.

The total number of units generated at all stations was 4,474,649,254, which surpassed the previous year's total by 100,357,700, or 2.29 per cent. as compared with an increase of 4.75 per cent. in 1941.

Sales of electricity generated in the Commission's own power stations and purchased from outside sources for supply to the Commission's consumers during 1942 increased by 66,824,367 units to establish a new record of 4,320,848,418 units. This represents

an increase of 1·57 per cent. over the sales for the previous year. It is noteworthy, however, that the annual rate of increase in sales has steadily declined since the outbreak of war, as follows:—

Year.						Percentage increase over previous year.
1939	...	...	...	...	...	19·70
1940	...	...	...	...	...	13·89
1941	...	...	...	...	...	4·52
1942	...	...	...	...	...	1·57

Sales to the various classes of consumers were as follows:—

Class of Supply.				1942.	Percentage increase/decrease over 1941.
Bulk Supplies:					
Mining, etc.	...	...	...	3,324,890,978	+ 1·67
Municipal	...	...	...	319,826,402	+ 2·41
Direct Supplies for:					
Traction	...	...	...	423,833,737	+ 1·46
Mining	...	...	...	51,638,625	+ 4·51
Industrial	...	...	...	179,173,014	- 3·01
Domestic and Street Lighting	...	...	...	21,485,662	+ 10·41
				4,320,848,418	+ 1·57

FINANCIAL.

The Commission's loan capital at the date of the balance sheet remained unchanged at the previous year's total of £21,750,000.

The amount in the Reserve Fund at 31st December, 1942, stood at £1,923,237, and the Redemption Fund at that date amounted to £4,110,640, which exceeded the amount required for the redemption of the loans over the periods fixed by the Commission, as referred to in the Auditors' Report. This excess includes the proceeds from sales of assets and profits on realisation of investments. Moreover, yields on securities purchased since June, 1941, for Redemption Fund investments were lower than the rate of $3\frac{1}{2}$ per cent. stipulated in the Act on which the valuation of the Redemption Fund must be based, and in order to provide for this deficiency the excess has been retained in the Redemption Fund.

The book value of securities, representing investments in Government, Municipal, Rand Water Board, Electricity Supply Commission stocks, and First Mortgages on Freehold Properties, held by the Commission on behalf of the various funds at 31st December, 1942, was £6,327,796, the nominal value being £6,362,725. The market value of these investments at that date was £6,731,265.

Expenditure on Capital Account during the year amounted to £1,477,290, which brought the total capital expenditure at 31st December, 1942, to £21,881,324. The expenditure on Capital Account will amount to approximately £24,400,000 on completion of all the works to which the Commission is at present committed.

Revenue, production costs and other important figures relating to the operation of the Commission's Undertakings during the year 1942, with the comparative figures for 1941, are as follows:—

	1942.	1941.	Difference.
Total Revenue	£3,138,147	£3,008,674	+ 4.30%
Total Production Costs (including interest, redemption and reserve fund charges)	£3,134,331	£3,004,520	+ 4.32%
Excess of Revenue over Production Costs	£3,816	£4,154	- £338
Average price per unit sold	0.1697d.	0.1651d.	+ 2.78%
Average revenue per unit sold (including Sundry Revenue)	0.1743d.	0.1697d.	+ 2.69%
Average cost per unit sold	0.1741d.	0.1695d.	+ 2.71%
Total cost of coal consumed, including railage	£898,819	£831,652	+ 8.08%
Railage on coal consumed	£283,398	£252,692	+ 12.15%
Coal consumed (in tons of 2,000 lbs.) ...	3,586,919	3,397,836	+ 5.56%

The application of the Factories, Machinery and Building Work Act of 1941 to certain of the Commission's Undertakings has resulted in considerably increased costs, due largely to the reduction of the ordinary hours of work from 48 to 46 per week without a corresponding reduction in pay, and the compulsory overtime payments to shift workers not only for the extra two hours per week but also for Sunday shifts at overtime rates instead of ordinary rates.

Items of additional expenditure which arose as a direct result of the war and appreciably affected the Commission's costs were: Overtime payments to workshop employees who were required to work a minimum of 54 hours per week in terms of the regulations issued by the Controller of Industrial Man Power; cost of living allowances to European and native employees; and War Damage Insurance premiums in respect of certain of the Commission's Power Stations.

The yardstick by which the financial success of the Commission's operations must be measured is the statutory injunction that its Undertakings "shall, as far as practicable, be carried on neither at a profit nor at a loss," or, in other words, "at cost," and the costs which may be covered by the prices charged by the Commission are clearly defined in the Act. The working results for the year, showing a net surplus of only £3,816 on a total revenue of more than £3,000,000, must therefore be regarded as highly satisfactory.

Electricity Supply Commission.

Escom House,
Rissik Street,
Johannesburg,

1st June, 1943.

To the Honourable
The Minister of Commerce and Industries,
Pretoria.

SIR,

In conformity with the provisions of Section 14 of the Electricity Act, No. 42 of 1922, the Commission has the honour to present its Twentieth Annual Report, covering its operations for the year ended 31st December, 1942.

For the same reasons as those stated in the previous report, the activities of the Commission during the past year are reviewed very briefly in this report.

GENERAL.

Constructional work on the new Vaal Power Station, started before the outbreak of war and originally expected to be completed in 1941, has progressed very slowly, due to the delay in delivery of plant and equipment ordered from overseas manufacturers. It is hoped, however, that the station will be in partial operation towards the end of 1943.

Extensions to the Commission's power stations in Natal have also been held up at various stages pending the arrival of plant from overseas. The Congella extensions, on which work was commenced early in 1939, will be further delayed by the recent loss, through enemy action at sea, of the turbine of the 40,000-kW. turbo-alternator set ordered to replace a similar set taken over by the British Government from the manufacturers in 1940 by agreement with the Commission. An additional 25,000-kW. generator, also ordered in 1939, is expected to be in service at Colenso Power Station by the end of June, 1943.

The Commission's existing power plants, some of which have been in commercial operation for more than eighteen years, were called upon to meet very severe loading conditions during the year under review, and the high standard of efficiency maintained in spite of all the handicaps imposed by the war reflects great credit on the

staff concerned. This opportunity is taken of expressing to all employees the Commission's appreciation of their commendable co-operation throughout a difficult year.

ANNEXURES.

The Commission submits for the year 1942 with this report :—

ANNEXURE “ A.”

The Report of the Auditors.

Balance Sheet.

Schedule of Expenditure on Capital Account.

Statement showing the Investments of the Redemption Fund.

Redemption Fund Account.

Reserve Fund Account.

Revenue and Expenditure Accounts in respect of :

Natal Central Undertaking.

Witbank Undertaking.

Cape Town Undertaking.

Statement of Pooled Costs—Cape Town.

Durban Undertaking.

Sabie Undertaking.

Klip Generating Station Undertaking.

Rand Extension Undertaking.

ANNEXURE " B. "

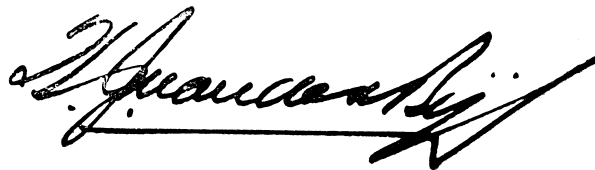
Statement showing the price or rent of land or rights or interests in or over land or other property acquired or hired by the Commission during the year 1942.

Other statements relating to power station plant and statistics, usually submitted with the Commission's reports, are being omitted during the war period.

I have the honour to be

Sir,

Your obedient servant,

A handwritten signature in black ink, appearing to read 'H. J. van der Bijl', written in a cursive style. The signature is positioned above a solid horizontal line.

H. J. VAN DER BIJL,
CHAIRMAN

ELECTRICITY SCHEMES OF LOCAL AUTHORITIES.

During the year the Commission submitted thirteen reports, in terms of Section 38 of the Electricity Act, to the Administrators of the various Provinces on electricity supply schemes of Urban Local Authorities. Twelve of the reports were on proposed extensions to existing undertakings and one was in respect of a new scheme. Up to 31st December, 1942, the reports submitted by the Commission on such schemes totalled 487, of which 169 dealt with new schemes.

In addition, 242 supplementary reports and reports on tenders had been issued by the Commission at that date.

ANNEXURE " A. "

THE REPORT OF THE AUDITORS.

Johannesburg.

21st May, 1943.

The Chairman and Members,
Electricity Supply Commission,
Johannesburg.

GENTLEMEN,

We have completed the audit of the books and accounts of the Commission for the year ended 31st December, 1942.

REDEMPTION FUND.

In the course of our audit we have investigated the position of the Redemption Fund established by the Commission in terms of the Schedule to the Electricity Act to provide for the redemption of the securities issued by the Commission.

We find that in the aggregate the amount in the Fund at 31st December, 1942, is materially in excess of the sum required to provide for the redemption of the respective loans over the maximum periods laid down in terms of issue. For reasons, which appear to us to be justifiable and sound, the Commission has, in certain cases, caused provision to be made for the redemption of the loans over a shorter period than the maximum prescribed. The amount in the Fund at 31st December, 1942, is in excess of the amount required to provide for redemption of the loans over the shorter periods so fixed by the Commission.

