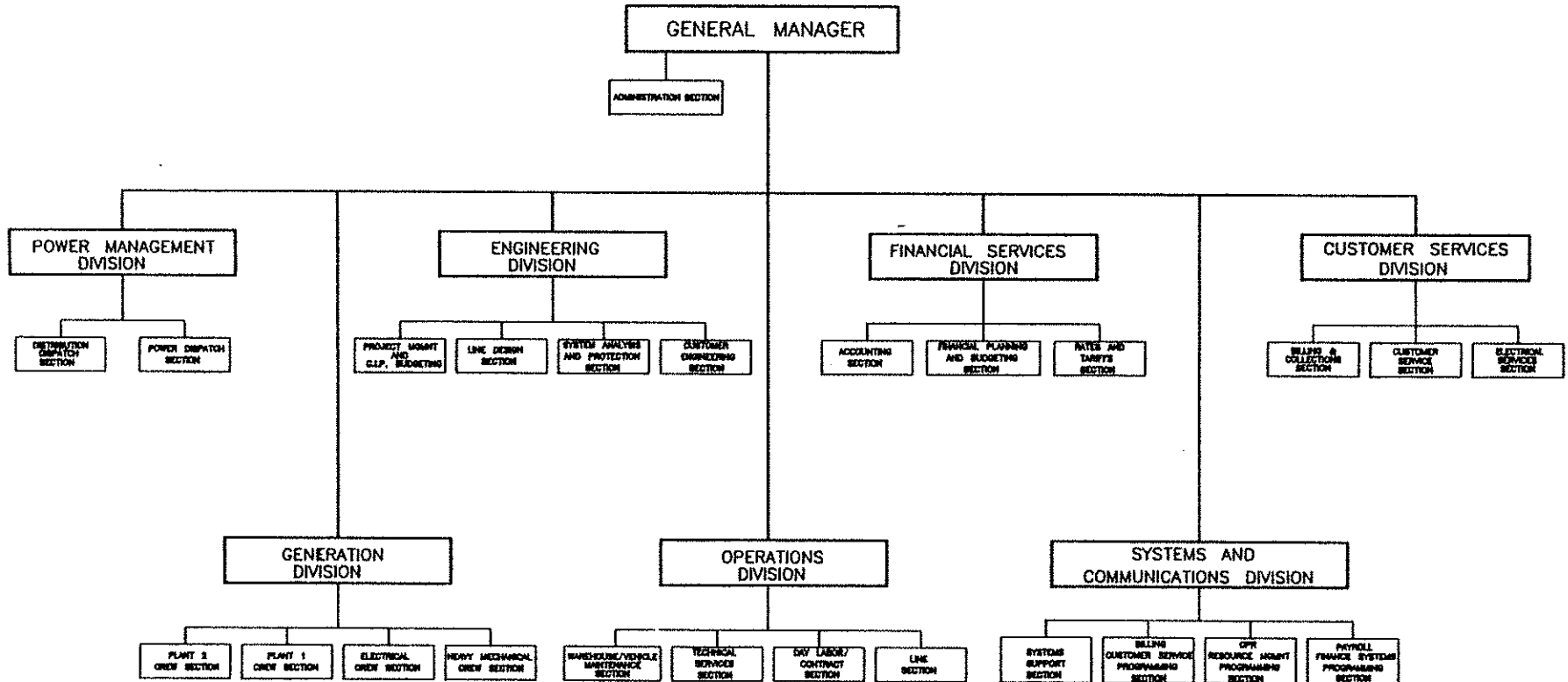


# **MUNICIPAL LIGHT AND POWER UTILITY**



# Municipal Light & Power Organization Chart



Utility MUNICIPAL LIGHT & POWER	Division	Budget Year
<p><u>MISSION</u></p> <p>Municipal Light and Power is committed to being Alaska's energy leader by being innovative and trustworthy in responding to our customer's needs for safe, economical and reliable electrical service.</p> <p><u>GOALS</u></p> <p>The goals of Municipal Light and Power (ML&amp;P) are to:</p> <ol style="list-style-type: none"> <li>1. Continue planning to ensure ML&amp;P's financial well-being while supplying our customers electrical energy requirements</li> <li>2. Operate and maintain the electrical system with optimum economic efficiency</li> <li>3. Promote the "customer is number one" program, which emphasizes customer assistance, and prompt and reliable service</li> <li>4. Provide for the safety of the public and employees in the operation of the electrical system</li> <li>5. Comply with environmental regulations</li> <li>6. Promote energy resource conservation through a shift from non-renewable to renewable and sustainable resources</li> <li>7. Continue with our leadership role in railbelt energy planning</li> <li>8. Continue program refinements for identifying customers with special electrical needs for life support</li> <li>9. Enhance programs that increase community knowledge of the electric utility and of electrical safety</li> <li>10. Plan with regard to aesthetics, within budget constraints</li> </ol>		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division	Budget Year 1989
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GOALS - CONTINUED

- 11. Improve financial management through implementation of a decentralized financial information system
- 12. Enhance resource management capabilities of existing ML&P information systems and develop new systems to provide timely project cost information
- 13. Improve document management and retrieval

Utility MUNICIPAL LIGHT & POWER	Division	Budget Year
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FUNCTIONAL DESCRIPTION

GENERAL MANAGER'S OFFICE

Through the seven Divisions reporting to it, this office is responsible for administering the Municipality's energy plan. The Department plans for its future needs develops the necessary programs, designs its projects, constructs those projects and operates and maintains those projects and facilities essential to providing electric service to its consumers.

Administrative Section

Provides administrative support to the General Manager. Also administers the utility personnel, safety, public relations, Federal and State regulatory compliance, central records management, billing preparation and mailing programs and the utility telephone switchboard/receptionist area.

OBJECTIVES AND TASKS

1. IMPROVEMENT IN EMPLOYEE RELATIONS
2. AIR QUALITY STUDY
  - Collect air quality and meteorological information to refine data base
  - Model dispersion effects as required by regulatory agencies
3. SECURITY SYSTEMS FOR ALL ML&P FACILITIES
  - Electronically monitor plants and substations
  - Ongoing review and enhancement of security needs
4. CONTINUE PCB TESTING AND REMOVAL
5. HAZARDOUS CHEMICALS CONTROL PROGRAM
  - Continue monitoring the use and control of hazardous chemicals
  - Continue review and refinement of the program

MUNICIPALITY OF ANCHORAGE

Utility	Division	Budget Year
<p>MUNICIPAL LIGHT &amp; POWER</p> <p><u>OBJECTIVES AND TASKS - CONTINUED</u></p> <p>6. PROVIDE FOR THE SAFETY OF ML&amp;P PERSONNEL AND THE PUBLIC</p> <ul style="list-style-type: none"> <li>- Training program refinements</li> <li>- Enhancements of inspection programs</li> </ul> <p>7. CONTINUE EDUCATIONAL PROGRAMS ON ENERGY AND SAFETY MATTERS</p> <ul style="list-style-type: none"> <li>- School presentations: "ZAP" and "Safety City"</li> </ul> <p>8. PROMOTE COMMUNITY UNDERSTANDING OF THE UTILITY</p> <ul style="list-style-type: none"> <li>- "Customer is Number One" program</li> <li>- Handout information for new customers</li> <li>- Educational programs for industry</li> <li>- Community Council participation</li> </ul> <p>9. REFINE UTILITY-WIDE DOCUMENT MANAGEMENT AND RETRIEVAL PROGRAM</p> <ul style="list-style-type: none"> <li>- Policies and procedures updates</li> <li>- Technical library relocation and expansion</li> <li>- Initiate computerized indexing</li> <li>- Provide internal training program</li> </ul> <p>10. IMPLEMENT UPDATED EMERGENCY PREPAREDNESS PLAN</p> <ul style="list-style-type: none"> <li>- Complete 25% of Plan tasks 1989, with balance complete by 1993</li> <li>- Provide internal training program</li> <li>- Refine plan objectives as required</li> </ul>		<p>1989</p>

Utility MUNICIPAL LIGHT & POWER	Division	Budget Year 1989
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FUNCTIONAL DESCRIPTION

SYSTEMS AND COMMUNICATIONS DIVISION

Provide decentralized, cost effective data processing and communication resources to each ML&P Division.

