

STATE OF ALASKA

THE REGULATORY COMMISSION OF ALASKA

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Before Commissioners:

Robert M. Pickett, Chairman
Stephen McAlpine
Rebecca L. Pauli
Norman Rokeberg
Janis W. Wilson

In the Matter of the Tariff Revision Designated as)
TA453-1 Filed by ALASKA ELECTRIC LIGHT)
AND POWER COMPANY)

TA453-1

PREFILED DIRECT TESTIMONY OF DAVID A. GRAY

Q1. Please state your name and address.

A1. My name is David A. Gray. My business address is 2841 Mt. Rainier Dr. So., Seattle,
Washington 98144.

Q2. By whom are you employed?

A2. I am self-employed, doing business as Boswell & Associates, after having retired from
CH2M HILL in August 2014.

Q3. What was your position at CH2M HILL?

A3. I was a Vice President of the firm. I practiced as an Economist, primarily in energy and
utility matters. For the period 2008 through 2013, I was also Principal-in-Charge of
CH2M HILL's Downtown Seattle Office.

Q4. What is your educational background and work experience?

1 A4. My educational background and work experience is summarized in my resume in
2 Exhibit DAG-1.

3
4
5 Q5. Was the cost of service and rate study submitted by Alaska Electric Light and
6 Power Company (AELP) in this docket prepared by you or under your direction?

7 A5. Yes.

8
9 **BACKGROUND**

10 Q6. Have you previously testified before the Regulatory Commission of Alaska or its
11 predecessor, the Alaska Public Utilities Commission?

12
13 A6. I appeared before the Alaska Public Utilities Commission on behalf of AELP in rate
14 cases during the 1980s. That included testifying on cost of service and rate studies
15 submitted to the APUC in Dockets U-81-044, U-84-050, and U-85-049. Also on AELP's
16 behalf, I testified in APUC Docket U-83-016 regarding AELP's application for an
17 electric heat moratorium. Separately, I appeared on behalf of Golden Valley Electric
18 Association in Dockets U-85-003 and U-92-011 regarding power requirements issues
19 associated with that utility's need for new power generation resources. Most recently, I
20 testified on AELP's cost of service study and rate design proposal in Regulatory
21 Commission of Alaska Docket U-10-029.

1 Q7. What is your assignment in this proceeding?

2 A7. AELP asked me to update its cost of service and rate study for use in this proceeding and
3 respond to any questions about the study. The analysis in the study is based on operating
4 and financial information provided by AELP including data separately filed with the
5 Commission in this docket.
6

7
8 COST OF SERVICE APPROACH

9 Q8. Please describe the methods employed in preparation of the cost of service study.

10 A8. The methods are essentially the same as those CH2M HILL originally developed for
11 AELP in 1984 for use in that year's rate case (Docket No. U-84-50). Since that time,
12 AELP has updated the analyses in each succeeding rate case using the same general
13 approach. That included the cost of service study submitted as part of Docket U-10-029.
14

15
16 The method employed by AELP is a fully allocated, seasonal, average cost of service
17 study. It generally complies with the tenets of the National Association of Regulatory
18 Commissioner's *Electric Utility Cost Allocation Manual*, January 1992, and the earlier
19 version of the manual published in 1973. It also complies with requirements for cost of
20 service methods as specified in the Alaska Administrative Code (3 AAC 48.540).
21

22
23 Q9. Have you made any changes to the general methods used to allocate costs in the
24 current cost of service study?
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1 A9. Yes, we made two changes. First, we changed the way we classify costs associated with
2 three AELP hydroelectric resources: the Snettisham Hydroelectric Project, the Lake
3 Dorothy Hydroelectric Project and the Gold Creek Hydroelectric Project. Second, we
4 changed the allocation factor used to allocate costs associated with the transmission
5 system within AELP's service territory. As will be seen, the two changes tend to offset
6 one another. That is, the first change allocates more costs to customer classes on the
7 basis of their respective energy requirements. As a result, relatively more costs are
8 allocated to high load factor customer classes and relatively less costs are allocated to low
9 load factor customers. The second change has the opposite effect: it allocates more costs
10 to customer classes on the basis of their respective demand requirements. As a result,
11 relatively more costs are allocated to low load factor customer classes and relatively less
12 costs are allocated to high load factor customers.
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16 **Q10. Please describe changes that you made in classifying costs associated with the three**
17 **hydroelectric projects.**