In the case of Loans Nos. 10 and 11, which were issued in December, 1940, and July, 1941, respectively, the Commission has not yet applied to the Minister to fix the dates from which redemption of these loans shall commence in terms of Clause 16 (2) of the Schedule to the Electricity Act, 1922. This is due to the fact that owing to war conditions portions of the plant for which these loans were raised are not yet in commercial operation. For other portions which have come into commercial operation appropriate provision has been made, in anticipation, for the redemption of the loan moneys utilised to meet such expenditure.

HEAD OFFICE ADMINISTRATION, ENGINEERING AND GENERAL EXPENSES, INCLUDING PUBLICITY.

The gross amount of this expenditure is slightly less than the corresponding figure for the previous year. It includes, inter alia,

- (1) Cost of the publicity department, including the publication of the Escom Magazine;
- (2) Cost of operating Escom House, less rents received; and
- (3) Certain expenditure in connection with the London Office.

Against the total amount has been set off or credited:—

- (1) Fees accruing to the Commission in connection with extensions to the Rand Extension Undertaking in terms of the agreement with The Victoria Falls and Transvaal Power Company, Limited.
- (2) Other amounts transferred to cost of capital works at Undertakings for services of Head Office Staff.
- (3) Fees for reporting on Power Schemes of Local Authorities.
- (4) Amounts chargeable to Revenue Accounts under other headings.

The amount remaining has been charged against the Revenue Accounts of all the Undertakings in commercial operation. In the case of the Klip, Rand Extension and Witbank (Power Station) Undertakings, the amount is determined by agreement with The Victoria Falls and Transvaal Power Company, Limited. The expenditure charged to the other Undertakings has been apportioned by the Commission. We have no reason to disagree with the allocation so made.

The amount so apportioned is again greater than in the case of the previous year. This is due to the fact that fees charged to Undertakings in respect of Capital Works in terms of agreements with The Victoria Falls and Transvaal Power Company, Limited, are materially less than they were in 1941.

WITBANK UNDERTAKING.

During the year ended 31st December, 1942, the Commission has, as formerly, collected Reserve Fund contributions in respect of the Witbank Power Station. At the end of the year these contributions were transferred to a Suspense Account pending the clarification of the terms of Section 9 (2) of the Electricity Act, 1922, which were ambiguous. During the last session of Parliament an Act was passed amending the section referred to, and, subject to the approval of the Governor-General, the amount of £31,144 6s. 4d. held in suspense will be transferred to the Reserve Fund.

KLIP UNDERTAKING.

Following previous practice, we have accepted the accounts rendered by The Victoria Falls and Transvaal Power Company, Limited, which Company, in terms of agreement with the Commission, operates the station and is the sole consumer on a cost basis. The Capital Charges made by the Commission have been verified by us. The resulting figures have been summarised in the Klip Revenue Account.

RAND EXTENSION UNDERTAKING.

In terms of agreement between The Victoria Falls and Transvaal Power Company, Limited, and the Commission, the Company is the sole user of the Undertaking under cession of the licence and operates and maintains the same at its own cost. The expenditure of the Commission in connection with the Undertaking (including Capital Charges) is recovered from the Company, and the figures relating thereto are shown in the Revenue Account of the Undertaking.

GENERAL.

As the result of our audit of the books and accounts of the Commission for the year 1942, and, subject to the foregoing remarks, in terms of Clause 13 (4) of the Electricity Act, 1922, we certify as follows:—

- (a) We have found the Accounts of the Commission to be in order.
- (b) The Accounts issued present a true and correct view of the financial position of the Commission and of its transactions and of the result of trading.
- (c) Due provision has been made for the redemption and repayment of moneys borrowed.
- (d) As formerly, the Land and Rights, Buildings and Civil Works and Machinery and Plant are set out in the Balance Sheet as on a cost basis. This expenditure will be amortised over a period not exceeding the currency of the loans by the operation of the Redemption Fund.

The value of the other assets of the Commission is correctly stated.

- (e) Sums fixed by the Commission have been set aside to the Reserve Fund under Section 9 as prescribed.
- (f) All our requirements and recommendations as Auditors have been complied with and carried out.

Yours faithfully,

B. HALSEY.

ALEX. AIKEN & CARTER.

Electricity Supply
Incorporated under the
BALANCE SHEET at

Loan Capital		£21,750,000			
Loan No. 1: Government of the Union of South Africa	£3,000,000	0	0		
Loan No. 2: Government of the Union of South Africa	5,000,000	0	0		
	8,000,000	0	0		
<i>Less</i> —Repaid during 1933 and 1934	8,000,000	0	0		
	0	0	0		
Local Registered Stocks—					
Loan No. 3: 4¼ per cent., 1953/63	500,000	0	0		
Loan No. 4: 4½ per cent., 1953	2,500,000	0	0		
Loan No. 5: 3¾ per cent., 1954/64	6,750,000	0	0		
Loan No. 6: 3½ per cent., 1959/64	2,500,000	0	0		
Loan No. 7: 3¼ per cent., 1956/66	2,000,000	0	0		
Loan No. 8: 3½ per cent., 1957/67	2,000,000	0	0		
Loan No. 9: 3¾ per cent., 1959/64	2,000,000	0	0		
Loan No. 10: 3¾ per cent., 1960/65	1,500,000	0	0		
Loan No. 11: 3¼ per cent., 1961/66	2,000,000	0	0		
	109,329	12	5		
Interest Accrued on Loan Capital					
Sundry Loans and Amounts Outstanding for Rights Acquired				138,908	12 6
Umkomaas Town Board	8,380	0	0		
Volksrust Municipality	20,619	6	5		
Rand Water Board	96,689	12	0		
Caledon Municipality	8,008	15	6		
Rawsonville Village Management Board	5,210	18	7		
	477,308	16	9		
Sundry Creditors and Credit Balances					
Pension Fund				196,998	0 10
Redemption Fund (as per Account No. 1)				4,110,639	10 11
Sinking Fund (Umkomaas Town Board Loans)				3,247	8 3
Sundry Loans Repaid				40,245	12 1
Reserve Fund (as per Account No. 2)				1,923,237	8 11
Balance on Revenue Accounts				87,473	18 8
(As per Accounts Nos. 3 to 7)					
Natal Central Undertaking	26,221	7	0		
Witbank Undertaking	42,515	6	8		
Cape Town Undertaking	5,431	10	7		
Durban Undertaking	13,129	11	11		
Sabie Undertaking	176	2	6		
	26,221	7	0		
	42,515	6	8		
	5,431	10	7		
	13,129	11	11		
	176	2	6		

NOTE.—In addition to the liabilities shown above, the Commission is committed to the extent of approximately £2,376,300 for expenditure on Capital Account and £78,550 chargeable against Reserve Fund.

£28,837,389 1 4

Johannesburg,
22nd April, 1943.

H. J. VAN DER BIJL, Chairman.
J. VAN NIEKERK, Chief Accountant.

Commission.

Electricity Act, 1922.

31st DECEMBER, 1942.

Expenditure on Capital Account					£21,881,323			
(As per Schedule attached)								
Land and Rights	£297,721	6	8					
Buildings and Civil Works	5,909,163	19	8					
Machinery and Plant	15,674,438	2	10					
	78,125	16	1					
Movable Plant and Equipment (less depreciation)								
Workshop Equipment, Instruments, Tools and Loose Plant	28,284	8	8					
Transportation Equipment	9,619	15	10					
Furniture, Fixtures and Fittings	40,221	11	7					
	266,534	5	9					
Stores and Materials								
Sundry Debtors and Debit Balances								267,251 0 8
Cash on Current Account								16,358 5 1
Investment of Pension Fund								203,451 19 0
Amount invested in Stocks and Securities of Electricity Supply Commission, Municipalities and Rand Water Board and First Mortgages on Freehold Properties	202,597	19	1					
Interest Accrued	853	19	11					
	4,138,217	12	10					
Investment of Redemption Fund								
(As per Statement attached)								
Investment of Sinking Fund								3,418 13 3
Amount invested in Stocks of Electricity Supply Commission and Municipalities	3,402	15	0					
Interest Accrued	15	18	3					
	1,982,707	19	6					
Investment of Reserve Fund								
Amount invested in Stocks and Securities of Electricity Supply Commission, the Government of the Union of South Africa and Municipalities	1,970,479	17	2					
Interest Accrued	12,228	2	4					

£28,837,389 1 4

Referred to in our Report of 21st May, 1943.

ALEX. AIKEN & CARTER, }
B. HALSEY, } Auditors.