Computer Operation Section

Install, operate and maintain computer hardware and operating system software. Provide training and assistance to system users. Complete nightly scheduled processes. Ensure data integrity and system Security.

Customer Service and Financial Systems Programming Section

Analyze, design, develop, implement, maintain and support billing, accounts receivable and financial information related systems.

CPRMS and Resource Management Systems Programming Section

Analyze, design, develop, implement, maintain and support continuing property records management and resource management related systems.

MUNICIPALITY OF ANCHORAGE

Utility	Division	Budget Year
MUNICIPAL LIGHT & POWER		1989
<p><u>OBJECTIVES AND TASKS</u></p> <ol style="list-style-type: none"> <li>1. MAINTAIN COMPUTER SYSTEM SECURITY TO ENSURE DATA INTEGRITY</li> <li>2. PROVIDE MAINTENANCE TO OPERATIONAL SYSTEMS</li> <li>3. PROVIDE ENHANCEMENTS TO OPERATIONAL SYSTEMS               <ul style="list-style-type: none"> <li>- Inventory applications</li> <li>- Continuing Property Records System</li> <li>- Billing/Accounts Receivable Sub-systems</li> <li>- Financial Sub-Systems</li> <li>- Resource Management Sub-systems</li> <li>- Computer Aided Design Systems</li> </ul> </li> <li>4. INCREASE COMPUTER SYSTEM AVAILABILITY FOR USER INQUIRY</li> <li>5. SUPPORT THE ML&amp;P PORTION OF THE MUNICIPAL FINANCIAL INFORMATION SYSTEM</li> <li>6. CONTINUE DEVELOPMENT OF SYSTEMS TO SUPPORT RESOURCE MANAGEMENT ACTIVITIES</li> <li>7. PROVIDE SUPPORT IN THE DEVELOPMENT OF A STATE-OF-THE-ART RECORDS MANAGEMENT SYSTEM</li> <li>8. UPDATE LONG-RANGE DATA PROCESSING PLAN</li> <li>9. PLAN FOR AND INSTALL A NEW BUSINESS COMPUTER SYSTEM</li> </ol>		



MUNICIPALITY OF ANCHORAGE

Utility	Division	Budget Year
MUNICIPAL LIGHT & POWER		1989
<p><u>FUNCTIONAL DESCRIPTION</u></p> <p><u>POWER MANAGEMENT DIVISION</u></p> <p>Manage and execute economic dispatch and control of ML&amp;P generation, scheduling and control of electrical interchanges with other utilities, control and switching of the transmission and distribution facilities</p> <p><u>Power Dispatch Section</u></p> <p>Schedule and control generation and power interchanges, control and switch transmission and distribution facilities</p> <p><u>Distribution Section</u></p> <p>Control and switch sub-transmission and distribution facilities</p>		

MUNICIPALITY OF ANCHORAGE

Utility	Division	Budget Year
<p>MUNICIPAL LIGHT &amp; POWER</p> <p><u>OBJECTIVES AND TASKS</u></p> <ol style="list-style-type: none"> <li>1. OPERATE CONTINUOUS LINE AND GENERATION DISPATCH CENTER                             <ul style="list-style-type: none"> <li>- Dispatch for system safety and reliability</li> <li>- Improve economic selection of generation</li> <li>- Improve centralized control of generation</li> </ul> </li>   <li>2. ACT AS SOUTHERN AREA CONTROLLER FOR ALASKA INTERTIE                             <ul style="list-style-type: none"> <li>- coordinate interchange schedules of AEGT, CEA, MEA &amp; HEA</li> <li>- Continue to develop and improve operating procedures</li> <li>- Develop area-wide outage restoration contingency plans</li> </ul> </li>   <li>3. IMPLEMENT BENEFICIAL WHOLESALE POWER TRANSACTIONS                             <ul style="list-style-type: none"> <li>- Negotiate power sales and interchange agreements with other utilities</li> <li>- Computerize accounting and billing of wholesale power transactions</li> <li>- Negotiate and schedule spot economy energy sales</li> </ul> </li>   <li>4. IMPROVE DISPATCHER PROFICIENCY                             <ul style="list-style-type: none"> <li>- Conduct familiarization visits to other dispatch centers</li> <li>- Utilize UAF and GVEA facilities for outage simulation training</li> <li>- Develop dynamic simulator</li> </ul> </li> </ol>		<p>1989</p>

MUNICIPALITY OF ANCHORAGE

Utility	Division	Budget Year
MUNICIPAL LIGHT & POWER		1989
<p data-bbox="205 321 569 349"><u>FUNCTIONAL DESCRIPTION</u></p> <p data-bbox="205 418 472 446"><u>FINANCE DIVISION</u></p> <p data-bbox="205 483 1816 544">Provides full line of financial services including budget, accounting, and rates and tariffs to the General Manager and other Divisions</p> <p data-bbox="304 613 751 641"><u>Planning and Budget Section</u></p> <p data-bbox="304 678 1831 738">Responsible for financial forecasting, financial modeling, bond sale activities and the yearly budget submissions</p> <p data-bbox="304 776 716 803"><u>Rates and Tariffs Section</u></p> <p data-bbox="304 841 1816 901">Participates in regulatory activities such as tariff revisions, revenue requirements, cost of service and intervenes on other activities before the APUC</p> <p data-bbox="304 938 604 966"><u>Accounting Section</u></p> <p data-bbox="304 1003 1915 1096">Responsible for the financial record keeping of the utility in the manner prescribed by the Federal Energy Regulatory Commission, the Alaska Public Utilities Commission, and generally accepted accounting principles</p>		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division FINANCIAL SERVICES	Budget Year 1989
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OBJECTIVES AND TASKS

1. DECENTRALIZED FINANCIAL SYSTEM
  - Support the implementation of a decentralized financial system
  
2. PROVIDE ACCURATE AND TIMELY FINANCIAL AND ACCOUNTING INFORMATION
  - Review management financial reporting requirements
  - Revise and/or prepare reports necessary to meet the requirements
  - Streamline in-house generated financial reports
  
3. EDUCATE ML&P PERSONNEL ON REGULATORY ISSUES
  - Conduct training sessions on interpretation of specified tariff sections
  
4. UPGRADE ELECTRONIC SPREADSHEETS TO EVALUATE REGULATORY FINANCIAL POSITION
  - Enhance cost of service allocation model for use with year end data
  - Modify standardized formats to facilitate current and updated revenue requirement studies
  
5. PROVIDE TIMELY RESPONSE TO FEDERAL AND STATE REGULATORY DECISIONS
  - Monitor federal and state regulatory proceedings
  - Plan the extent of regulatory involvement to minimize the need for overtime
  - Revise tariffs as required during the year

Utility MUNICIPAL LIGHT & POWER	Division FINANCIAL SERVICES	Budget Year 1989
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OBJECTIVES AND TASKS - CONTINUED

6. PRODUCE TIMELY BUSINESS PLANS AND BUDGETS

- Define ML&P's budget policies and strategies
- Provide budget guidance to division managers throughout the year
- Coordinate divisional input to the annual business plan and budgets during the first and second quarters
- Produce the annual business plan, operating and capital budgets during the second and third quarter
- Prepare management presentation packages on the budget during the third quarter
- Develop and implement long-range financial forecasts and reports

7. ADVISE MANAGEMENT ON FINANCIAL ALTERNATIVES FACING THE UTILITY

- Provide a yearly financial plan to division managers and the general manager
- Monitor the financial plan monthly and recommend alternatives to deviations
- Project results of various actions using financial modeling
- Implement approved controls to the financial plan

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division ENGINEERING	Budget Year 1989
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FUNCTIONAL DESCRIPTION

ENGINEERING DIVISION

Conducts system planning, analysis, design, prepares T & D system improvement budgets, does project management and provides support to the General Manager and other divisions.