18 A10. AELP previously classified all output delivered from its hydroelectric plants based on
19 approximately a 90/10 ratio of variable to fixed costs for output from thermal resources.
20 That is, 90 percent of hydro production costs were classified as energy-related and 10
21 percent were classified as demand related. In addition, costs associated with transmission
22 lines that integrate hydropower production into AELP's system were classified as 100
23 percent demand-related.
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1 For AELP's 2015 cost of service study, we reclassified costs associated with Snettisham,
2 Lake Dorothy, and Gold Creek as 100 percent energy-related. That included the costs for
3 transmission needed to integrate power from Snettisham and Lake Dorothy into the
4 AELP system. Gold Creek does not have a separate line for integrating its output into
5 AELP's general transmission system.
6

7
8 **Q11. What was the basis for the previous 90/10 split in classifying costs for the**
9 **hydroelectric facilities?**

10 A11. Essentially all costs associated with hydroelectric facilities are fixed. The challenge was
11 to establish a way to break those costs between energy- and demand-related
12 classifications. We did so based on the costs of a new generation resource that AELP
13 might add once its firm loads exceed economic hydroelectric resources available for
14 development. The 90/10 split was based on the fixed vs. variable cost ratio of a
15 hypothetical new diesel generating unit.
16

17
18 **Q12. Why did you make a change to the classification of cost associated with the three**
19 **hydroelectric projects?**

20 A12. We believe that the change improves the way costs are allocated. There are three inter-
21 related rationales for the change. First, power from Snettisham and Lake Dorothy are
22 subject to interruption due to the vulnerability of the transmission power lines associated
23 with delivering their power output to the AELP service area. Except for the submarine
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1 cables at Taku Inlet, those lines are single-contingency lines that are subject to outages
2 from avalanches and other natural disasters.

3
4 As a result, AELP must have capacity to back up 100 percent of firm peak power
5 demands that are met by the two projects. Its overall reserve requirements are equal to
6 all firm load served from Snettisham and Lake Dorothy plus the largest single generating
7 unit among AELP's other generating resources. So, in effect, the projects can be thought
8 of as providing energy to the AELP system with capacity provided by the standby
9 thermal units in Juneau. Gold Creek is a run-of-the-river plant that also provides AELP
10 with energy but no firm capacity.
11

12
13
14 Second, the three hydroelectric projects were all developed to provide energy to AELP's
15 service area. Looking at the thermal units as providing capacity, output from those units
16 is displaced by the lower-cost energy from the three hydro plants.
17

18
19 Third, we looked at the cost of AELP's hydroelectric and standby power production
20 system, including transmission integration from Snettisham and Lake Dorothy, as a
21 single, integrated and coordinated system for providing energy and capacity. A method
22 for classifying costs for a system with substantial fixed costs, like a hydroelectric plant, a
23 nuclear plant, or a coal-fired plant, is called the "Equivalent Peaker Method". It is
24 described in NARUC's Electric Utility Cost Allocation Manual (1992). Under that
25 method, the cost of peaking units is used to determine demand-related costs and all other
26

1 costs (the difference between total costs and the cost of the peaking units) are classified
2 as energy-related costs. AELP's system of Snettisham and Lake Dorothy integrated with
3 100 percent standby generation falls neatly into the Equivalent Peaker Method. The cost
4 of AELP's thermal standby units would comprise the "equivalent peaker" and be
5 classified as demand-related, and all other costs, the hydro costs, would therefore be
6 classified as energy-related. That is exactly what we are proposing.
7