Electricity Supply

SCHEDULE OF EXPENDITURE ON CAPITAL

Expenditure in connection with Electricity Undertakings.	Total to 31st December, 1941.	Year ended 31st December, 1942.	Total to 31st December, 1942.
NATAL CENTRAL UNDERTAKING:			
Land and Rights	£24,495 11 0	£194 0 4	£24,689 11 4
Buildings and Civil Works	794,592 9 6	4,544 8 5	799,136 17 11
Machinery and Plant	3,487,134 5 1	121,573 6 0	3,608,707 11 1
	£4,306,222 5 7	£126,311 14 9	£4,432,534 0 4
WITBANK UNDERTAKING:			
Land and Rights	£10,305 16 2	—	£10,305 16 2
Buildings and Civil Works	616,428 0 6	£14,607 2 2	631,035 2 8
Machinery and Plant	1,973,598 10 9	15,579 19 2	1,989,178 9 11
	£2,600,332 7 5	£30,187 1 4	£2,630,519 8 9
CAPE TOWN UNDERTAKING:			
Land and Rights	£27,140 8 0	£680 9 10	£27,820 17 10
Buildings and Civil Works	964,032 16 8	4,841 6 11	968,874 3 7
Machinery and Plant	1,851,044 18 8	75,507 17 7	1,926,552 16 3
	£2,842,218 3 4	£81,029 14 4	£2,923,247 17 8
DURBAN UNDERTAKING:			
Land and Rights	£31,175 18 4	Cr. £32 11 10	£31,143 6 6
Buildings and Civil Works	588,539 3 0	189,118 5 2	777,657 8 2
Machinery and Plant	1,219,700 10 2	217,630 6 8	1,437,330 16 10
	£1,839,415 11 6	£406,716 0 0	£2,246,131 11 6
SABIE UNDERTAKING:			
Land and Rights	£510 0 0	—	£510 0 0
Buildings and Civil Works	60,464 18 5	—	60,464 18 5
Machinery and Plant	35,169 14 10	—	35,169 14 10
	£96,144 13 3	—	£96,144 13 3

Johannesburg,
22nd April, 1943.

Commission.

ACCOUNT TO 31st DECEMBER, 1942.

Expenditure in connection with Electricity Undertakings.	Total to 31st December, 1941.	Year ended 31st December, 1942.	Total to 31st December, 1942.
KLIP GENERATING STATION UNDERTAKING:			
Land and Rights	£127,993 12 9	Cr. £18 12 9	£127,975 0 0
Buildings and Civil Works	1,628,844 3 4	Cr. 54,728 5 6	1,574,115 17 10
Machinery and Plant	4,690,495 18 10	115,820 3 9	4,806,316 2 7
	£6,447,333 14 11	£61,073 5 6	£6,508,407 0 5
RAND EXTENSION UNDERTAKING:			
Land and Rights	£10,248 17 8	£4 2 0	£10,252 19 8
Buildings and Civil Works	12,906 7 11	147 5 4	13,053 13 3
Machinery and Plant	783,076 15 1	27,718 6 6	810,795 1 7
	£806,232 0 8	£27,869 13 10	£834,101 14 6
VAAL GENERATING STATION UNDERTAKING:			
Land and Rights	£3,723 9 2	£1,715 3 0	£5,438 12 2
Buildings and Civil Works	666,199 1 11	86,731 13 3	752,930 15 2
Machinery and Plant	404,732 8 3	655,655 1 6	1,060,387 9 9
	£1,074,654 19 4	£744,101 17 9	£1,818,756 17 1
ESCOM HOUSE:			
Land	£59,585 3 0	—	£59,585 3 0
Building and Equipment	331,895 2 8	—	331,895 2 8
	£391,480 5 8	—	£391,480 5 8
SUMMARY:			
Land and Rights	£295,178 16 1	£2,542 10 7	£297,721 6 8
Buildings and Civil Works	5,663,902 3 11	245,261 15 9	5,909,163 19 8
Machinery and Plant	14,444,953 1 8	1,229,485 1 2	15,674,438 2 10
	£20,404,034 1 8	£1,477,289 7 6	£21,881,323 9 2

J. VAN NIEKERK, Chief Accountant.

Electricity

Statement showing details of

	Nominal Amount.	Totals.	Loan No. 3. £500,000 4½% Local Registered Stock, 1953/63.	Loan No. 4. £2,500,000 4½% Local Registered Stock, 1953.
Local Registered Stocks.				
Electricity Supply Commission:				
4½ per cent., 1953/63	£104,600 0 0	£104,600 0 0	£39,150 0 0	—
4½ per cent., 1953	237,293 0 0	237,293 0 0	—	£232,793 0 0
3¼ per cent., 1954/64	763,113 0 0	762,947 3 10	10,000 0 0	—
3½ per cent., 1959/64	132,710 0 0	132,710 0 0	—	—
3¼ per cent., 1956/66	333,100 0 0	321,954 4 4	16,490 0 0	92,767 3 9
3½ per cent., 1957/67	309,600 0 0	300,760 7 10	24,287 10 0	85,565 5 0
3¼ per cent., 1959/64	515,900 0 0	504,843 17 11	19,482 19 9	90,028 0 2
3¼ per cent., 1960/65	439,200 0 0	430,431 6 11	17,640 0 0	60,270 0 0
3¼ per cent., 1961/66	496,000 0 0	486,080 0 0	23,520 0 0	96,040 0 0
The Government of the Union of South Africa:				
3¼ per cent., 1948/58	2,725 0 0	2,725 0 0	—	—
3¼ per cent., 1950	21,000 0 0	21,000 0 0	—	17,000 0 0
4½ per cent., 1953	356,265 0 0	356,265 0 0	—	356,265 0 0
3¼ per cent., 1953	5,000 0 0	5,000 0 0	—	—
3½ per cent., 1955/65	2,300 0 0	2,300 0 0	—	—
3 per cent., 1956/61	40,000 0 0	40,000 0 0	—	10,000 0 0
Municipal:				
Johannesburg:				
3¼ per cent., 1960/65	20,000 0 0	20,000 0 0	—	8,000 0 0
3¼ per cent., 1962/67	125,000 0 0	122,500 0 0	18,620 0 0	42,140 0 0
Cape Town:				
3¼ per cent., 1962/67	150,000 0 0	147,000 0 0	—	—
Durban:				
3¼ per cent., 1962/72	115,500 0 0	115,211 5 0	—	115,211 5 0
	£4,169,306 0 0	£4,113,621 5 10	£169,190 9 9	£1,206,079 13 11
Interest Accrued	—	24,596 7 0	1,011 15 10	5,573 16 3
	£4,169,306 0 0	£4,138,217 12 10	£170,202 5 7	£1,211,653 10 2

Johannesburg,
22nd April, 1913.

Supply Commission.

Investments of the Redemption Fund at 31st December, 1942.

Loan No. 5. £6,750,000 3¼% Local Registered Stock, 1954/64.	Loan No. 6. £2,500,000 3¼% Local Registered Stock, 1959/64.	Loan No. 7. £2,000,000 3¼% Local Registered Stock, 1956/66.	Loan No. 8. £2,000,000 3¼% Local Registered Stock, 1957/67.	Loan No. 9. £2,000,000 3¼% Local Registered Stock, 1959/64.	Loan No. 10. £1,500,000 3¼% Local Registered Stock, 1960/65.	Loan No. 11. £2,000,000 3¼% Local Registered Stock, 1961/66.	Loan No. 12. (Not yet raised.)
£65,450 0 0	—	—	—	—	—	—	—
—	£4,500 0 0	—	—	—	—	—	—
678,513 0 0	53,721 15 9	£17,000 0 0	£3,518 13 3	—	£193 14 10	—	—
35,000 0 0	82,410 0 0	5,600 0 0	5,400 0 0	£4,300 0 0	—	—	—
143,560 0 0	19,400 0 0	49,737 0 7	—	—	—	—	—
77,628 10 0	60,043 0 0	21,922 0 0	30,241 12 10	1,072 10 0	—	—	—
180,286 8 3	62,540 7 8	55,274 6 4	45,785 0 4	51,446 15 5	—	—	—
140,630 0 0	72,030 0 0	48,020 0 0	52,430 0 0	33,810 0 0	5,601 6 11	—	—
136,220 0 0	80,360 0 0	45,080 0 0	56,840 0 0	30,380 0 0	16,660 0 0	£980 0 0	—
2,725 0 0	—	—	—	—	—	—	—
4,000 0 0	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
5,000 0 0	—	—	—	—	—	—	—
2,300 0 0	—	—	—	—	—	—	—
10,000 0 0	5,000 0 0	5,000 0 0	5,000 0 0	5,000 0 0	—	—	—
12,000 0 0	—	—	—	—	—	—	—
16,660 0 0	29,400 0 0	15,680 0 0	—	—	—	—	—
—	—	28,910 0 0	36,750 0 0	48,020 0 0	24,990 0 0	6,860 0 0	£1,470 0 0
—	—	—	—	—	—	—	—
£1,509,972 18 3	£469,105 3 5	£292,223 6 11	£235,965 6 5	£174,029 5 5	£47,445 1 9	£7,840 0 0	£1,470 0 0
9,769 12 7	2,604 19 0	2,136 15 10	1,551 6 8	1,411 7 5	436 2 5	84 5 1	16 5 11
£1,519,742 10 10	£472,010 2 5	£294,360 2 9	£237,516 13 1	£175,440 12 10	£47,881 4 2	£7,924 5 1	£1,486 5 11

J. VAN NIEKERK, Chief Accountant.

Electricity Supply Commission.

Redemption Fund Account for the Year ended 31st December, 1942.