Project Management and C.I.P. Budgeting Section

Under the direction of the Chief Engineer, provides administrative support and overall management and direction of the Chief Engineer, provides administrative support and overall management and direction to all sections. Has specific responsibility towards professional services contract administration; continuing property records-field data management; work order tracking and projects review; Engineering Division six-year C.I.P. budgeting; and special projects.

System Analysis and Protection Section

Provides for electrical system planning, design and protection including relaying and control for transmission and distribution system; substation and switchyard design; long-range transmission, distribution and generation planning; two-year transmission and distribution work plans; transmission, distribution and generation analysis; energy management/load research/conservation; forecasting and projections; and all system-user mapping.

Transmission/Distribution Line Design Section

Conducts designs for system improvements, relocations and major line extensions including transmission and distribution system improvement design; construction standard; material standard; right-of-ways and permitting; and plat reviews.

Customer Engineering Section

Provides engineering services to new customers including new service line extension design; minor and major system improvement design and NESC compliance; line extension coordination and customer contact; and centralized customer complaints.

MUNICIPALITY OF ANCHORAGE

Utility	Division	Budget Year
MUNICIPAL LIGHT & POWER	ENGINEERING	1989

OBJECTIVES AND TASKS

1. DESIGN TRANSMISSION AND DISTRIBUTION FACILITIES TO PROVIDE SERVICES FOR NEW AND EXISTING CUSTOMERS
  - Reconstruct generation plant 1 34.5KV ring bus
  - Install alternate 34.5KV feed into C.B.D.
  - Upgrade intertie with Elmendorf AFB power plant
  - Reconstruct a portion of the Eklutna 115KV transmission line
  - Construct 12.47KV distribution feeders
  - Automation of key 12.47KV distribution feeders
  - Acquire substation 21 and 22 sites
  - Construct street lighting to meet community needs
  - Continue improvement to S.C.A.D.A. System
  - Continue conversion of 34.5KV loads in the port dock and C.B.D. areas
  - Construct new distribution system to serve Ship Creek dock
  - Construct distribution system to serve new Alaska Native Hospital
  
2. PROMOTE SAFETY CONSCIOUSNESS IN DESIGN OF TRANSMISSION AND DISTRIBUTION FACILITIES
  - Utilize feedback from safety officer and work crews
  - Ongoing program to remedy NESC violations
  - Review of material and construction standards
  
3. PROMOTE UTILITY COORDINATION PROGRAM
  - Support participation in joint trenching
  - Support municipal underground utility placement standards
  - Support compatible geographic information system development

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division ENGINEERING	Budget Year 1989
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OBJECTIVES AND TASKS - Continued

4. DEVELOP AND IMPLEMENT A PROGRAM FOR ENGINEERING DESIGN WORK EFFICIENCY
  - Develop a design manual (independent of engineering manual)
  - Provide a feedback system to measure the success of the program, and to update design standards
  
5. IMPROVE AREA AND STREET LIGHTING DESIGN PROCESS
  - Define responsibility between ML&P and Public Works
  - Use of computer aided design of area and street lighting
  - Ongoing updates of street light maps
  - Continue to improve design of street light systems
  
6. COMPLY WITH REGULATORY LOAD RESEARCH REQUIREMENTS AND CONTINUE SYSTEM STUDIES
  - Replace obsolete load research equipment
  - System load forecast by voltage level's
  - Perform fault studies on transmission and distribution systems
  - Automate system analysis data base through interface with C.P.R. System
  
7. REVIEW AND EVALUATE THE EXISTING SYSTEM PROTECTIVE DEVICES
  - Update impedance diagrams
  - Conduct load flow and short circuit studies
  - Catalog existing devices
  - Conduct a fault duty check on existing equipment



Utility	Division	Budget Year
MUNICIPAL LIGHT & POWER	ENGINEERING	1989
<p>OBJECTIVES AND TASKS - CONTINUED</p> <p>8. INTEGRATE COMPUTER AIDED DESIGN CAPABILITIES INTO DESIGN PROCESS</p> <ul style="list-style-type: none"> <li>- Develop standard construction assemblies for drawings</li> <li>- Modify existing software programs to accept standards</li> <li>- Format C.A.D. output to HP 3000 input requirements</li> <li>- Interface to C.P.R. System</li> </ul> <p>9. UPDATE MATERIAL AND CONSTRUCTION STANDARDS</p> <ul style="list-style-type: none"> <li>- Research industry standards</li> <li>- Improve vendor information channels</li> <li>- Review standards for assembly efficiency</li> <li>- Utilize computerized drafting</li> </ul> <p>10. CONTINUE PRODUCTION OF COMPUTER DRAWN DISTRIBUTION MAPS</p> <ul style="list-style-type: none"> <li>- Distribution Maps</li> <li>- Substation Feeder Maps</li> </ul> <p>11. UPDATE TEN-YEAR LONG-RANGE PLAN FOR ML&amp;P GENERATION, TRANSMISSION AND DISTRIBUTION REQUIREMENTS</p> <p>12. IMPROVE CONSTRUCTION ESTIMATING PROCESS</p> <ul style="list-style-type: none"> <li>- Develop further standardization</li> <li>- Conduct work order reviews during construction in progress</li> <li>- Utilize information review and construction feedback system</li> </ul>		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division GENERATION	Budget Year 1989
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FUNCTIONAL DESCRIPTION

GENERATION DIVISION

Responsible for the planning, engineering, operation, maintenance, and installation of equipment concerned with the Utility's power production.

Plant #1 Crew Section

Operates and maintains power production equipment and facilities on a 24-hour basis

Plant #2 Crew Section

Operates and maintains power production equipment and facilities on a 24-hour basis

Electrical Crew Section

Engineers, installs and maintains the Generation Division control systems, and production plant electrical services

Heavy Mechanical Crew Section

Performs overhauls and major maintenance of the Generation Division power production equipment, refurbishment of turbine parts and new construction