8
9 **Q13. Please provide more explanation as to why the Snettisham and Lake Dorothy**
10 **transmission lines were classified as 100 percent energy-related.**

11
12 A13. These transmission lines serve the sole purpose of delivering power generated at
13 Snettisham and Lake Dorothy to AELP's service area. Their function is to integrate
14 power from the two hydroelectric facilities into AELP's power delivery system. In fact,
15 they are part of the Snettisham and Lake Dorothy projects and are treated as such in our
16 cost analysis. As noted previously, the vulnerability of the lines to outages is why
17 generation at Snettisham and Lake Dorothy must have 100 percent backup. Hence, the
18 lines do not deliver reliable capacity; they deliver energy.
19

20
21 **Q14. How did you allocate costs associated with AELP's other hydroelectric resources?**

22 A14 AELP has two other hydroelectric resources: Salmon Creek and Annex Creek. They are
23 relatively small, comprising 13 percent of AELP's overall hydroelectric generation
24 capability in an average year. However, these two resources do provide firm capacity of
25 8 MW. Costs were classified as they were in previous cost of service studies: 90 percent
26

1 were classified as energy-related and 10 percent were classified as demand-related based
2 on the ratio of fixed to variable cost of hypothetical new thermal generation in Juneau.
3

4
5 **Q15. Please describe the changed allocation factor used to allocate costs associated with**
6 **the transmission system within AELP's service territory.**

7 A15. We continue to classify costs for AELP's service area transmission system as capacity
8 related, but we changed the allocation method from "average and excess" to "peak
9 responsibility." This places more responsibility on class peaking characteristics in that
10 the average and excess method allocates more than half the costs based on each customer
11 class's energy requirements. We made this change simply because the transmission
12 system is sized to meet peak loads, not average loads.
13

14
15 **Q16. Please describe the test year data utilized in this cost of service study.**

16 A16. The test year data used for the cost of service study is the same as that used by AELP to
17 calculate the overall revenue requirements for AELP's proforma 2015 test year. Cost
18 data included in the cost of service study tie directly to AELP's revenue requirement
19 study. Additionally, AELP provided more detailed cost accounting data where needed.
20 We also used operating data supplied by the utility.
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1 Q17. Please describe the contents of Exhibit DAG-2, AELP's 2015 Cost of Service and
2 Rate Study.

3 A17. An index to the analyses contained in the cost of service study is provided on page 2 of
4 Exhibit DAG-2. Starting at page 3 are basic sales and demand input data that are used in
5 the study. The base cost of service study, including all calculation schedules, starts at
6 page 8. That study is followed by summary results for cost of service calculations using
7 alternative cost allocation methodologies. Those summaries including a comparison with
8 results of AELP's base cost of service study run from page 68 through page 73. Starting
9 at page 38 are summaries of current and proposed permanent and interim rates, followed
10 by typical bill analyses for permanent rates, starting at page 43. Finally, starting at page
11 74 are the Commission's cost of service study regulations with references to where the
12 required information is located in the cost of service study.
13
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15
16 Within the AELP's base cost of service study, starting at page 8, there are twelve active
17 cost of service calculation schedules. Schedule 1 summarizes the results of the cost of
18 service study. For each class, it provides information on revenues, rate base, allocated
19 revenue requirements (cost of service), and the portion of the allocated revenue
20 requirements that are required from firm sales. It also shows how the cost of service for
21 each rate class compares to revenues from AELP's current and proposed rates.
22
23

24 Sales revenues from each class under existing rates are shown at the top of Schedule 1
25 (Line 4). These sales are referred to in the study as "firm" sales. They include all sales
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27