Cr.	Loan No. 3. £500,000 4½% Local Registered Stock, 1953/63.	Loan No. 4. £2,500,000 4½% Local Registered Stock, 1953.	Loan No. 5. £6,750,000 3¼% Local Registered Stock, 1954/64.	Loan No. 6. £2,500,000 3¼% Local Registered Stock, 1959/64.	Loan No. 7. £2,000,000 3¼% Local Registered Stock, 1956/66.	Loan No. 8. £2,000,000 3¼% Local Registered Stock, 1957/67.	Loan No. 9. £2,000,000 3¼% Local Registered Stock, 1959/64.	Loan No. 10. £1,500,000 3¼% Local Registered Stock, 1960/65.	Loan No. 11. £2,000,000 3¼% Local Registered Stock, 1961/66.	Loan No. 12. (Not yet raised.)	Totals.
By Balance at 31st December, 1941, brought forward											
Natal Central Undertaking	£513 10 4	£26,839 6 6	£621,450 15 5	—	£18,784 15 6	£5,050 15 2	£3,993 0 1	£2,017 13 7	£78 10 10	—	£678,728 7 5
Witbank Undertaking	909 4 6	681,629 5 10	260,263 4 7	—	21,224 15 5	8,189 18 3	1,961 16 2	1,825 18 0	12 15 3	—	976,016 18 0
Cape Town Undertaking	103,315 5 11	52,254 12 8	314,647 0 0	—	5,101 11 1	4,434 12 5	18,059 7 7	3,214 6 4	113 10 5	—	501,140 6 5
Durban Undertaking	44,332 4 11	275,520 18 1	95,221 19 9	—	1,748 7 11	26,593 8 3	4,531 6 11	3,229 10 0	28 9 8	—	451,206 5 6
Sabie Undertaking	—	46,466 12 2	15,204 1 4	—	—	—	—	—	—	—	61,670 13 6
Klip Generating Station Undertaking	—	—	—	£356,521 10 7	151,124 14 4	108,398 13 9	78,199 2 5	9,748 11 10	—	—	703,992 12 11
Rand Extension Undertaking	—	—	—	35,227 19 9	7,742 14 11	25,250 0 3	11,956 1 3	181 4 2	186 17 7	—	80,544 17 11
Head Office	—	2,107 12 8	14,765 17 5	—	30,234 3 7	—	225 5 3	111 9 8	—	—	47,444 8 7
	£149,070 5 8	£1,084,818 7 11	£1,321,552 18 6	£391,749 10 4	£235,961 2 9	£177,917 8 1	£118,925 19 8	£20,328 13 7	£420 3 9	—	£3,500,744 10 3
„ Amounts Contributed during the Year out of Revenue—											
Natal Central Undertaking	£52 4 11	£3,398 2 10	£75,057 12 0	—	£4,198 4 8	£1,459 5 1	£1,716 16 4	£1,904 18 9	£710 5 0	—	£88,497 9 7
Witbank Undertaking	86 14 9	37,689 1 9	17,857 2 9	—	4,622 12 4	2,595 16 6	1,099 11 7	1,343 4 6	120 7 8	£9 14 10	65,424 6 8
Cape Town Undertaking	11,195 11 2	6,472 2 9	37,121 9 11	—	1,118 4 8	1,385 10 5	8,879 16 0	2,763 16 5	1,499 8 8	—	70,436 0 0
Durban Undertaking	4,264 12 0	19,064 19 9	7,805 15 10	—	441 10 8	7,871 11 3	2,279 4 8	3,148 3 6	259 16 1	—	45,135 13 9
Sabie Undertaking	—	2,610 16 8	870 5 7	—	—	—	—	—	—	—	3,481 2 3
Klip Generating Station Undertaking	—	—	—	£58,636 13 3	30,111 17 7	30,899 13 8	31,845 2 6	7,949 12 11	126 12 3	—	159,569 12 2
Rand Extension Undertaking	—	—	—	5,548 6 9	1,713 5 3	7,233 19 2	4,777 6 11	181 17 9	447 7 0	£85 14 10	20,767 17 8
Head Office	—	159 6 11	2,759 19 9	—	5,888 5 2	—	97 2 5	81 0 1	11 2 2	—	8,996 16 6
	£15,599 2 10	£69,394 10 8	£141,472 5 10	£64,185 0 0	£48,094 0 4	£51,445 16 1	£50,695 0 5	£17,372 13 11	£3,174 18 10	£875 9 8	£462,308 18 7
„ Net Proceeds of Sales of Fixed Property—											
Natal Central Undertaking	—	£53 11 7	£32 12 6	—	—	—	—	—	—	—	£86 4 1
Witbank Undertaking	—	121 5 4	—	—	—	—	—	—	—	—	121 5 4
Cape Town Undertaking	—	—	—	—	—	—	—	£8,320 0 0	—	—	8,320 0 0
Durban Undertaking	—	—	2,000 0 0	—	—	—	—	—	—	—	2,000 0 0
Sabie Undertaking	—	—	24 10 4	—	—	—	—	—	—	—	24 10 4
Klip Generating Station Undertaking	—	—	—	£10 0 0	—	—	—	—	—	—	10 0 0
Rand Extension Undertaking	—	—	—	—	—	—	—	—	£350 0 0	—	350 0 0
	—	£174 16 11	£2,057 2 10	£10 0 0	—	—	—	£8,320 0 0	£350 0 0	—	£10,911 19 9
„ Profit on Sales of Investments	—	£3,464 14 2	£701 14 0	—	—	—	—	—	—	—	£4,166 8 2
„ Net Interest Earned on Investments, after Deducting Amounts Appropriated in Reduction of Premiums on Investments Purchased—											
Natal Central Undertaking	£18 4 4	£1,153 16 2	£21,000 5 3	—	£733 16 5	£202 10 2	£167 3 0	£95 14 0	£5 2 0	—	£23,376 11 4
Witbank Undertaking	32 5 4	28,478 1 3	8,613 16 6	—	£27 7 2	331 12 5	83 0 4	80 10 11	1 17 6	2 0	38,449 3 5
Cape Town Undertaking	3,689 19 4	2,243 17 5	10,620 19 9	—	198 19 1	179 4 10	772 2 8	150 9 2	26 1 7	—	17,881 13 10
Durban Undertaking	1,575 11 8	11,575 17 7	3,168 10 2	—	69 2 3	1,068 17 8	194 12 7	156 14 6	3 9 10	—	17,812 16 3
Klip Generating Station Undertaking	—	—	—	£13,667 14 0	5,850 13 1	4,358 7 11	3,222 16 5	471 19 3	1 10 3	—	27,573 0 11
Rand Extension Undertaking	—	—	—	1,346 16 11	302 5 0	1,011 5 10	496 4 8	8 17 9	12 15 3	£9 8 6	3,187 13 11
Head Office	—	88 16 9	511 19 7	—	1,168 4 7	—	9 8 3	5 1 0	3 5	—	1,783 13 7
	£5,316 0 8	£15,482 11 7	£44,416 9 9	£15,014 10 11	£9,150 7 7	£7,151 18 10	£4,915 17 11	£969 6 7	£50 19 10	£9 10 6	£132,507 14 2
Grand Total	£169,985 9 2	£1,203,335 1 3	£1,510,200 10 11	£470,959 1 3	£293,205 10 8	£236,515 3 0	£174,566 18 0	£46,990 14 1	£3,996 2 5	£885 0 2	£4,110,639 10 11
Dr.											
To Balance as per Balance Sheet—											
Natal Central Undertaking	£583 19 7	£31,532 15 0	£717,873 0 6	—	£23,716 16 7	£6,712 10 5	£5,876 19 5	£4,018 6 4	£793 17 10	—	£791,108 5 8
Witbank Undertaking	1,028 4 7	750,087 1 5	286,870 5 6	—	26,674 14 11	11,117 7 2	3,144 18 1	3,249 13 5	135 0 5	£9 16 10	1,082,317 2 4
Cape Town Undertaking	118,200 16 5	61,141 11 5	362,557 5 6	—	6,418 14 10	5,999 7 8	27,711 6 3	14,448 11 11	1,639 0 8	—	598,116 14 8
Durban Undertaking	50,172 8 7	307,043 11 8	108,246 6 11	—	2,259 0 10	35,533 17 2	7,005 4 2	6,534 8 0	291 15 7	—	517,086 12 11
Sabie Undertaking	—	51,167 10 1	16,607 14 0	—	—	—	—	—	—	—	67,775 4 1
Klip Generating Station Undertaking	—	—	—	£428,835 17 10	187,087 5 0	143,656 15 4	113,267 1 4	18,170 4 0	128 2 6	—	891,145 6 0
Rand Extension Undertaking	—	—	—	42,123 3 5	9,758 5 2	33,495 5 3	17,229 12 10	371 19 8	996 19 10	£75 3 4	104,850 9 6
Head Office	—	2,362 11 8	18,045 18 6	—	37,290 13 4	—	331 15 11	197 10 9	11 5 7	—	58,239 15 9
	£169,985 9 2	£1,203,335 1 3	£1,510,200 10 11	£470,959 1 3	£293,205 10 8	£236,515 3 0	£174,566 18 0	£46,990 14 1	£3,996 2 5	£885 0 2	£4,110,639 10 11

J. VAN NIEKERK, Chief Accountant.

We hereby certify that we are satisfied, both as to the correctness of the Accounts and Books of the Redemption Fund and as to the Maintenance of the Fund at the amount required by the Schedule to the Electricity Act, 1922, subject to the remarks contained in our report dated 21st May, 1943.

Johannesburg,
22nd April, 1943.

ALEX. AIKEN & CARTER,
B. HALSEY, } Auditors.