Utility MUNICIPAL LIGHT & POWER	Division GENERATION	Budget Year 1989
<p>OBJECTIVES AND TASKS</p> <ol style="list-style-type: none"> <li>1. CONTINUE AN ACTIVE MAINTENANCE PROGRAM TO OBTAIN THE BEST RELIABILITY AND EFFICIENCY OF POWER PRODUCTION EQUIPMENT                             <ul style="list-style-type: none"> <li>- Maintain high level of reliability/availability by providing good quality of maintenance</li> <li>- Enhance in-house repair capability to improve utilization of existing manpower, equipment reliability, and efficiency</li> </ul> </li>   <li>2. PROMOTE RELIABILITY, AVAILABILITY AND EFFICIENCY WITH POWER PRODUCTION EQUIPMENT IMPROVEMENTS                             <ul style="list-style-type: none"> <li>- Improve predictive/preventative maintenance capability</li> <li>- Improve on power production equipment documentation processing procedures</li> <li>- Provide black start capability at Plant II</li> <li>- Improve anti-icing and air filtration of older units</li> <li>- Install water conservation equipment</li> <li>- Continue investigation of alternative types of generation</li> <li>- Improve combined cycle and simple cycle efficiency</li> <li>- Improve facility to meet new safety, seismic and fire protection standards</li> <li>- Improve turbine-generator controls and automated data gathering</li> <li>- Improve SCADA equipment</li> <li>- Improve communication equipment between facilities</li> </ul> </li>   <li>3. SECURE RELIABLE FUEL SUPPLIES                             <ul style="list-style-type: none"> <li>- Continue with the emergency fuel supply improvements as required</li> <li>- Investigate gas storage alternatives</li> <li>- Investigate alternate energy/fuel sources</li> </ul> </li> </ol>		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division OPERATIONS	Budget Year 1989
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FUNCTIONAL DESCRIPTION

OPERATIONS DIVISION

Provides construction, maintenance, and operation of the transmission and distribution systems, contract administration of contracted projects and personnel, facility and grounds maintenance, vehicle maintenance and repair, and warehousing of construction and maintenance material. Provides support to the General Manager as well as other divisions.

Line Section

Provides the maintenance and operational personnel necessary to complete the construction, maintenance and operation of the transmission and distribution system, provides personnel for the customer service division.

Contract Section

Provides the contract administration and quality control of construction projects and supervision of contracted personnel. Provides Construction Assistance Contracts in order to supplement the completion of transmission, distribution and substation projects.

Technical Services Section

Provides the technical personnel necessary to complete electrical metering, substation operation and maintenance, transformer repair and warehousing, radio installation and maintenance, building maintenance and repair, and field locating of underground distribution.

Warehouse/Vehicle Maintenance Section

Provides the storage and issuance of construction and maintenance utility material. Provides the maintenance and repair of all utility department vehicles.

Utility MUNICIPAL LIGHT & POWER	Division OPERATIONS	Budget Year 1989
<p><u>OBJECTIVES AND TASKS</u></p> <ol style="list-style-type: none"> <li>1. IMPROVE RELIABILITY AND REDUCE SERVICE INTERRUPTIONS THROUGH ONGOING INSPECTION AND PREVENTIVE MAINTENANCE PROGRAMS <ul style="list-style-type: none"> <li>- Maintain the pilot wire system</li> <li>- Annually inspect and maintain the CBD vault-duct system</li> <li>- Annual tree trimming</li> <li>- Maintain the SCADA System</li> <li>- Annual inspection and maintenance of distribution system</li> <li>- Preventive maintenance of substations and 115KV switch yards</li> <li>- Continue comprehensive meter audit program</li> <li>- Continue system inspection program, using infrared and x-ray technologies</li> </ul> </li>   <li>2. PROVIDE RELIABLE FLEET SERVICE, AND VEHICLE MAINTENANCE <ul style="list-style-type: none"> <li>- Perform annual IM Inspections on all vehicles</li> <li>- Continue annual vehicle safety inspections</li> <li>- Continue to provide reliable vehicles, which minimize costly down time</li> </ul> </li>   <li>3. PROVIDE IMPROVED STREET LIGHTING <ul style="list-style-type: none"> <li>- Continue the upgrade of older street lighting systems</li> </ul> </li>   <li>4. PROVIDE EFFICIENT SYSTEM CONSTRUCTION <ul style="list-style-type: none"> <li>- Refine Comprehensive Construction and Scheduling Program</li> <li>- Annually monitor and evaluate: <ul style="list-style-type: none"> <li>- Unit Price Contract</li> <li>- Expedite Bid Program</li> </ul> </li> <li>- Provide effective reliable construction feedback and tracking system</li> </ul> </li> </ol>		

MUNICIPALITY OF ANCHORAGE

Utility	Division	Budget Year
MUNICIPAL LIGHT & POWER	OPERATIONS	1989

OBJECTIVES AND TASKS - CONTINUED

5. PROVIDE EFFECTIVE SYSTEM COMMUNICATIONS
  - Continued maintenance of intertie microwave system
  - Improved radio repair facility
  - Annual inspection and maintenance of all mobile and portable radios
  - Provide reimbursable cost effective repair service to other utilities
  
6. PROVIDE COST EFFECTIVE FACILITY MAINTENANCE UTILITY WIDE
  - Annually inspect facility heating and cooling system
  - Improve efficiency of facility contracts
  - Continued building maintenance

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division CUSTOMER SERVICES	Budget Year 1989
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FUNCTIONAL DESCRIPTION

CUSTOMER SERVICE DIVISION

Provides full line of customer services for electric customers within our service area for the General Manager and other divisions.

Customer Services Section

Responsible for customer contact for establishing, maintaining, terminating electrical service including telephone orders, mail orders, personal contact, for connects, disconnects, cash receipts and customer record maintenance.

Billing Section

Responsible for the timely scheduling and accurate billing of customers accounts, and data entry and verification of service orders.

Credit and Collections Section

Responsible for the handling of the credit and collections activity in accordance with our tariff, Alaska Statutes, and Fair Credit practices.

Meter Services Section

Responsible for meter connects, disconnects and accurate and timely meter reading.

MUNICIPALITY OF ANCHORAGE

Utility	Division	Budget Year
MUNICIPAL LIGHT & POWER	CUSTOMER SERVICES	1989

OBJECTIVES AND TASKS

1. BILLING, COLLECTION AND CUSTOMER SERVICES

- Promote excellent public relations
- Refine the billing function for producing accurate and timely bills
- Analyze customer records for billing accuracy
- Analyze document retention schedules
- Maintain high collections indexes while providing excellent customer services

2. METER SERVICES

- Identify and initiate the replacement of failing meters and equipment
- Restructure meter reading for efficiency
- Study and evaluate new technologies and alternatives for metered service

3. PROCEDURAL IMPROVEMENTS

- Review and improve security requirements
- Develop job standards requirements
- Enhance the employee development program
- Review policies, procedure and tariff for compliance and possible improvements



MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division	Budget Year 1989
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WORKFORCE PROJECTIONS

<u>DIVISIONS</u>	1988 Revision	1989	1990	1991	1992	1993	1994
ADMINISTRATION	12	12	12	12	12	13	13
SYSTEMS & COMMUNICATIONS	13	14	14	14	15	15	16
GENERATION	42	42	42	42	42	42	42
CUSTOMER SERVICE	36	37	37	37	37	37	37
FINANCIAL SERVICES	15	17	18	18	18	19	19
POWER MANAGEMENT	9	9	10	10	11	11	11
OPERATIONS	44	44	45	45	45	46	46
ENGINEERING	<u>23</u>	<u>23</u>	<u>23</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>25</u>
SUB-TOTAL	<u>194</u>	<u>198</u>	<u>200</u>	<u>202</u>	<u>204</u>	<u>207</u>	<u>209</u>
NECA SUMMER TEMPS	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>
TOTAL	<u>215***</u>	<u>219</u>	<u>221</u>	<u>223</u>	<u>225</u>	<u>228</u>	<u>230</u>

\*\*\* Includes 9 executives, 47 non-represented personnel and 138 IBEW personnel

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division	Budget Year 1989
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FACTORS DRIVING THE UTILITY