1 made under standard AELP rate schedules 10 (Residential), 20 (Small Commercial),
2 24 (Large Commercial), and 46 ("Dusk to Dawn Lighting", which is referred to in the
3 cost of service study simply as "Lighting"). In addition, Rate 10 data includes revenues
4 and sales associated with Rate 92 (Residential Heat Pump) and special, small
5 supplemental services including Rates 91 (Off-Peak), 92, and X1 (Electric Vehicles).
6 That includes data for 41 Rate 91 customers, 19 Rate 92 customers, and 10 Rate X1
7 customers. Rate 20 data includes data for two Rate 91 customers. Demand allocators for
8 Rates 10 and 20 were adjusted to reflect the fact that supplemental energy delivered
9 under Rates 91 and X1 does not add to class peak demands.
10

11
12
13 Schedule 1 also shows a summary of the allocation of other operating revenues to each
14 class (Line 5). Those other operating revenues reduce the amount of revenues that need
15 to be generated from firm sales and thereby keep rates lower than they would otherwise
16 need to be.
17

18
19 Components that comprise AELP's overall revenue requirement are shown in Lines 12
20 through 17 of Schedule 1. The portion of those requirements to be recovered through
21 sales to firm customers is calculated as shown in Lines 20 through 22. The difference
22 between revenue requirements from firm sales and revenues from current rates is shown
23 in Lines 26 and 27.
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1 Revenues from proposed rates for each class are shown in Line 30. The ratio of those
2 revenues and the revenue requirements for each class is shown in Line 31.

3
4 The detail of existing revenue is shown in Schedule 2. Revenues generated from sales to
5 each class are naturally credited to each respective class. The largest other operating
6 revenues are the \$9.6 million in revenues from interruptible sales to Greens Creek under
7 Rate 43. Because those revenues are generated based on the sale of surplus
8 Snettisham/Lake Dorothy hydroelectric generation, they were credited back to the
9 respective customer classes on the same basis that Snettisham/Lake Dorothy
10 hydroelectric generation costs were allocated to the AELP customer classes. The same is
11 true for other interruptible sales revenues from the fish hatchery at the Snettisham
12 Hydroelectric Project (Rate 29) and from the portion of interruptible, dual fuel sales
13 revenues (Rates 25 and 95) not directly credited back to customers through AELP's Cost
14 of Power Adjustment Clause (Rate 98).
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18 Schedules 3, 4, and 5 provide allocation of test year expenses including operating and
19 maintenance expenses, depreciation expense, and taxes (other than income taxes),
20 respectively.
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23 Schedule 9 shows a calculation and allocation of AELP's rate base. It is based on
24 information from Schedules 10, 11, and 15. Schedule 10 shows the allocation of gross
25 plant, by plant account, and Schedule 11 shows the allocation of accumulated
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1 depreciation associated with those accounts. Schedule 15 shows the allocation of the
2 other rate base items. Allocation of salaries and wages are presented in Schedule 16.

3
4 Allocation factors used in the cost of service analysis are provided in Schedule 17
5 and 17A. Schedule 17 shows the numerical bases for the allocation factors and Schedule
6 17A translates those data into ratios used to allocate costs and revenues to AELP's
7 various customer classes.
8

9
10 **PROPOSED RATES**

11 **Q18. What method is AELP proposing to use in increasing its permanent rates?**

12 **A18.** AELP is proposing to increase its firm rates by 8.1 percent on an across-the-board basis.
13 That is, it proposes to increase all charges—customer, demand, and energy charges—
14 within each of its firm rate schedules by 8.1 percent. The increases would apply to rate
15 schedules 10 (General Residential), 20 (Small Commercial), 24 (Large Commercial), 46
16 (Dusk to Dawn Lighting), 91 (Off Peak Service), 92 (Residential Heat Pump Service),
17 and X1 (Experimental Residential Off-Peak Electric Vehicle Charging).
18
19

20
21 **Q19. Under the proposed permanent firm rates, how do revenues from sales for each**
22 **class compare with their respective revenue requirements (cost of service)?**

23 **A19.** That information is also shown in Schedule 1 of the Cost of Service Study at Lines 22,
24 30, and 31. Line 31 reports for each rate class the ratio of revenues from proposed
25 permanent rates to revenue requirements from firm sales. Of course, since total revenues
26

1 from proposed rates equal AELP's total revenue requirements from firm sales, the ratio
2 for the utility as a whole equals 1.0.