Electricity Supply

Dr.	Reserve Fund Account for the				
To Expenditure during the Year on Replacements and Betterment				£45,081 17 9	
Natal Central Undertaking			£21,757 13 10		
Witbank Undertaking			2,610 9 10		
Cape Town Undertaking			5,109 13 5		
Durban Undertaking			8,269 13 9		
Klip Generating Station Undertaking			2,832 8 1		
Rand Extension Undertaking			4,501 18 10		
„ Balance as per Balance Sheet				1,923,237 8 11	
Natal Central Undertaking			619,556 15 5		
Witbank Undertaking			348,570 5 8		
Cape Town Undertaking			345,046 7 1		
Durban Undertaking			222,513 16 9		
Sabie Undertaking			14,116 12 3		
Klip Generating Station Undertaking			338,004 13 4		
Rand Extension Undertaking			35,428 18 5		
				£1,968,319 6 8	

Johannesburg,
22nd April, 1943.

Commission.

Year ended 31st December, 1942.					Cr.
By Balance at 31st December, 1941, brought forward ...				£1,733,421 0 7	
Natal Central Undertaking			£569,241 19 0		
Witbank Undertaking			334,206 11 3		
Cape Town Undertaking			317,804 14 4		
Durban Undertaking			202,070 7 1		
Sabie Undertaking			12,970 10 5		
Klip Generating Station Undertaking			266,642 4 6		
Rand Extension Undertaking			30,484 14 0		
„ Amounts set aside during the Year as per Revenue Accounts				160,997 11 10	
Natal Central Undertaking			48,000 0 0		
Witbank Undertaking			3,156 6 3		
Cape Town Undertaking			19,000 0 0		
Durban Undertaking			20,000 0 0		
Sabie Undertaking			600 0 0		
Klip Generating Station Undertaking			62,152 4 4		
Rand Extension Undertaking			8,089 1 3		
„ Profit on Sales of Investments				2,722 11 11	
„ Interest Earned on Investments				71,178 2 4	
Interest earned			71,863 16 10		
Less—Premium on Investments written off			685 14 6		
				£1,968,319 6 8	

J. VAN NIEKERK, Chief Accountant.

Electricity Supply

NATAL CENTRAL

Dr. Revenue Account for the Year

To Operation—		Generation of Electricity.		
Fuel	£137,630 12 6
Water, Oil, Waste and Stores	1,820 18 1
Salaries and Wages	28,017 19 6
Other Expenses	16 16 8
„ Maintenance—				
Stores	8,364 19 8
Salaries and Wages	15,998 15 11
Other Expenses	1,093 14 4
„ Electricity Purchased	£192,943 16 8
„ Electricity Interchanged	301 0 8
				196 0 3
„ Operation and Maintenance—		Distribution of Electricity.		
Stores	5,348 1 4
Salaries and Wages	27,853 0 11
Other Expenses	6,401 10 3
				39,602 12 6
„ General Expenses.				
„ Local Administration and Technical Management	11,697 10 10
„ General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, Payment to Durban Undertaking under Agreement, etc.)	18,512 18 11
„ War Damage Insurance Premiums	4,174 2 0
„ Head Office Administration and General Expenses, including Publicity	11,516 13 3
„ Engineering Expenses	5,886 15 2
„ Deferred Payment Scheme, including Propaganda and Showroom Expenses	51,788 0 2
				442 0 2
„ Interest	285,273 10 5
„ Redemption Fund	161,858 6 7
„ Instalments paid on Volksrust Municipality Loan	88,497 9 7
„ Amount set aside to Reserve Fund	1,375 13 6
				48,000 0 0
				£585,005 0 1
To Balance brought down	£2,157 1 2
„ Balance as per Balance Sheet	26,221 7 0
				£28,378 8 2

J. VAN NIEKERK, Chief Accountant.

Johannesburg,
22nd April, 1943.

Commission.

UNDERTAKING.

ended 31st December, 1942.

Cr.

By Sales of Electricity—		
Traction Supplies	...	£419,176 19 1
Bulk Supplies	...	96,071 3 9
Industrial Supplies	...	37,156 11 0
Domestic and Lighting Supplies	...	26,032 5 11
Electricity Interchanged	...	23 3 10
		£578,460 3 7
„ Deferred Payment Scheme	...	76 4 9
„ Other Revenue	...	4,311 10 7
„ Balance carried down	...	2,157 1 2
		£585,005 0 1
By Balance at 31st December, 1941, brought forward	...	£28,378 8 2
		£28,378 8 2

Referred to in our Report of 21st May, 1943.

ALEX. AIKEN & CARTER, }
B. HALSEY, } Auditors.

Electricity Supply
WITBANK

Revenue Account for the Year

Dr.		
	Generation of Electricity.	
To Operation—		
Fuel	£72,297 2 8	
Water, Oil, Waste and Stores	7,196 10 4	
Salaries and Wages	34,303 6 3	
Other Expenses	1,113 4 2	
„ Maintenance—		
Stores	12,191 4 7	
Salaries and Wages	18,893 7 7	
Other Expenses	9,406 5 11	
„ Electricity Purchased	£155,401 1 6	
	155,258 10 11	
	Distribution of Electricity.	
„ Operation and Maintenance—		
Stores	1,637 19 7	
Salaries and Wages	5,314 5 10	
Other Expenses	583 16 2	
	7,536 1 7	
	General Expenses.	
„ Local Administration and Technical Management	12,487 12 10	
„ General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.)	13,759 11 10	
„ Administration, Engineering and General Expenses of Operating Party (The Victoria Falls & Transvaal Power Company, Limited)	7,000 0 0	
„ Head Office Administration and General Expenses, including Publicity	7,765 10 1	
„ Engineering Expenses	3,969 7 0	
	44,982 1 9	
„ Deferred Payment Scheme, including Propaganda and Showroom Expenses	145 15 8	
	363,323 11 5	
„ Interest	111,160 19 5	
„ Redemption Fund	65,424 6 8	
„ Amount set aside to Reserve Fund	3,156 6 3	
„ Reserve Fund Suspense	31,144 6 4	
„ Balance carried down	8,890 0 0	
	£583,099 10 1	
To Balance as per Balance Sheet	£42,515 6 8	
	£42,515 6 8	

J. VAN NIEKERK, Chief Accountant.

Johannesburg,
22nd April, 1943

Commission.
UNDERTAKING.

ended 31st December, 1942.

Cr.

By Sales of Electricity—		
Traction Supplies	£180,563 4 3	
Bulk Supplies	241,040 9 11	
Industrial Supplies	143,800 10 5	
Domestic and Lighting Supplies	8,940 5 3	
	£574,344 9 10	
„ Deferred Payment Scheme	327 2 5	
„ Other Revenue	8,427 17 10	
	£583,099 10 1	
By Balance at 31st December, 1941, brought forward	£33,625 6 8	
„ Balance brought down	8,890 0 0	
	£42,515 6 8	

Referred to in our Report of 21st May, 1943.

ALEX. AIKEN & CARTER, }
B. HALSEY, } Auditors.

Electricity Supply CAPE TOWN

Dr.	Revenue Account for the Year			Cr.
Generation of Electricity.				
To Proportion of Pooled Costs	£249,247	15	2	
(As per attached Statement)				
„ Other Operation and Maintenance Costs	8,528	17	4	
	£257,776	12	6	
Distribution of Electricity.				
„ Operation and Maintenance—				
Stores	2,415	14	10	
Salaries and Wages	23,032	1	10	
Other Expenses	4,903	13	2	
	30,351	9	10	
General Expenses.				
„ Local Administration and Technical Management ...	13,662	13	11	
„ General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.)	13,641	13	0	
„ War Damage Insurance Premiums	4,062	10	0	
„ Head Office Administration and General Expenses, including Publicity	7,357	17	4	
„ Engineering Expenses	3,760	19	9	
	42,485	14	0	
Less—Charged to Pooled Costs	5,973	3	11	
	36,512	10	1	
„ Deferred Payment Scheme, including Propaganda and Showroom Expenses	1,623	14	5	
	326,264	6	10	
„ Interest	113,848	0	5	
„ Redemption Fund	70,436	0	0	
„ Instalments on Caledon Municipality and Rawsonville Village Management Board Loans	743	15	7	
„ Amount set aside to Reserve Fund	19,000	0	0	
	204,027	16	0	
Less—Charged to Pooled Costs	69,117	1	6	
	134,910	14	6	
	£461,175	1	4	
To Balance brought down	£727	8	8	
„ Balance as per Balance Sheet	5,431	10	7	
	£6,158	19	3	

J. VAN NIEKERK, Chief Accountant.

Johannesburg,
22nd April, 1943.

Account No. 5.

Commission. UNDERTAKING. ended 31st December, 1942.

By Sales of Electricity—						
Traction Supplies	£177,321	6	9			
Bulk Supplies	49,321	18	1			
Industrial Supplies	144,791	13	0			
Domestic and Lighting Supplies	85,375	11	5			
	£456,810	9	3			
„ Deferred Payment Scheme				2,386	8	5
„ Other Revenue	2,114	11	6			
Less—Credited to Pooled Costs	863	16	6			
	1,250	15	0			
„ Balance carried down				727	8	8
				£461,175	1	4
By Balance at 31st December, 1941, brought forward				£6,158	19	3
				£6,158	19	3

Referred to in our Report of 21st May, 1943.

ALEX. AIKEN & CARTER, }
B. HALSEY, } Auditors.