1. 1988 kWh sales are projected at 1.6% below 1987
2. kWh sales for 1989 will remain the same as 1988, and remain fairly constant in future years
3. Municipal governments will have lower budgets
4. Environmental regulations will cause increased cost in electric service
5. New construction activity will be minimal for the budget period
6. Consumers will continue to expect low cost reliable service

Utility	Division	Budget Year
MUNICIPAL LIGHT & POWER		1989
<p data-bbox="197 345 520 373"><u>PLANNING ASSUMPTIONS</u></p> <p data-bbox="289 410 1864 475">The following assumptions have been used in developing ML&amp;P's 1989 - 1994 long-range plans. They have been developed from the best data available at this time.</p> <ol data-bbox="275 508 1879 1222" style="list-style-type: none"> <li>1. kWh sales for 1989 will stabilize</li> <li>2. Fuel costs for 1989 will increase by approximately 7%</li> <li>3. No contractual payroll or benefit increases scheduled for 1989</li> <li>4. Intra-governmental charges to utility will increase slightly in 1989</li> <li>5. Expenses excluding labor will be increased by a 5% inflation factor</li> <li>6. Revenue bond interest will be 8.5% for 30 year bonds</li> <li>7. Ml&amp;P's interest income will be based on 6.5% short-term</li> <li>8. Using financial modeling to project future rates, calculations will be made assuming no less than a 1.6 debt service cover</li> <li>9. Purchase of Eklutna included in budget</li> <li>10. Utility will not pay a revenue distribution.</li> <li>11. Cost for maintenance will increase as net plant gets older</li> </ol>		

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division	Budget Year 1989
RECONCILIATION FROM 1988 PRO-FORMA TO 1989 BUDGET		
1988 PRO-FORMA BUDGET	<u>COST</u> \$70,617,000	<u>POSITIONS</u>
<u>RECONCILIATION</u>		
1. Personnel cost	\$ 264,000	4
2. Professional services increase because of need to prepare an equity management plan and prime mover consulting services	300,000	
3. Travel	14,000	
4. Depreciation increase	547,000	
5. Interest expense reduced because of bond retirements and no new bonding	(191,000)	
6. MUSA - reflects a 5.5% increase in mill rate	67,000	
7. IGC's increase because of insurance	37,000	
8. Fuel - decreases because of lower sales for resale	(2,366,000)	
9. All other expenses increase because of inflation and general maintenance activity is increasing with age of plant and decrease in construction.	<u>585,000</u> \$ (743,000)	
<u>1989 PROPOSED BUDGET</u>	\$69,874,000	

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division					Budget Year 1989
<u>RATIO</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
Current Ratio	1.1/1	2.1/1	2.8/1	3.0/1	2.2/1	2.1/1
Long Term Debt/Gross Plant	86.1/1	90.9/1	98.7/1	94.7/1	88.7/1	84.2/1
Debt/Equity Ratio	81.9/19	83.0/17	93.0/7	92.0/8	80.2/19.8	80.5/19.5
Operating Ratio controllable Cost	60.0/1	63.0/1	65.1/1	63.5/1	63.9/1	63.1/1
<u>OPERATING STATEMENT</u>						
Rate of Return - Rate Base	8.7 %	8.5 %	7.9 %	8.0 %	9.9 %	10.0 %
Bond Debt Coverage	1.59	1.46	1.47	1.41	1.51	1.51
Operating Margin	25.1 %	22.0 %	19.9 %	19.8 %	19.5 %	18.9 %
Net Profit Margin (Regulatory)	6.2 %	(1.7)%	(1.6)%	(2.6)%	(.5)%	(1.9)%

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division						Budget Year 1989
STATISTICAL AND PERFORMANCE TRENDS							
	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
Average Number of Customers*	19,045	21,932	30,558	30,317	29,781	29,305	29,305
Retail Sales (MWH)	636,818	670,030	798,736	817,214	789,231	776,703	776,603
Resale (MWH)	15,970	22,058	182,045	170,095	175,476	82,500	28,000
Total Sales (MWH)	652,788	692,088	980,781	987,309	964,707	859,103	804,603
Total Operating Expenses	\$ 28,248	\$ 30,641	\$ 44,140	\$ 51,156	\$ 49,418	\$ 53,199	\$ 53,838
Operating Expense per Retail Kilowatt Hour	4.4	4.6	5.5	6.3	6.3	6.8	6.9
% Change	29.4%	4.5%	19.6%	14.5%	0%	7.9%	1.5%
Total Expense per Customer	\$ 1,894	\$ 1,954	\$ 1,985	\$ 2,255	\$ 2,255	\$ 2,410	\$ 2,434
% Change	27.9%	3.2%	1.6%	13.6%	0%	6.9%	1.0%
Number of Employees (Actual at Year End)	149	182	206	213	203	194	198
Customers per Employee	128	121	148	142	147	151	148
Electric Plant in Service (000)	\$ 96,444	\$141.100	\$150,559	\$155,820	\$154,311	\$154,000	\$154,000
Electric Plant per Customer	\$ 5,064	\$ 6,434	\$ 4,927	\$ 5,140	\$ 5,182	\$ 5,255	\$ 5,255
*Number of Billings Processed Shown in 1987 and Later Years							

MUNICIPALITY OF ANCHORAGE

Utility	MUNICIPAL LIGHT & POWER				Division	Budget Year
	1989	1990	1991	1992	1993	
<u>Growth Factors</u>						
Billings	29,305	29,390	29,500	29,700	30,000	
kWh Sales Retail (MWH)	776,603	779,000	781,700	787,000	795,700	
kWh Sales for Resale (MWH)	28,000	20,000	10,000	-0-	-0-	
Bond Sales (000)	-0-	-0-	-0-	-0-	2,400	
<u>Personnel Increases</u>						
Management	0	0	0	0	1	
Systems & Communication	1	0	0	1	0	
Production	0	0	0	0	0	
Customer Service	1	0	0	0	1	
Financial Services	2	1	0	1	0	
Power Management	0	1	0	1	0	
Operations	0	0	1	0	1	
Engineering	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	
Total	4	2	2	2	3	
REVENUE (000)	\$69,718	\$72,013	\$71,929	\$73,927	\$75,593	
EXPENSE (000)	\$70,949	\$70,709	\$70,913	\$71,279	\$71,767	
NET INCOME REGULATORY (000)	\$(1,231)	\$ 1,304	\$ 1,016	\$ 2,648	\$ 3,826	
Possible Rate Increases	6.2%	0	0	3.5%	0	
Projected DSC 1988 - 1.51	1.51	1.60	1.52	1.60	1.63	

MUNICIPALITY OF ANCHORAGE

Utility	Division	Budget Year
MUNICIPAL LIGHT & POWER		1989

1989 BUDGET IMPACTS

OPERATING

There are no major impacts in ML&P's 1989 operating budget. 1989 will be a year of ML&P continuing to hold the line on operating expenses. Minor expense increases will result from inflation increases. Assuming ML&P receives the rates requested in 1988, it is likely there will be no increase to base rates in 1989. However, it is possible that customer bills will increase in response to gas price increases from Enstar.

CAPITAL

ML&P's Capital Budget for 1989 and beyond is a continuation of the maintenance level of construction instituted by ML&P in 1986. Using the current budget assumptions, ML&P is not projecting any bond sales for construction until 1993 and will use operating cash for construction activities until that time. The budget starting in 1990 does contain contingency funds for ML&P's involvement with Bradley Lake and for a possible purchase of the Eklutna project from the Federal Government.

RATE CASE

ML&P is (9/8/88) currently awaiting final receipt of the APUC order identifying the final level of rates granted. If the rates granted are less than requested, the whole financial picture of ML&P is likely to change.



MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division		Budget Year 1989
Municipality of Anchorage Financial Data			
Line Item Description	Year: <u>1987</u> Actual	Year: <u>1988</u> Pro-Forma	Year: <u>1989</u> Budget
<u>STATEMENT OF REVENUE AND EXPENSES</u>			
<u>OPERATING REVENUES</u>			
4400-Residential Sales	\$12,703,654	\$13,300,000	\$14,524,000
4420-Commercial & Industrial	42,710,087	44,500,000	48,599,000
4440-Public Highway & Street Lighting	1,306,341	1,150,000	1,261,000
4450-Public Authority	196,399	50,000	200,000
4570-Sales for Resale	5,637,850	3,048,000	1,578,000
4491-COPA Contra Account	(1,224,360)	3,700,000	-0-
4510-Misc. Service Revenue	177,587	170,000	160,000
4540-Rent from Electric Property	84,931	125,000	85,000
4560-Miscellaneous Revenue	<u>1,582</u>	<u>50,000</u>	<u>-0-</u>
Total Operating Revenue	<u>\$61,594,071</u>	<u>\$66,093,000</u>	<u>\$66,407,000</u>
<u>OPERATING EXPENSE</u>			
Production Expense	\$24,198,707	\$27,536,000	\$25,470,000
Transmission Expense	416,638	343,000	390,000
Distribution Expense	5,753,972	5,541,000	5,650,000
Customer Account Expense	3,393,534	3,351,000	3,734,000
Customer Service & Information	237,637	229,000	241,000
Administrative & General Expense	3,658,374	3,469,000	3,749,000
9403-Depreciation	9,542,107	10,003,000	10,500,000
9404-Depreciation Contributed Plant	367,604	351,000	380,000
9405-Amort. Intangible Plant	307,725	308,000	308,000
9406-Amort. Plant Acquisition	61,571	61,000	61,000
9408-Municipal Utility Service Assmt.	1,479,748	1,788,000	2,698,000
9430-Amort. Loss on Refunded Debt.	<u>-0-</u>	<u>219,000</u>	<u>657,000</u>
Total Operating Expense	<u>\$49,417,617</u>	<u>\$53,199,000</u>	<u>\$53,838,000</u>
Operating Income	\$12,176,454	\$12,894,000	\$12,569,000

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division		Budget Year 1989
Municipality of Anchorage Financial Data			
Line Item Description	1987 Year: <u>Actual</u>	1988 Year: <u>Pro-Forma</u>	1989 Year: <u>Budget</u>
<u>NON-OPERATING REVENUE</u>			
4190-Interest	\$ -0-	\$ -0-	\$ -0-
4191-Interest From Operating Reserve	318,147	345,000	345,000
4192-Interest From Bond Redemption Cash	2,069,706	2,071,000	2,071,000
4193-Interest From General Cash Pool	825,921	1,295,000	505,000
4194-Interest From Debt Service Account	364,606	350,000	350,000
4210-Misc. Non-Operating Revenue	34,859	40,000	40,000
Total Non-Operating Revenue	\$ 3,613,239	\$ 4,101,000	\$ 3,311,000
<u>NON-OPERATING EXPENSE</u>			
9426 Community	\$ -0-	\$ 45,000	\$ 45,000
9427-Interest on Bonded Debt	16,950,674	16,852,000	16,741,000
9428-Amortization of Bond Discount	475,548	480,000	460,000
9429-Amortization of Bond Sale Cost & Ins.	262,055	245,000	245,000
9431-Other Interest Expense	46,323	60,000	-0-
Total Non-Operating Expense	\$ 17,734,600	\$ 17,682,000	\$ 17,491,000
Non-Operating Income (Loss)	\$ (14,121,361)	\$ (13,581,000)	\$ (14,180,000)
Net Income (Loss)	\$ (1,944,907)	\$ (687,000)	\$ (1,611,000)
Add: Depreciation of Contributed Plant	367,604	330,000	380,000
Net Income (Regulatory)	\$ (1,577,303)	\$ (357,000)	\$ (1,231,000)
Less: Depreciation of Contributed Plant	(367,604)	(330,000)	(380,000)
Add: Restricted Interest Income	782,124	540,000	150,000
Net Income Governmental Financial Reporting	\$ (1,162,783)*	\$ (147,000)	\$ (1,461,000)

\* 1987 Gain of \$1,517,644 due to early extinguishment of Debt not included.

CIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division		Budget Year 1989
Municipality of Anchorage Financial Data			
Line Item Description	Year: 1987 Actual	Year: 1988 Pro-Forma	Year: 1989 Budget
<u>STATEMENT OF SOURCES AND USES OF CASH</u>			
Sources of Cash Funds			
Net Income	\$ (1,162,783)	\$ (147,000)	\$ (1,461,000)
Extraordinary Gain	1,517,644	-	-
Depreciation	9,909,711	10,354,000	10,880,000
Amortized Bond Discount	475,548	480,000	460,000
Amortization & Acquisition Adjustments	369,296	369,000	369,000
Amortization of Refunded Debt	-	219,000	657,000
Net (Increase) Decrease in Current Assets	(663,236)	-	-
Net Increase (Decrease) in Current Liabilities	2,258,899	-	-
Contributions	<u>1,623,714</u>	<u>600,000</u>	<u>1,500,000</u>
TOTAL SOURCES	\$14,328,793	\$11,875,000	\$12,405,000
Uses of Cash Funds			
Additions to Plant	\$ 8,769,744	\$10,000,000	\$14,000,000
Debt Retirement Long Term	1,600,000	1,710,000	1,835,000
Retire Other Debt	686,800	477,000	-
Increase in Prepaids	<u>(826,879)</u>	<u>-</u>	<u>-</u>
TOTAL USES	\$10,229,665	\$12,187,000	\$15,835,000
Net Increase (Decrease) In Cash Funds	\$ 4,099,125	\$ (312,000)	\$ (3,430,000)
Cash Balance Jan. 1	\$46,915,349	\$51,014,474	\$50,702,474
Cash Balance Dec. 31	\$51,014,474	\$50,702,474	\$47,272,474
Detail of Cash Balance			
Equity In General Cash Pool	\$21,228,933	\$26,119,889	\$25,689,889
Equity In Construction Cash Pool	\$ 9,202,956	\$ 4,000,000	\$ 1,000,000
Revenue Bond Reserve	<u>\$20,582,585</u>	<u>\$20,582,585</u>	<u>\$20,582,585</u>
TOTAL CASH BALANCE DEC. 31	\$51,014,474	\$50,702,474	\$47,272,474

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division		Budget Year 1989
Municipality of Anchorage Financial Data			
Line Item Description	Year: 1987 Actual	Year: 1988 Pro-Forma	Year: 1989 Budget
<u>NET PROFIT MARGIN</u>			
Net Income Governmental Reporting	\$(1,162,783)	\$ (147,000)	\$(1,461,000)
Operating Revenues	\$61,594,071	\$66,093,000	\$66,407,000
Net Profit Margin Governmental Reporting	(1/9%)	(.22%)	( 2.2%)
Net Income Regulatory	\$(1,577,303)	\$ (357,000)	\$(1,231,000)
Operating Revenues	\$61,594,071	\$66,093,000	\$66,407,000
Net Profit Margin Regulatory	(2.6%)	(.54%)	(1.9%)