3
4 As shown in Line 31 of Schedule 1 to the cost of service study, AELP revenues from
5 proposed rates for each customer class would be reasonably close to revenue
6 requirements for each respective class. Revenues from proposed large commercial rates
7 (Rate 24) are nearly identical to the calculated revenue requirements for the class.
8 Revenues from proposed lighting rates (Rate 46) are also quite close, varying by only 1.4
9 percent from class revenue requirements. Revenues from proposed residential rates (Rate
10 10) would be just 2.2 percent below revenue requirements calculated for the class, while
11 revenue from small commercial rates (Rate 20) would be 6.4 percent above revenue
12 requirements.
13
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15
16 **Q20. What about AELP's interruptible rates?**

17 A20. AELP is not proposing any changes to its interruptible rates in this rate filing. That is
18 because those rates are determined via other mechanisms. Interruptible rates to the
19 Green's Creek Mine (Rate 43), Princess Cruise Lines (Rate 28), and the fish hatchery at
20 Snettisham (Rate 29), are set by contract. Rates for Large Commercial Interruptible
21 Electric Heat (Rate 25) and Controlled Service Interruptible Load Less than 100 KW
22 Capacity (Rate 95) are for "dual fuel" service where AELP provides surplus hydroelectric
23 power on an interruptible basis to customers who demonstrate that they can shift to an
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1 alternate fuel when surplus supplies are not available. Both Rate 25 and Rate 95 are
2 determined by a formula tied to the price of No. 2 fuel oil in Juneau.

3
4
5 **Q21. What specific firm rates are being proposed?**

6 A21. AELP's existing and proposed rates for rate schedules 10, 20, 24, 46, 91, and 92 are
7 shown on pages 39 and 41 of the cost of service study. Pages 40 and 42 show AELP's
8 proposed interim rates.

9
10 **Q22. How were proposed rates prepared?**

11 A22. As previously described, AELP is proposing to increase rates 10, 20, 24, 46, 91, 92, and
12 X1 on an "across-the-board" basis. The proposed rates were developed simply by
13 increasing all customer, demand, and energy charges within the specified rate schedules
14 by 8.1 percent for permanent rates and by 3.86 percent for interim rates.

15
16
17 **Q23. What revenues are produced from the proposed rates?**

18 A23. Revenues to be produced from each customer class under proposed permanent and
19 interim rates were calculated as shown on Exhibit 2 of AELP's Tariff Advice Letter No.
20 453-1. A total of \$37.1 million would be produced from permanent rates and \$35.7
21 million would be produced from interim rates. Revenues from AELP's proposed
22 permanent rates for each rate class are also shown on Schedule 1 of the cost of service
23 study at Line 30. Proposed permanent rates would increase annual revenues from firm
24 sales by \$2.8 million, or 8.1 percent.

1
2 **Q24. Do you agree with AELP's proposal to increase its rates on an across-the-board**
3 **basis?**

4
5 A24. Yes, I do. As previously noted, revenues to be collected from proposed rates to each
6 class reasonably reflects the cost to serve each class.

7
8 **Q25. What will be the impact on customers from the proposed rate increase?**

9 A25. The impact on customers of varying size and load characteristics is shown starting at
10 page 43 of Exhibit DAG-2. Those pages contain a typical bill analysis for each customer
11 class. Specifically, they show the amount of increase under proposed rates at varying
12 levels of energy consumption for rate schedules that include "two-part rates" with
13 customer and energy charges (Rates 10 and 20) and for different combinations of energy
14 and demand levels for rate schedules that include "three-part rates" with customer,
15 energy, and demand charges (Rates 10, 20, and 24).
16
17

18 **ALTERNATIVE COST OF SERVICE APPROACHES**

19
20 **Q26. Did you prepare an alternative cost of service analyses?**

21 A26. Yes. 3 AAC 48.540 requires that AELP submit cost of service analyses that show the
22 impact of allocating demand-related generation and transmission costs on the basis of
23 both the peak responsibility method and the average and excess method, each with
24 demand-related distribution costs allocated on the basis of the noncoincident peak
25 method.
26

Summary results of the study using the peak responsibility method are shown at page 69 and summary results using the average and excess method are shown on page 71 of Exhibit DAG-2.