Electricity Supply Commission

Dr. Statement of Pooled Costs for the Year ended

Pooled Generation of Electricity.						
To Operation and Maintenance—						
Fuel	...	...	...	...	...	£379,321 19 5
Water, Oil, Waste and Stores	...	...	...	...	...	13,709 7 2
Salaries, Wages and Other Expenses	...	...	...	...	...	83,483 6 6
						£476,514 13 1
„ General Expenses (including Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.)	...	...	...	...	...	15,296 2 1
„ War Damage Insurance Premiums	...	...	...	...	...	6,392 11 0
„ Interest	...	...	...	...	...	111,093 13 11
„ Redemption Fund	...	...	...	...	...	107,910 8 8
„ Reserve Fund	...	...	...	...	...	16,239 0 8
						£733,446 9 5

Cape Town,
22nd April, 1943.

and City of Cape Town.

31st December, 1942, and Allocation thereof.

Cr.

By Allocation of Pooled Costs in terms of Agreement—						
Electricity Supply Commission	...	...	...	...	...	£249,247 15 2
City of Cape Town	...	...	...	...	...	481,861 6 7
						£731,109 1 9
„ Sundry Revenue	...	...	...	...	...	2,337 7 8
						£733,446 9 5

H. A. EASTMAN,
Acting Manager of the Pooled Stations.

Electricity Supply
DURBAN

Dr.	Revenue Account for the Year				
	Generation of Electricity.				
To Operation—					
Fuel	£155,972	12	11		
Water, Oil, Waste and Stores	1,600	19	4		
Salaries and Wages	21,627	7	6		
Other Expenses	1,962	7	8		
„ Maintenance—					
Stores	8,400	5	9		
Salaries and Wages	23,520	14	0		
Other Expenses	673	3	2		
				£213,757	10 4
„ Operation and Maintenance: Alice Street Power Station				4,612	7 9
„ Electricity Purchased				8,150	10 6
„ Electricity Interchanged				23	3 10
	Distribution of Electricity.				
„ Operation and Maintenance—					
Stores	877	9	0		
Salaries and Wages	4,519	1	8		
Other Expenses	1,318	2	8		
				6,714	13 4
	General Expenses.				
„ Local Administration and Technical Management ...	6,491	10	8		
„ General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.)	11,071	5	3		
„ War Damage Insurance Premiums	4,166	3	1		
„ Investigations and Development Expenses	31	19	2		
„ Head Office Administration and General Expenses, including Publicity	7,037	19	3		
„ Engineering Expenses	3,597	9	3		
				32,396	6 8
„ Deferred Payment Scheme, including Propaganda and Showroom Expenses				178	15 4
				265,833	7 9
„ Interest				69,323	6 2
„ Redemption Fund				45,135	13 9
„ Sinking Fund				207	12 0
„ Amount set aside to Reserve Fund				20,000	0 0
				£400,499	19 8
				£400,499	19 8
To Balance brought down	£2,310	1	9		
„ Balance as per Balance Sheet	13,129	11	11		
				£15,439	13 8
				£15,439	13 8

J. VAN NIEKERK, Chief Accountant.

Johannesburg,
22nd April, 1943.

Commission.
UNDERTAKING.

ended 31st December, 1942.

Cr.

By Sales of Electricity—					
Bulk Supplies	£347,954	0	4		
Industrial Supplies	27,422	8	4		
Domestic and Lighting Supplies	19,602	12	9		
Electricity Interchanged	196	0	3		
				£395,175	1 8
„ Deferred Payment Scheme				112	17 3
„ Other Revenue				2,901	19 0
„ Balance carried down				2,310	1 9
				£400,499	19 8
				£400,499	19 8
By Balance at 31st December, 1941, brought forward ...				£15,439	13 8
				£15,439	13 8
				£15,439	13 8

Referred to in our Report of 21st May, 1943.

ALEX. AIKEN & CARTER, }
B. HALSEY, } Auditors.

Electricity Supply

SABIE

Dr. Revenue Account for the Year

To Operation—		Generation of Electricity.	
Water, Oil, Waste and Stores	£122 14 3		
Salaries and Wages	2,391 17 3		
„ Maintenance—			
Stores	826 13 10		
Salaries and Wages	246 2 6		
Other Expenses	119 2 9		
		£3,706 10 7	
„ Operation and Maintenance—			
Stores	61 6 3		
Salaries and Wages	357 11 11		
Other Expenses	287 7 7		
		706 5 9	
„ Local Administration and Technical Management		315 7 1	
„ General Expenses (including Maintenance of Quarters, Insurance, Pension Fund Contributions, etc.)		216 14 10	
„ Head Office Administration and General Expenses, including Publicity		959 14 5	
„ Engineering Expenses		490 11 3	
		1,982 7 7	
		6,395 3 11	
„ Interest		4,248 5 9	
„ Redemption Fund		3,481 2 3	
„ Amount set aside to Reserve Fund		600 6 0	
„ Balance carried down		120 17 9	
		£14,845 9 8	
To Balance as per Balance Sheet		£176 2 6	
		£176 2 6	

J. VAN NIEKERK, Chief Accountant.

Johannesburg,
22nd April, 1943.

Account No. 7.

Commission.

UNDERTAKING.

ended 31st December, 1942.

Cr.

By Sales of Electricity—			
Mining Supplies	£14,845 9 8		
By Balance at 31st December, 1941, brought forward		£55 4 9	
.. Balance brought down		120 17 9	
		£176 2 6	

Referred to in our Report of 21st May, 1943.

ALEX. AIKEN & CARTER, }
B. HALSEY, } Auditors.

Electricity Supply

KLIP GENERATING

Dr. Revenue Account for the Year

Generation of Electricity.						
To Operation—						
Fuel	...	...	...	...	...	£416,896 2 8
Water, Oil, Waste and Stores	...	...	...	...	...	6,010 4 11
Salaries and Wages	...	...	...	...	...	51,179 16 7
Other Expenses	...	...	...	...	...	1,796 2 3
„ Maintenance—						
Stores	...	...	...	...	...	15,868 3 1
Salaries and Wages	...	...	...	...	...	28,197 11 10
Other Expenses	...	...	...	...	...	12,919 15 9
						£532,867 17 1
General Expenses.						
„ Local Administration and Technical Management	...	...	...	...	...	11,959 8 1
„ General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.)	...	...	...	...	...	17,821 18 3
„ Administration, Engineering and General Expenses of Operating Party (The Victoria Falls and Transvaal Power Company, Limited)	...	...	...	...	...	17,325 0 0
„ Head Office Administration and General Expenses, including Publicity	...	...	...	...	...	6,608 3 0
„ Engineering Expenses	...	...	...	...	...	3,377 15 4
						57,092 4 8
„ Interest	...	...	...	...	...	589,960 1 9
„ Redemption Fund	...	...	...	...	...	221,946 16 11
„ Provision for Repayment of Amounts Outstanding (Rand Water Board)	...	...	...	...	...	159,569 12 2
„ Amount set aside to Reserve Fund	...	...	...	...	...	6,679 4 2
						62,152 4 4
						£1,040,307 19 4

J. VAN NIEKERK, Chief Accountant.

Johannesburg,
22nd April, 1943.

Commission.

STATION UNDERTAKING.

ended 31st December, 1942.

Cr.

By Sales of Electricity—						
Bulk Supplies	...	...	...	...	...	£1,035,566 15 6
„ Other Revenue	...	...	...	...	...	4,741 3 10
						£1,040,307 19 4

Referred to in our Report of 21st May, 1943.

ALEX. AIKEN & CARTER, }
B. HALSEY, } Auditors.

Account No. 9.

Electricity Supply**RAND EXTENSION****Dr. Revenue Account for the Year**

To General Expenses (Insurance)	£145 4 6	
„ Head Office Administration and General Expenses, including Publicity	687 0 6	
„ Engineering Expenses	351 3 6	
	<hr/>	£1,183 8 6
„ Interest		28,368 7 2
„ Redemption Fund		20,767 17 8
„ Amount set aside to Reserve Fund		8,089 1 3
		<hr/>
		<u>£58,408 14 7</u>

J. VAN NIEKERK, Chief Accountant.

Johannesburg,
22nd April, 1943.**Commission.****UNDERTAKING.****ended 31st December, 1942.****Cr.**

By Amount recovered from The Victoria Falls and Transvaal Power Company, Limited	£58,408 14 7
	<hr/>
	<u>£58,408 14 7</u>

Referred to in our Report of 21st May, 1943.

ALEX. AIKEN & CARTER, }
B. HALSEY, } Auditors.

Electricity Supply Commission.

STATEMENT SHOWING THE PRICE OR RENT OF LAND OR RIGHTS OR INTERESTS IN OR OVER LAND OR OTHER PROPERTY ACQUIRED OR HIRED BY THE COMMISSION DURING THE YEAR 1942.

(See previous Annual Reports for Rights or Interests in or over Land Acquired prior to 1942.)

