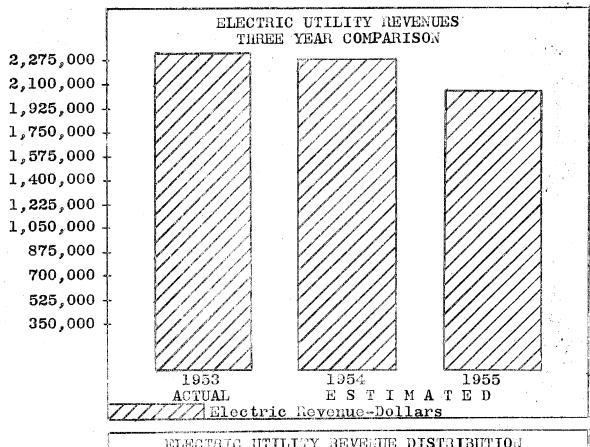
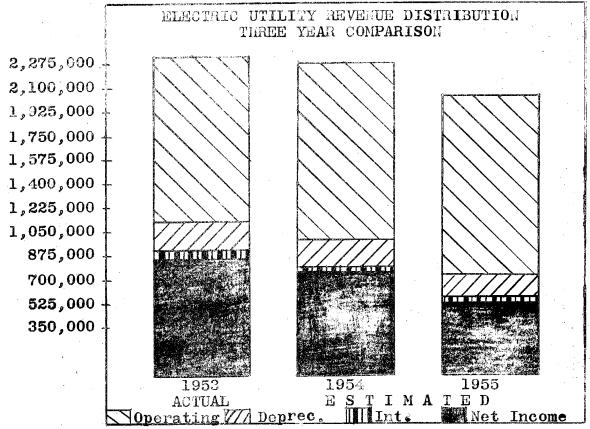
# ELECTRIC UTILITY FUND BUDGET

City of Anchorage 1955





#### ELECTRIC UTILITY FUND 1955 BUDGET

#### OPERATING REVENUES

Code		Estimated 1954	Estimated 1955
E 600 E 602 E 603 E 604 E 607 E 612 E 614	Residential & Domestic	1,254,701 46,000 y 60,000	\$ 752,700 1,117,300 61,000 60,000 22,000 14,000
E 615	lations  Misc. Electrical Revenue  Depreciation Reserve	$\begin{array}{r} 4,200 \\ \$2,243,529 \\ 108,790 \end{array}$	2,000 11,300 \$2,040,300 173,191
	TOTAL RESOURCES	\$2,352,319	\$2,213,491

#### EXPLANATION OF ELECTRIC REVENUE ESTIMATES:

Revenues from residential and commercial customers were estimated to be approximately 10% below that for 1954. Beginning January 1 there will go into effect an average 20% reduction in rates, which loss is partially off-set by an estimated normal increase in consumption of 10% based on past records.

Street lighting revenues have been increased to allow for new units to be added as detailed in this budget. A new Account No. 603 represents energy sold for street lights and traffic signals only.

A new Account No. 604 has been set up for control of revenue from sales to other public agencies at rates other than our established schedule of rates. At present only the International Airport receives this special rate.

All energy sold to the City, except for street lighting and traffic signals, is reported in Account No. 607.

A 30-day period for payment of utility bills was started in 1954 and a 10% penalty imposed for delinquent payments. The 1955 estimate for customer forfeits and discounts follows the 1954 experience.

Servicing customers installations for reimbursable items and miscellaneous revenue is derived from sale of surplus items and payment for personal services performed for other City departments.

A new source of revenue is included in Account No. 615 as a result of the new proposed policy of installing traffic signals by the Electrical Department and renting them to the General Fund Account.

Depreciation reserve is used to improve the system and replace existing worn-out installations. Therefore, it is added as a revenue item in order that it can be expended for capital improvements.

## ELECTRIC UTILITY FUND 1955 BUDGET

## EXPENDITURE SUMMARY

Expenditure Classification	Estimated 1954	Estimated 1955
Distribution Expenditures:  Cost of Power	98,800 67,014 83,200 23,090 27,300 544,467	\$ 645,800 77,860 73,460 101,980 70,416 41,800 572,309
Generation Expenditures: Steam Generation Oper. Expense Steam Generation Maint. Expense Diesel Generation Oper. Expense Diesel Generation Maint. Expense. Transmission Expenses General & Administrative Expenses Depreciation		\$1,583,625 72,304 6,302 102,160 56,510 4,080 13,766 58,858 \$313,980
Capital Expenditures  Total Electric Distribution &	220,948	315,886
Generation Budget	(T) \$2,352,319	\$2,213,491

<sup>(1) 1954</sup> estimates include only Electric Distribution figures.