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division		Budget Year 1989
Municipality of Anchorage Financial Data			
Line Item Description	Year: 1987 Actual	Year: 1988 Pro-Forma	Year: 1989 Budget
<p><u>DEBT SERVICE COVERAGE</u></p> <p>Income Available for Debt Service Coverage</p> <p>Debt Service Requirement</p> <p>Debt Coverage</p>	<p>\$26,068,697</p> <p>\$18,455,674</p> <p>1.41</p>	<p>\$27,937,000</p> <p>\$18,451,988</p> <p>1.51</p>	<p>\$27,786,000</p> <p>\$18,450,777</p> <p>1.51</p>

MUNICIPALITY OF ANCHORAGE

Utility	Division					Budget Year 1989
MUNICIPAL LIGHT & POWER						
OPERATING BUDGET						
<u>EXPENSE ITEMS</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	
Personnel Costs	\$ 7,349,229	\$ 7,793,553	\$ 8,543,171	\$ 8,500,000	\$ 8,675,000	
Benefit Costs	3,707,548	3,795,172	4,322,844	4,323,000	4,412,000	
Professional Services	361,036	377,154	620,648	700,000	900,000	
Travel	108,000	157,412	69,700	53,000	67,000	
Depreciation & Amortization	8,578,487	9,548,166	10,279,007	10,942,000	11,904,000	
Interest	16,122,704	17,207,361	17,734,000	17,637,000	17,446,000	
MUSA	<u>870,427</u>	<u>1,024,755</u>	<u>1,479,748</u>	<u>1,787,000</u>	<u>2,698,000</u>	
Sub Total	<u>\$37,097,431</u>	<u>\$39,903,573</u>	<u>\$43,049,118</u>	<u>\$43,942,000</u>	<u>\$46,102,000</u>	
Intergovernmental Charges						
Finance Department	\$ 460,979	\$ 544,765	\$ 507,883	\$ 752,000	\$ 750,000	
Information Systems Department	9,951	13,553	149,158	19,000	20,000	
Enterprise Activities	192,409	200,460	189,908	50,000	187,500	
Public Utilities Customer Service	257,146	216,451	48,072	-0-	-0-	
Public Utilities Credit and Collections	705,209	674,345	-0-	-0-	-0-	
Human Resources Department	134,880	151,072	159,922	154,000	154,000	
Self Insurance	460,690	830,600	735,812	681,000	700,000	
Other Intergovernmental Charges	<u>431,741</u>	<u>229,838</u>	<u>272,645</u>	<u>230,000</u>	<u>211,500</u>	
Sub Total IGC	\$ 2,653,005	\$ 2,861,084	\$ 2,063,400	\$ 1,886,000	\$ 2,023,000	
Purchased Power	\$ 1,552,833	\$ 1,423,851	\$ 1,570,996	\$ 1,750,000	\$ 1,552,000	
Fuel	17,926,696	22,182,030	18,331,955	20,685,000	19,052,000	
Other Expenses(materials, supplies)	<u>2,553,648</u>	<u>1,992,344</u>	<u>2,136,748</u>	<u>2,618,000</u>	<u>2,600,000</u>	
<b>TOTAL EXPENSES</b>	<b>\$61,783,613</b>	<b>\$68,362,882</b>	<b>\$67,152,217</b>	<b>\$70,881,000</b>	<b>\$71,329,000</b>	

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER	Division					Budget Year 1989	
<u>1989 CAPITAL IMPROVEMENT BUDGET FINANCIAL SUMMARY</u>							
<u>PROJECT TITLE</u>	<u>TOTAL PROJECT COST 1989</u>	<u>REVENUE BONDS</u>	<u>G. O. BONDS</u>	<u>OPERATIONS</u>	<u>STATE GRANTS</u>	<u>FEDERAL GRANTS</u>	
Steam Production	215	0	0	215	0	0	
Other Production	4,199	0	0	4,199	0	0	
Hydraulic Production	0	0	0	0	0	0	
Transmission	4,400	0	0	4,400	0	0	
Distribution	5,744	0	0	5,744	0	0	
General Plant	<u>3,355</u>	<u>0</u>	<u>0</u>	<u>3,355</u>	<u>0</u>	<u>0</u>	
TOTAL (000)	17,913	0	0	17,913	0	0	

MUNICIPALITY OF ANCHORAGE

MUNICIPAL LIGHT & POWER						BUDGET YEAR PROJECTS		Budget Year 1989
Project Category	Project Title	Location	Funding					
			Bonds G-GO Bonds R-Rev Bonds	Operations	Grants F-Federal S-State	Total		
Steam Production	Structures and Improvements	Plant 1 & 2	-0-	105	-0-	105		
	Boilers	Plant 1 & 2	-0-	110	-0-	110		
Prepared by _____ Date _____ Total			-0G -0R	215	-0F -0S	215		



Utility <u>MUNICIPAL LIGHT &amp; POWER</u>		BUDGET YEAR PROJECTS				Budget Year
Project Category	Project Title	Location	Funding			Total
			Bonds G-GO Bonds R-Rev Bonds	Operations	Grants F-Federal S-State	
Other Production	Structures and Improvements	Plant 1 & 2	-0-	485	-0-	485
	Fuel Handling and Storage	Plant 1 & 2	-0-	50	-0-	50
	Turbines and Generators	Plant 1 & 2	-0-	2,402	-0-	2,402
	Control Equipment	Plant 1 & 2	-0-	1,242	-0-	1,242
	Misc. Equipment	Plant 1 & 2	-0-R	20	-0-	20
Prepared by _____ Date _____ Total			-0-G -0-R	4,199	-0-F -0-S	4,199

MUNICIPALITY OF ANCHORAGE

BUDGET YEAR PROJECTS						Budget Year 1989
Utility <u>MUNICIPAL LIGHT &amp; POWER</u>						
Project Category	Project Title	Location	Funding			
			Bonds G-GO Bonds R-Rev Bonds	Operations	Grants F-Federal S-State	Total
Transmission	Station Equipment	Plant 1	-0-	300	-0-	300
	Overhead Lines	Anchorage to Homer	-0-	4,000	-0-	4,000
	Conversions	-	-0-	-0-	-0-	-0-
	Relocations	State Roads	-0-	50	-0-	50
		Muni Roads	-0-	50	-0-	50
Prepared by _____ Date _____ Total			-0- G -0- R	4,400	-0- F -0- S	4,400

BUDGET YEAR PROJECTS						Budget Year 1989	
Utility <u>MUNICIPAL LIGHT &amp; POWER</u>							
Project Category	Project Title	Location	Funding				
			Bonds G-GO Bonds R-Rev Bonds	Operations	Grants F-Federal S-State	Total	
Distribution	Land & Land Rights	-	-0-	-0-	-0-	-0-	
	Station Equipment	Substations	-0-	1,909	-0-	1,909	
	Overhead Lines	Throughout System	-0-	100	-0-	100	
	Underground Lines	Throughout System	-0-	2,220	-0-	2,220	
	Conversions	CBD	-0-	400	-0-	400	
	Relocations	State Roads		-0-	350	-0-	350
			Muni Roads	-0-	110	-0-	110
	Transformers/ Capacitors	Throughout System	-0-	250	-0-	250	
	Meters/Services	Throughout System	-0-	290	-0-	290	
	Street Lighting	Throughout System	-0-	115	-0-	115	
Prepared by _____ Date _____ Total			-0- G -0- R		-0- F -0- S	5,744	