Farm or Lot.	District.	Title.	Purchase Price or Rental.	Acquired From.	Purpose for which Required.
NATAL CENTRAL UNDERTAKING.					
Sub. 2 of Crookes	Pietermaritzburg	Purchase of 1 rood	£7 10 0	Fimmingley Estates (Pty.), Ltd.	Sub-station Site
Leliefontein No. 1175	do.	Purchase of 25 perches	£20 0 0	S. E. Ritchie	do.
do.	do.	Servitude of Right-of-way in Perpetuity	£17 10 0	do.	Power Conductors
do.	do.	do.	£12 10 0	D. A. Ritchie	do.
Barry Estate A No. 266	Harrismith	do.	£6 10 0	P. M. Brits	do.
do.	do.	do.	£15 0 0	M. J. P. J. van Vuuren	do.
Leliefontein	Pietermaritzburg	do.	£9 0 0	Estate of the late Dowlet Singh	do.
Mooiplaats No. 666	Bethlehem	do.	£5 15 0	L. J. J. van Rensburg	do.
Driekuil No. 675	do.	do.	—	Municipality of Kestell	do.
Morgenzon No. 414	Harrismith	do.	£8 5 0	E. M. Papenfus	do.
Pietermaritzburg Townlands	Pietermaritzburg	do.	—	Pietermaritzburg Corporation	do.
Vaal Kop and Dadelfontein No. 885	do.	do.	£3 10 0	C. E. H. Thrash	do.
Crookes	do.	do.	£7 10 0	Fimmingley Estates (Pty.), Ltd.	do.
Ordnance Land No. 1686 and Pietermaritzburg Townlands	do.	do.	—	Government of the Union of South Africa	do.
CAPE TOWN UNDERTAKING.					
Portion 15 of Compagnies Drift	Caledon	Purchase of 1 morgen	£75 0 0	J. J. Kaplan	Sub-station and Depot Site
Portion 2 of De la Haye	Worcester	Purchase of 262 sq. roods 50 sq. feet	£200 0 0	G. W. S. Gie	Sub-station Site
Langhoogte A	Caledon	Servitude of Right-of-way in Perpetuity	£13 5 11	J. S. le Roux	Power Conductors
do.	do.	do.	£34 0 0	G. S. P. le Roux	do.
Langhoogte and Langhoogte A	do.	do.	£42 11 11	S. D. le Roux	do.
Compagnies Drift and Bot River Central	do.	do.	£15 6 0	Bot River Township Ltd.	do.
Compagnies Drift and Bavians Krantz	do.	do.	£25 19 0	J. J. Kaplan	do.
RAND EXTENSION UNDERTAKING.					
Hartebeestfontein No. 41	Klerksdorp	Servitude of Right-of-way in Perpetuity	£30 15 0	Government of the Union of South Africa	Power Conductors
Rietspruit No. 52	Vereeniging	do.	£5 14 0 per annum	W. J. J. Kok and others	do.
Middelbult No. 22	Springs	do.	£14 3 6 per annum	L. J. Jacobsz and others	do.
do.	do.	do.	£1 9 0 per annum	M. Blieden and L. Caplan	do.
Witklip No. 13	do.	do.	£2 15 8 per annum	J. v. N. Celliers	do.
Rietfontein No. 33	Johannesburg	do.	£12 16 0	Newcastle Smelting Works Ltd.	do.
do.	do.	do.	—	D. J. Laing	do.
Elandsfontein No. 13	Krugersdorp	do.	£5 0 0	S. Venter	do.
Rietfontein No. 74	Vereeniging	do.	£3 16 6 per annum	H. P. J. van Vuuren	do.
do.	do.	do.	£2 0 0 per annum	J. P. J. van Vuuren	do.
do.	do.	do.	£4 12 0 per annum	E. P. Muller	do.
Elandsfontein No. 13	Roodepoort	do.	do.	do.	do.
Jachtfontein No. 91	Vereeniging	do.	£22 16 9 per annum	M. A. Muller	do.
Poortje No. 6	do.	do.	do.	do.	do.
Rietfontein No. 63	do.	do.	do.	do.	do.
Kwaggafontein No. 10	do.	do.	£9 8 0 per annum	L. C. Cronje	do.
Jachtfontein No. 99	do.	do.	£1 14 6 per annum	C. J. Geldenhuys	do.
Blesbokfontein No. 60	do.	do.	£1 17 0 per annum	D. J. R. Opperman	do.
Hoffontein No. 55	do.	Servitude of Right-of-way for 99 years	£4 0 3 per annum	J. J. van Zyl	do.
Nooitgedacht No. 53	Klerksdorp	Servitude of Right-of-way in Perpetuity	£5 0 0	J. C. Burger and others	do.
Edenburg Township	Johannesburg	Servitude for Transformer Site in Perpetuity	£50 0 0	Sisters of Charity of J.M. Mother House, Ghent	do.
Sandown Township	do.	Servitude of Right-of-way in Perpetuity	£5 0 0	C. E. M. B. Bagge	do.
Palmietfontein No. 29	Klerksdorp	do.	£35 0 0	Estate late J. A. Neser	do.
Zevenfontein No. 193	Vredefort	do.	£5 0 0	J. Fell	do.
Boschbank No. 12 and Rietfontein No. 123	do.	do.	£28 15 0 per annum	P. W. Jordaan	do.
Wildebeestspan No. 40	Klerksdorp	do.	£5 0 0	A. Motseunyane	do.
Hartebeestfontein No. 41	do.	do.	£5 18 0 per annum	Union Government and others	do.
do.	do.	do.	£4 7 0 per annum	Union Government and G. S. Viljoen	do.
Wildebeestspan No. 40	do.	do.	£8 0 0	I. Makgate	do.
Waterpan No. 17	Krugersdorp	do.	£96 1 0	R. Fisman and J. Miller	do.
Vlakfontein No. 26	Vereeniging	do.	£10 12 0 per annum	J. P. Cronje	do.
Waterpan No. 17	Krugersdorp	do.	£2 5 0 per annum	J. L. du Plessis	do.
Vlakfontein No. 26	Vereeniging	do.	£4 11 0 per annum	J. J. Engelbrecht	do.
Kwaggafontein and Rietspruit No. 91	do.	do.	£14 11 0 per annum	M. S. and F. J. Basson	do.
Vlakfontein No. 26	do.	do.	£3 2 0 per annum	J. J. van der Merwe	do.
do.	do.	do.	£6 17 9 per annum	J. Meintjes	do.
Waterpan No. 17	Krugersdorp	do.	—	Union Government	do.
Rietspruit No. 91	Vereeniging	do.	£5 initial payment and £3 7 6 per annum	J. J. Schoeman	do.
Vlakfontein No. 26	do.	do.	£5 7 0 per annum	C. F. J. van der Merwe	do.
do.	do.	do.	2 3 per annum	J. C. van der Merwe	do.
do.	do.	do.	£30 15 0	G. R. Sanders	do.
Blesbokfontein No. 60	do.	do.	£1 5 0 per annum	J. J. A. C. Smit	do.
Nooitgedacht No. 53	Klerksdorp	do.	£5 0 0	G. S. and J. A. Swanepoel	do.
Zandfontein No. 1	Johannesburg	do.	£5 0 0	M. P. Harrison	do.
do.	do.	do.	£5 0 0	W. Nicol	do.
do.	do.	do.	£5 0 0	I. Michel	do.
do.	do.	do.	£1 15 0 per annum	M. J. Heyneke	do.
do.	do.	do.	£16 0 0	M. Simpson	do.
Klippoortje No. 10	Nigel	do.	£2 2 6 per annum	L. Stoker and P. Schuurman	do.
Waternal No. 31	Johannesburg	do.	£5 0 0	Witwatersrand Estates Ltd.	do.
Rietkol No. 41	Springs	do.	£7 1 0 per annum	I. Isakov and T. Abramovitz	do.
Middelbult No. 22	do.	do.	£100 0 0	Eloff Plantations and Township Syndicate Ltd.	do.
Grootfontein No. 74	Potchefstroom	do.	£51 9 0	G. A. J. Saayman	do.
Rietpoort No. 114	do.	do.	£23 0 0	T. Tom	do.
Parkmore Township	Johannesburg	do.	£5 0 0	African Realty Trust Ltd.	Stay Wire
KLIP GENERATING STATION UNDERTAKING.					
Koekfontein No. 57 and Waldrift No. 92	Vereeniging	Servitude of Right-of-way in Perpetuity	£33 6 8 per annum	Estate late Donald McKay	Power Conductors and Water Pipes

ANNEXURE "B"

ELECTRICITY SUPPLY COMMISSION - 20th REPORT (1942)

STATEMENT NO. 1.

Summary of principal plant and equipment installed at the Commission's several Undertakings as at 31st December, 1942 : -

POWER STATIONS.

Caledon (Cape Town Undertaking)	Oil
Colenso (Natal Central Undertaking)	Steam
Congella (Durban Undertaking)	Steam
Klip	Steam
Margate (Durban Undertaking)	Oil
Sobic	Hydro
Salt River (Cape Town Undertaking)	Steam
Vollsrust (Natal Central Undertaking)	Oil
Witbank	Steam

BOILER PLANT

Power Station	No. of Boilers	Normal Rating of each Boiler Lbs. of steam per hour	Total Rating of all Boilers. Lbs. of steam per hour.	Pressure Lbs. per Square inch.
Colenso	{ 8 4	{ 60,000 90,000	840,000	290
Congella	{ 6 4	{ 60,000 100,000	760,000	{ 275 300
Klip	22	180,000	3,960,000	390
Salt River	{ 2 6	{ 60,000 100,000	720,000	{ 270 425
Witbank	20	70,000	1,400,000	225
TOTALS	72		7,680,000	

GENERATING PLANT.