## ELECTRIC UTILITY EXPENDITURES

Code		Estimated 1954		stimated 1955
C	ost of Power			
E 738	Purchased Power	\$1,287,500	\$	645,800
<u>O</u>	perating Expenses			
E 756	Supervision & Engineering	33,500		6,000
	Distribution Maps & Records			7,000
	Distribution Office Expense			120
E 759.1	Station Labor	4,800		2,000
E 759.2	Station Supplies			300
	Station Storage Battery			120
	Overhead Lines	-		6,000
	Underground Lines	100		120
E 761.3	Removing & resetting	30.000		22 222
	transformers			20,000
	Removing & resetting meters	20,500		28,000
E 762.2	Other Services on Customers	9 900		<b>r</b> 000
TO PAGO T	Premises	8,800		7,000
E 703°T	Operation of Overhead Street Light System	1,000		1,200
	Total Operating Expenses		- \$	$\frac{1,200}{77,860}$
M		W 00,000	Hr.	,000
7.13	aintenance Expenses			
E 764	Supervision & Engineering	9,800		6,000
E 765	Structures & Improvements			4,000
E 766	Station Equipment			600
E 768.1	Poles, Towers & Fixtures			19,000
E 768.2	Overhead Conductors & Devices			15,000
E 769.2	Underground Conductors &	•		· •
	Devices	<b>=</b>		600
E 770	Line Transformers & Devices	2,521		3,000
E 771	Services			4,000
E 772	Meters	7,800		7,000
E 773	Inst. on Customers! Premises.	100		120
E 775	Street Lighting and Signal	7.0.000		
	Systems	10,000		14,000
E 776	Rents	# 67 014	- A	$\frac{140}{72.460}$
	Total Maintenance Expenses	\$ 67,014	\$	73,460
Cı	ustomer Accounting & Collectin	g Expenses		a.
m <b>res</b> o c	Water Douling	94 600		10 600
	Meter Reading	24,700 58,500		18,600
E 781	Billing & Collecting	58,500		83,380
	Total Customer Accounting & Collecting Expenses	\$ 83,200	\$	101,980

Code	de Estimated 1954	
Administrative & General Expens	ses	
E 790 Salaries of General Officers.		\$ 13,856
E 791 Other General Office Salaries	· ,,	6,000
E 792.1 Expenses of General Office		500
E 793 General Office Supplies &		
Expense	660	2,436
E 795 Special Services	,	20,000
E 799 Injuries & Damage (Insurance).	, and can	7,200
E 800.1 Employees Welfare	830	1,200
E 800.2 Pension		3,000
E 801 Miscellaneous General Expense	21,000	4,824
E 802.3 Maintenance of Communications		
Equipment	400	1,800
E 802.4 Maintenance of Miscellaneous		
Property	200	600
E 803 Rent		9,000
Total Administrative &	# 00 000	
General Expense	\$ 23,090	\$ 70,416
Clearing Accounts		
F 000 C***** B	• • • • • •	
E 902 Stores Expense	15,000	29,000
1	12,000	12,000
T T 0 - 0 - 0 - 0 - 0 - 0 - 0	100	600
E 909 Approved Nat'l Guard Leave Total Clearing Accounts		200
rotal Clearing Accounts	\$ 27,300	\$ 41,800
Other Expenses		
E 503 Depreciation	ግብዬ ማዕሰ	114 999
E 507 Operating Tax	108,790 3 <b>7,388</b>	114,333 38,757
E 530 Interest on Long Term Debt	13,969	19,219
E 411 Contribution to General Fund	359,320	360,000
E 210 Reserve for Bonds	25,000	40,000
	\$ 544,467	\$ 572,309
TOTAL DISTRIBUTION BUDGET 2000000000000000000000000000000000000	\$2,352,319	\$1,583,625