MUNICIPALITY OF ANCHORAGE

BUDGET YEAR PROJECTS						Budget Year 1989
Utility <u>MUNICIPAL LIGHT &amp; POWER</u>						
Project Category	Project Title	Location	Funding			
			Bonds G-GO Bonds R-Rev Bonds	Operations	Grants F-Federal S-State	Total
General Plant	Structures and Improvements	Plant 1 & 2 Operations & Headquarters	-0-	853	-0-	853
	Stores/Tools/ Garage/Lab	Plant 1 & 2 Operations & Headquarters	-0-	526	-0-	526
	Furniture &	Plant 1 & 2 Operations & Headquarters	-0-	1,726	-0-	1,726
	Transportation	Plant 1 & 2 Operations & Headquarters	-0-	250	-0-	250
Prepared by _____ Date _____ Total			-0-G -0-R	3,355	-0F -0S	3,355

MUNICIPALITY OF ANCHORAGE

Utility MUNICIPAL LIGHT & POWER		Division									Budget Year 1989
CIP/CIP 1989-1994											
<u>PROJECT TITLE</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>BONDS</u>	<u>OPERATIONS</u>	<u>STATE GRANTS</u>	<u>FEDERAL GRANTS</u>	<u>TOTAL</u>
Steam Production	215	175	625	10	-0-	-0-	-0-	1,025	-0-	-0-	1,025
Other Production	4,199	5,212	4,859	5,262	2,568	3,581	3,166	22,515	-0-	-0-	25,681
Hydraulic Production	-0-	1,510	1,510	1,510	1,510	1,510	-0-	7,550	-0-	-0-	7,550
Transmission	4,400	120	120	740	440	140	-0-	5,960	-0-	-0-	5,960
Distribution	5,744	4,740	6,249	6,240	7,055	6,870	5,050	31,848	-0-	-0-	36,898
General Plant	<u>3,355</u>	<u>2,223</u>	<u>1,690</u>	<u>1,575</u>	<u>1,566</u>	<u>2,212</u>	<u>-0-</u>	<u>12,621</u>	<u>-0-</u>	<u>-0-</u>	<u>12,621</u>
Total (000)	17,913	13,980	15,053	15,337	13,139	14,313	8,216	81,519	-0-	-0-	89,735
<u>SOURCE OF FUNDING:</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>					<u>TOTAL</u>
Revenue Bonds	-0-	-0-	-0-	-0-	2,400	5,816					8,216
Operations	<u>17,913</u>	<u>13,980</u>	<u>15,053</u>	<u>15,337</u>	<u>10,739</u>	<u>8,497</u>					<u>81,519</u>
TOTAL FUNDING (000)	17,913	13,980	15,053	15,337	13,139	14,313					89,735

MUNICIPALITY OF ANCHORAGE

Utility <u>MUNICIPAL LIGHT &amp; POWER</u>			FUTURE CAPITAL PROJECTS				Budget Year 1989	
Project Category	Project Title	Location	BUDGET BY YEAR					
Steam Production	Structures and Improvements	Plant 1 & 2	115	415	-0-	-0-	-0-	
	Boilers	Plant 1 & 2	60	210	10	-0-	-0-	
Source of Funding:								
G.O. Bonds								
Revenue Bonds								
Operations			175	625	10	0	0	
State Grants								
Federal Grants								
Total			175	625	10	-0-	-0-	
Prepared by _____ Date _____								

Utility <u>MUNICIPAL LIGHT &amp; POWER</u>		FUTURE CAPITAL PROJECTS					Budget Year 1989	
Project Category	Project Title	Location	BUDGET BY YEAR					
Other Production	Structures and Improvements	Plant 1 & 2	340	240	240	250	250	
	Fuel Handling & Storage	Plant 1 & 2	300	-0-	1,250	-0-	1,250R	
	Turbines & Generators	Plant 1 & 2	2,454	3,119	2,765	2,031	1,916R 25	
	Control Equipment	Plant 1 & 2	2,093	1,475	1,007	287	140	
	Miscellaneous	Plant 1 & 2	25	25	-0-	-0-	-0-	
Source of Funding:			G.O. Bonds					
			Revenue Bonds				3,166	
			Operations	5,212	4,859	5,262	2,568	415
			State Grants					
			Federal Grants					
Prepared by _____ Date _____			Total	5,212	4,859	5,262	2,568	3,581

MUNICIPALITY OF ANCHORAGE

FUTURE CAPITAL PROJECTS

Budget Year  
1989

Utility MUNICIPAL LIGHT & POWER

Project Category	Project Title	Location	BUDGET BY YEAR					
Hydraulic Power Production	Eklutna	Eklutna	1,510	1,510	1,510	1,510	1,510	
Source of Funding:			G.O. Bonds					
			Revenue Bonds					
			Operations	1,510	1,510	1,510	1,510	1,510
			State Grants					
			Federal Grants					
Prepared by _____ Date _____			Total	1,510	1,510	1,510	1,510	1,510



Utility <u>MUNICIPAL LIGHT &amp; POWER</u>			FUTURE CAPITAL PROJECTS				Budget Year 1989	
Project Category	Project Title	Location	BUDGET BY YEAR					
Transmission	Station Equipment	Along Transmission System	-0-	-0-	-0-	300	-0-	
	Overhead Lines	-	-0-	-0-	-0-	-0-	-0-	
	Conversions	Transmission System	-0-	-0-	600	-0-	-0-	
	Relocations	State Roads	60	60	70	70	70	
		Municipal Roads	60	60	70	70	70	
Source of Funding:								
G.O. Bonds								
Revenue Bonds								
Operations			120	120	740	440	140	
State Grants								
Federal Grants								
Prepared by _____ Date _____			Total	120	120	740	440	140

MUNICIPALITY OF ANCHORAGE

Utility <u>MUNICIPAL LIGHT &amp; POWER</u>		FUTURE CAPITAL PROJECTS					Budget Year 1989	
Project Category	Project Title	Location	BUDGET BY YEAR					
Distribution	Land & Land Rights	New Substation Sites	-0-	575	-0-	-0-	-0-	
	Station Equipment	Substations and Plants	1,330	1,394	1,150	1,400-R 1,045	1,650R 1,045	
	Overhead Lines	Throughout System	50	200	150	50	50	
	Underground Lines	Throughout System	1,800	2,200	2,850	1,000R 1,400	1,000R 815	
	Conversions	Central Business District	400	600	600	600	600	
	Relocations	State Roads	120	130	140	150	150	
	Municipal Roads		120	130	140	150	150	
	Transformers/ Capacitors	Throughout System	300	500	650	700	750	
	Meters/Services	Throughout System	405	305	305	305	405	
	Street Lighting	Throughout System	215	215	255	255	255	
Source of Funding:			G.O. Bonds					
			Revenue Bonds			2,400	2,650	
			Operations	4,740	6,249	6,240	4,655	
			State Grants					
			Federal Grants					
Prepared by _____ Date _____			Total	4,740	6,249	6,240	7,055	
							6,870	

Utility <u>MUNICIPAL LIGHT &amp; POWER</u>		FUTURE CAPITAL PROJECTS					Budget Year 1989	
Project Category	Project Title	Location	BUDGET BY YEAR					
General Plant	Structures and Improvements	Plant 1 & 2	320	290	195	120	120	
	Stores/Tools/ Garage/Lab	Plant 1 & 2 and Headquarters Area	335	335	325	329	333	
	Furniture/ Communications	Plant 1 & 2 and Headquarters Area	1,272	794	799	826	1,513	
	Transportation	Plant 1 & 2 and Headquarters Area	296	271	256	291	246	
Source of Funding:			G.O. Bonds					
			Revenue Bonds					
			Operations	2,223	1,690	1,575	1,566	2,212
			State Grants					
			Federal Grants					
Prepared by _____ Date _____			Total	2,223	1,690	1,575	1,566	2,212