Power Station	No. of Generators	Normal Rating of each Generator		Rating of Generator House		Voltage of Generation	Rating of House Sets Kilowatts					
		Kilo-watts	Kilovolt Amperes	Kilo-watts	Kilovolt Amperes.							
Caledon	{ 1 2	135 50	- -	235	-	500/250 D.C.						
<i>Colems</i>	5	12,000	13,350					60,000	66,750	6,600 A.C.		
Congella	{ 2 3	6,000 12,000	7,500 15,000	98,000	122,500	{ 6,600 A.C. 6,600 A.C. 6,600 A.C. 33,000 A.C.						
	{ 1 1	20,000 30,000	25,000 37,500									
	Klip	12	33,000					41,250	396,000	495,000	10,500 A.C.	28,000
	Margate	{ 1 1	93 73					110 86	166	196	380/220 A.C.	
Sabie	3	450	600	1,350	1,800	3,300 A.C.						
Salt River	{ 3 3	10,000 20,000	11,000 25,000	90,000	108,000	{ 12,000 A.C. 33,000 A.C.	300					
	Volkstrust	2	250					300	500	600	3,300 A.C.	
Witbank	5	20,000	23,500	100,000	117,500	6,600 A.C.	8,000					
TOTALS	45			746,251	912,346		36,300					

Total Station Capacity: 782,551 Kilowatts.
(inc. House Sets)

TRANSMISSION LINES AND CABLES.

Undertaking.	88,000 volts Route Miles	80,000 volts Route Miles	40,000 volts Route Miles	33,000 volts Route Miles	22,000, 21,000 20,000 volts Route Miles	12,000, 11,000 volts Route Miles	6,600, 3,300 2,200, 2,000 volts Route Miles	380/220 volts Route Miles	Total Route Miles
Cape Town	-	-	-	302	-	116	136	178	732
Durban (South Coast)	-	-	-	58	-	28	28	47	161
Natal Central	547	-	-	33	67	127	184	79	1037
Rand Extension	-	258	81	-	9	-	23	15	386
Sabie	-	-	-	-	7	-	-	1	8
Witbank	-	-	22	-	116	-	28	31	197
TOTALS	547	258	103	393	199	271	399	351	2521

ELECTRICITY SUPPLY COMMISSION
STATEMENT No. 2.

Summary of principal plant and equipment in course of installation
or on order as at 31st December, 1942:-

BOILER PLANT

Power Station	Number of Boilers	Capacity in lbs. of steam per hour (normal rating)		Pressure lbs. sq. inch
		Each	Total	
Congella	3	200,000	600,000	625
Klip	2	180,000	360,000	390
Vaal	6	190,000	1,140,000	390
			2,100,000	

GENERATING PLANT

Power Station	Number of Sets	Capacity Each	Total Kilowatts
Colenso	1	25,000 kW	25,000
Congella	1	40,000 kW	40,000
Port Shepstone	2	700 kW	1,400
Vaal	(5 1	33,000 kW 7,500 kW (House Set)	172,500
			238,900

TRANSFORMERS

(Step-up and Step-down)

	Kilovolt-Amperes
Total capacity in course of installation or on order	427,938

CONVERTING SUB-STATIONS.

Type	Number of Sub-Stations	Number of Sets	Total Rating
Mercury Arc Rectifiers	5	7	14168 kW Forward
Motor Generator	1	1	2400 kW

STATIC TRANSFORMERS AT POWER STATIONS AND SUB-STATIONS.

(Step-up and Step-down, including Spares)

Undertaking	Capacity Kilovolt-Amperes
Cape Town	148,824
Durban	70,535
Klip	549,133
Natal Central	216,658
Rand Extension	243,000
Reef	71,890
Sabie	3,640
Witbank	187,196
TOTAL	1,490,876

CONVERTING SUB-STATIONS.

Type	Number of Sub-stations	Number of Units	Total Rating
Motor Generators	13	23	46,000 kW
Rotary Converters	7	14	28,000 kW
Rectifiers	30	44 +	69,837 kW *
TOTALS	50	81	-

+Of these some are equipped for rectifying and inverting - the total inverted rating is 10,000 kW.

* Forward rating.

STATEMENT NO. 4

Units sold to all consumers during the past eighteen years.

Year	Cape Town Under- taking	Durban Under- taking	Klip Under- taking	Natal Cent. Under- taking	Sabie Under- taking	Witbank Under-	TOTAL
1925	-	-	-	-	75,943	-	75,943
1926	280,242	-	-	719,666	651,458	160,031,213	161,682,579
1927	5,811,836	-	-	104,206,235	1,938,940	439,061,722	551,018,733
1928	31,038,697	15,563,460	-	114,213,037	2,829,888	464,267,213	627,912,295
1929	47,945,690	78,873,576	-	123,911,774	3,176,173	543,091,138	796,998,351
1930	49,772,016	99,228,000	-	117,075,484	4,585,060	618,951,364	889,611,924
1931	52,109,958	103,899,765	-	101,131,880	6,585,553	603,359,113	867,086,269
1932	64,268,873	109,808,223	-	100,292,933	6,080,010	610,285,123	890,735,162
1933	100,685,629	118,538,312	-	109,186,538	6,349,651	639,368,114	974,128,244
1934	73,583,974	131,104,182	-	124,898,129	7,329,679	648,245,530	985,161,494
1935	80,020,511	149,874,024	-	154,278,600	7,181,282	727,888,529	1,119,242,946
1936	85,840,383	170,493,987	556,997,155	171,476,131	6,863,253	696,376,199	1,688,047,108
1937	94,038,449	189,412,691	1,349,853,464	210,632,827	7,166,684	684,516,633	2,535,620,748
1938	98,801,619	209,495,780	1,666,852,594	234,948,157	7,240,167	768,114,272	2,985,452,589
1939	106,451,848	233,677,491	2,193,206,661	266,238,056	6,380,657	767,741,727	3,573,696,440
1940	119,770,941	242,741,129	2,566,536,197	281,121,807	6,669,552	853,317,743	4,070,157,369
1941	136,240,415	270,316,419	2,675,943,959	302,395,900	6,565,110	862,562,248	4,254,024,051
1942	151,769,902	273,748,608	2,707,829,911	307,724,141	6,335,396	873,440,460	4,320,848,418

NOTE - The units sold at Cape Town do not include the units supplied to Cape Town Corporation under the Pooling Agreement.

STATEMENT NO. 5

Distribution of the units sold during 1942 as between the various classes of consumers.

UNITS SOLD, 1942.

Undertaking.	Traction	Bulk	Industrial and Mining	Domestic and Lighting	Total
Cape Town	66,547,170	17,661,925	53,352,046	14,208,761	151,769,902
Durban	-	255,550,652	15,833,722	2,364,234	273,748,608
Klip	-	2,707,829,911	-	-	2,707,829,911
Natal Central	246,557,649	45,261,875	12,772,511	3,132,106	307,724,141
Sabie	-	-	6,335,396	-	6,335,396
Witbank	110,728,918	618,413,017	142,517,964	1,780,561	873,440,460
TOTALS	423,833,737	3,644,717,380	230,811,639	21,485,662	4,320,848,418

STATEMENT NO. 6.

POWER STATION STATISTICS - 1942.

Power Station	Units Generated	Maximum Half-hourly Demand Kilowatts (Sent Out)	Load Factor on Units Sent Out %
Caledon	379,609	-	-
Colenso	346,163,200	56,580	66.3
Congella	292,825,850	72,410	42.5
De Doorns	748,937	-	-
Klip	2,679,252,030	376,200 (Hour)	82.2
Margate	24,343		
Rawsonville	48,900		
Sabie	6,781,800	1,160	65.9
Salt River	129,618,500	62,600	21.9
Volkstrust	6,084	-	-
Witbank	818,800,001	104,105	83.8
	<u>4,474,649,254</u>		

STATEMENT NO. 7

Particulars of coal used at the Commission's Steam-raising Power Stations during 1942.

Power Station	COAL CONSUMED			B.T.U.'s		Thermal Efficiency on Units Sent Out.
	Tons. (2,000 lbs.)	Per Unit Generated Lbs.	Per Unit Sent Out Lbs.	Average per lb. of Coal.	Average per Unit Sent Out	
Colenso	252,317	1.46	1.54	12,340	19,000	18.0
Congella	205,520	1.40	1.52	12,180	18,550	18.4
Klip	2,330,884	1.62	1.72	9,240	15,910	21.5
Salt River	92,107	1.42	1.53	12,600	19,300	17.7
Witbank	706,091	1.72	1.85	10,870	20,090	17.0
	<u>3,586,919</u>					

Average Cost per ton (2,000 lbs.)

	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942
Colenso	8/-	8/3	9/10	10/7	10/9	10/9	11/-	10/10	10/9	10/11	10/11	11/0	10/11
Congella	13/2	14/2	15/4	15/6	15/4	15/-	15/5	15/2	15/-	15/3	15/2	15/3	15/2
Klip	-	-	-	-	-	-	3/2	3/-	3/3	3/4	3/6	3/6	3/7
Salt River	23/5	23/4	24/11	25/4	25/6	25/4	25/4	24/8	25/1	25/6	25/7	25/7	25/3
Witbank	2/2	2/2	2/4	2/4	2/3	2/3	2/2	2/2	2/1	2/1	2/-	2/-	2/1