## ELECTRIC GENERATION EXPENDITURES

Code		Es	timated 1955
<u>s</u>	team Generation Operating Expenses		
E 702.2 E 702.4 E 703 E 704 E 705.1 E 705.2	Operation, Supervision & Engr  Boiler Labor  Turbine & Generator Labor  Miscellaneous Station Labor  Fuel  Water  Lubricants  Station Supplies  Station Expense  Total Steam Operating Expense	\$	2,024 10,080 14,000 16,800 26,400 2,400 100 400 72,304
M	aintenance Expense		
E 708.2 E 708.3 E 709.1 E 709.2	Maintenance Supervision & Engr  Maintenance of Structures & Imp  Fuel Storage  Furnace & Boilers  Boiler Apparatus  Maintenance of Turbine & Generator  Maintenance of Accessory Equipment  Maintenance of Miscellaneous Equip  Rents	\$	2,000 300 600 200 400 800 1,000 1,000 2 6,302
<u>D</u> :	iesel Generation - Operating Expense		
E 728.3 E 729 E 730.1 E 730.2 E 730.3 E 730.4	Operations, Supervision & Engr Engine Labor	<del>69</del>	6,000 54,000 5,400 2,400 24,000 60 3,000 900 6,400 102,160
E 731	Supervision and Engr		14,000
E 732 E 733	Structures		900 240

Code		Estimated 1955
Di	esel Maintenance(continued)	
E 734.2 E 734.3	Engines	$\begin{array}{r} \$ & 36,000 \\ 180 \\ 360 \\ 4,800 \\ \hline & \$ & 56,510 \\ \end{array}$
Tr	ansmission Expenses	
E 744 E 745.2	Load Dispatching Station Supplies Total Transmission Expenses	$   \begin{array}{r}     3,600 \\     480 \\     \hline     4,080   \end{array} $
Ge	neral & Administrative Expenses	
E 791 E 793 E 797 E 800.1 E 802.3 E 803	Maint. of Office Furniture & Equip Rents	7,000 1,800 866 900 200 3,000 \$ 13,766
	Other Expense Depreciation	\$ 58,858
То	tal Generation Budget	\$ 313,980
E 100.3	Capital Expenditure Fund220,948 (see Schedule A)	315,886
	<u>1954</u>	
TO	TAL BUDGET\$2,352,319	\$2,213,491

Comparative Statement of Inc	come & Expen Actual 1953	Estimated 1954	Estimated 1955	
Operating Revenues	\$2,325,588	\$2,282,178	\$2,040,300	
Less:				
Operating Expenditures Depreciation	1,204,901 222,634	1,292,393 219,490	1,305,195 173,191	
Net Operating Income	898,053	770, 295	561,914	
Less: Interest Expense	50,531	31,741	19,219	
Net Income	\$ 847,522	\$ 738,554	\$ 542,695	
Appropriation of Net Income				
Contribution to Gen. Fund	d\$ 348,000	\$ 359,320	\$ 360,000	
City Equity Increase	405,544	349,234	182,695	
Unappropriated Surplus	93,978	30,000		
Totals	\$ 847,522	\$ 738,554	\$ 542,695	

### 1955 WORK PROGRAM - ELECTRIC UTILITY

During 1954 the Anchorage Public Utilities was consolidated with the Electrical Distribution Department to form the Electrical Utility Department. This change was made possible through the purchase of the Little Eklutna facility by the Federal Government, the Bureau of Reclamation making available a 16,000 KW block of electrical energy as a primary source of power. This change has brought about the inclusion of generation as a part of the City Electric Department.

The proposed budget includes the operation of the Sacketts Harbor until May 1, 1955. It is expected that the plant will be disposed of by that time. It is not known how much the diesel plant will be operated during 1955. It appears that there will be six weeks full operation after the first of the year. The budget, as submitted, includes sufficient personnel, material and supplies to operate for the required time and in addition to put the engines in first class condition for standby operation.

A recommended plan for the provision of adequate stand—by generation to augment the present diesel plant will be submitted during 1955. This project should be undertaken on a "pay-as-you-go" basis using any funds now available from A.P.U., plus the annual credit to be received from the sale of Little Eklutna. It is possible that power demands will require faster development than can be met under this plan, but the year 1955 will provide experience and reveal the urgency of additional standby power development.

This budget provides for the installation of 20 intersections of traffic signals. We plan to make the capital outlay with Electrical Department funds and charge a monthly rental fee to the Public Works Department. This rental fee is based on amortization of the signals over a ten year period, plus electrical energy and maintenance.

Administrative projects to be undertaken during the year include:

- (1) Integration of the generation phase of the City power operations into the Electrical Department organization.
- (2) Complete a customer account numbering system to facilitate meter reading and operations in the Utility Billing Division.
- (3) Revise job order and work order drawing format to reduce duplication of work by draftsmen.
- (4) Continuing work on revising system drawings. Eventually to have a master set on tracing cloth.
- (5) In close coordination with the Billing Division, to devise methods for indentifying types of customers in the meter books in order to minimize billing errors and allow meter readers to better police the accounts.
- (6) Assemble data for the formulation of a five year plan of development of the utility. This plan will have three major factors taken into consideration.
  - a. Financial condition
  - b. Load growth
  - c. Additional facilities (including standby generation) required to serve added growth to the limit of financial ability.

Capital expenditures are substantially higher for 1955 than for 1954. This permits cash financing for the capital improvements, such as street lights, traffic signals, transmission lines, underground construction, sub-station installations, transformers, meters, tools and equipment, and other capital items which are needed to be purchased annually in the operation of a public utility business. It is recommended that the City should attempt to increase its capital expenditures annually until a \$400,000 figure is obtained. At this point, it appears reasonable that additions to the system above this amount should be financed by bonds and surplus revenues should be eliminated by reduction in rates. Capital projects for 1955 include the following:

- (1) Complete installation of new sub-station #3 and removal of the sub-station in the rear of City Hall.
- (2) Install underground distribution facilities in the downtown area to the limit of funds available during 1955.
- (3) Construct a second transmission line from Goose Lake sub-station to the present transmission loop to connect at the Post Road sub-station.
- (4) Construct a transmission tie between Seward Highway and Northern Lights sub-station.
- (5) Install 120 street lights in Airport Heights; Grandview Gardens; Spenard Road from 15th and "L" to City limits and 5th Avenue from East "K" to City limits in Mt. View.
- (6) Install 20 intersections of traffic signals, seven of which will be semi-traffic actuated.
- (7) Install automatic circuit protection in the 34 K.V. transmission loop.
- (8) Install 34 K.V. tie with CEA steam plant.
- (9) Do preliminary planning for adequate standby generation.
- (10) Move diesel generator from Little Eklutna to main plant.
- (11) Dispose of Sacketts Harbor.

- (12) Remove unnecessary poles, wires and fixtures in the industrial area adjacent to Sacketts Harbor.
- (13) Extend 4 K.V. primary from Government Hill substation to the industrial area adjacent to Sacketts Harbor.
- (14) Increase conductor size from 3rd and Gambell to Post Road sub-station and install necessary switching at the diesel plant.

Capital expenditures for inventory and materials include the following:

E 1.358	Transformers Labor for Installation	\$ 10,000 2,000	\$ 12,000
E 2.360	Meters Labor for Installation	2,500 500	3,000
E 3.359	Service Material Labor for Installation	7,500 2,500	10,000
E 4.377	Tools and equipment		4,225
E 5,372	Office Equipment: 3 - steel work tables 1 - dictating machine 1 - map rack 1 - 4 drawer legal file 1 - Redi Ref.catalogue file 1 - desk chair 3 - side arm chairs 1 - calculator 1 - P 712 Teletalk	450 340 300 100 180 100 150 660 100	2,380
E 6.373	Transportation Equipment: 2 - one tone 4 WD Willys 1 - meter installers body	4,294 1,000	5,294
E 7.387	Communications Equipment: 2 - dispatch point controls 1 - antenna, installed	400 500	900
E 8.363	Street Lighting & Signal Sys Purchase Eastchester lights from Inlet Power 20 Intersections of traffic signals 120 street lights	1,500 47,000 57,000	105,500

E 9.376	Laboratory Equipment:				
	l - radio noise locater	\$	350		
	l - portable high accurac	. <b>y</b>			
	voltmeter	· ·	249		
	1 - portable ammeter	<del>Constitution Co.</del>	100	\$	699
	Remaining capital for allocation to work order pr			17	1,888
TOTAL	CAPITAL EXPENDITURE FUND		5 0 0 0	\$31	5.886

Some progress was made during 1954 in the proper allocation of charges to the correct account numbers. There are still some changes in the allocation of charges to account numbers different from those that have been used in prior years. These are enumerated below.

Account 738 was decreased materially because of the anticipated purchase of power from the hydro-electric project to commence operation in 1955 by the Bureau of Reclamation. In addition to purchased power, the City will also provide for standby generation which totals \$255,122 and is included in the Generation Division expenditures. By adding the generation costs and the purchased power costs, it is anticipated that total power costs will be \$900,922. These savings have been passed on to the customers in the form of rate reductions.

Account 756 decreased by the amount of half the clerk's salary, superintendent's salary and a portion of general foreman's and electrical engineer's salaries. These reductions are spread to other more correct account numbers for these salaries.

Account 758.1 decreased by portions of the draftmen's salaries. These salaries will be charged to the particular capital construction and work orders.

Account 759.1 station labor decreased because of less frequent servicing of stations.

Account 761.1 increased to accommodate load and voltage check labor, previously charged to improper account.

Account 761.3 increased to allow for additional transformer changes due to increased loading.

Account 762.1 increased to include a portion of one clerk's salary. Increased number of cut-ins and cut-outs requires additional labor.

Account 764 decreased by part of one clerk's salary and part of general foreman's salary. These salaries are spread to other accounts.

Account 765 increased due to alterations needed to headquarters building.

Account 768.1 and 768.2 increased to allow for moving of poles and wires caused by street paving program.

Account 770 decreased by removing charges for load and voltage testing which are now reflected in Account 761.1.

Account 771 increased to provide for increased number of services to maintain.

Account 775 increased because of the additional number of street lights and traffic signals to maintain.

Account 780.3 decreased by one meter reader's time which was added to 781, since he is devising an account numbering system and will be used more under Account 781.

 $\frac{Account 781}{City Clerk}$  increased as per work program of Comptroller and

Account 790 increased by superintendent's salary. Previously carried in 756.

Account 791 increased by one clerk's salary previously carried under 756 and 764.

Account 793 increased to provide for telephone charges and automobile allowance previously carried in 801 and 903.

Account 795 set up to provide funds for appraisals of Inlet Light and Power and Chugach facilities.

Account 799 set up for compensation insurance, previously carried in Account 801.

 $\underline{\text{Account 801}}$  decreased by spreading parts of the expenditures to more appropriate account numbers.

Account 802.3 increased by the amount of the radio maintenance contract.

Account 803 set up for rent for the headquarters building.

## Comparative Statement of Income and Expense:

The comparative statement of income and expense for the Electrical Department appears to be losing ground at first However, the operating revenues have been decreased by a 5% reduction for the last half of 1954 in the electrical rates with an average reduction in 1955 of 20% below the 1953 rates. The operating expenditures have increased as the number of customers and consumption of more kilowatts of power has increased. On the other hand, depreciation is decreasing annually because of the fast write-off of generation facilities and no major replacements in the next year. Interest expense has been materially decreased because of the paying off of \$840,000 in bond obligations in the past two years. This rapid amortization has increased the City equity substantially in 1953 and 1954, as shown in the statement. Because of the high operating income, this favorable financial picture was possible. Now, with the 20% reduction in rates, the City's increase in equity to the system will drop but not in the corresponding amount. Analyzing the electrical net profit on the same basis as the water and telephone, the system should increase its equity at least 10% per year or \$250,000 to take care of normal expansion. In the 1955 budget, only \$40,000 of this equity will be obtained through the payment of debt amortization, which means that \$210,000 net in additions to the plant should be made in 1955 out of current revenues. The City now has an equity in its electrical system of approximately two and one-half million dollars. Applying a 6% return, it would mean that the electrical distribution should contribute \$150,000 per year as a net return to be used in general governmental services. Theoretically, this would mean that the total amount of net income from electrical distribution and generation should not exceed \$400,000. based on our existing plant; whereas, the statement shows that net income will be \$542,695. The distortion in the budget presentation is that the City equity should be increased \$67,305. contribution to the General Fund decreased \$210,000, and a further reduction in rates amounting to \$142,000. However, before such drastic reductions can be made in contribution to the General Fund, the water utility and telephone utility should have rate structures capable of paying their share of contributions to the General Fund and some other source of revenue would have to be obtained to make up the \$135,000 reduction in the return to the General Fund out of the utility operations. On the other hand, the City must consider making some substantial investment in generating facilities in the very near future. A financial plan to meet the commitments for such a large capital improvement should be prepared before embarking on further rate reductions.