A comparison of the results of the AELP cost of service study and the alternative analyses is shown at page 73 of Exhibit DAG-2. There is not much variation among the study results. For example, among the three methods (the AELP method, the peak responsibility method, and the average and excess method), the resulting ratio of residential revenues from proposed rates to the calculated revenue requirements would vary by just over one percentage point, with the ratio ranging from 97.5 percent to 98.6 percent. Using the AELP method, the ratio is in the middle of the range at 97.8 percent. The largest range in the ratio of revenues to revenue requirements is for the large commercial class. That ratio ranges from 98.6 percent using the average and excess method to 100.6 percent using the peak responsibility method.

Q27. Does this conclude your testimony?

A27. Yes, it does.

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Employment History

Independent Consultant, 2014-Current. Semi-retired, doing business as an owner of Boswell & Associates and through HKA Enterprises.

CH2M HILL, 1971-2014. Held numerous positions including Department Manager, Division Manager, Program Manager, and Vice President. Managed projects and conducted a broad range of economics, finance, and multi-disciplinary projects.

Education

B.A., Economics and Mathematics, Western Washington University
Graduate Studies, Economics and Business Administration, University of Washington and Western Washington University

Previous Professional Certifications and Memberships

Certified Energy Procurement Professional (by the Association of Energy Engineers)
CH2M HILL Certified Project Manager
Seattle Economists Club, Past President

Distinguishing Qualifications

- Advisor to public and private clients on energy and utility economics and finance
- Experienced program manager with a long history of success in delivering innovative and effective analyses and recommendations to clients
- Expert in energy project feasibility and development, utility rates, deregulation and privatization, energy efficiency, planning and forecasting, and market evaluation

Relevant Experience

Cost of Service and Ratemaking

Project Manager; Cost of Service and Rate Analyses, Alaska Electric Light and Power Company (AELP). Conducted numerous cost of service and rate studies for AELP and has advised on other economics and rate related matters for the utility. Assisted AELP in developing strategic power supply, service, and load management strategies.

Project Manager; Cost of Service and Ratemaking; Omaha Public Power District. For over 20 years, provided on-going advice to the Board of Directors of the Omaha Public Power District regarding cost of service, rate, management, and related financial issues. Provided critical review of District rate proposals and pricing practices. In many cases, this review lead to collaboration on alternative approaches to achieve rate proposals that meet criteria of being fair, reasonable, and non-discriminatory.

Project Manager; Wholesale Rate Impact Evaluation; Bonneville Power Administration.

Conducted an evaluation of the wholesale and retail impacts of a wide range of traditional and innovative rate designs for power supply and wheeling services.

Project Manager; Cost of Service and Rate Studies; Various Other Utilities. Prepared cost-of-service and rate studies for utilities in Washington, Alaska, California, American Samoa, and the Commonwealth of the Northern Mariana Islands.

Project Manager; Secondary Energy Price Computer Model; Seattle City Light. Developed a computer model that evaluated and projected secondary energy prices in the Pacific Northwest. The model provided for evaluation of uncertainties including regional water conditions, load development, and resource availability in both the short and long term.

Energy Project Development

Project Manager; Snettisham and Lake Dorothy Hydroelectric Projects; AELP and the Alaska Industrial Development and Export Authority (AIDEA). Conducted a detailed consulting engineer's report that supported a \$100 million bond financing by the Alaska Industrial Development and Export Authority to acquire the Snettisham Hydroelectric Project in Alaska. The purchase was based on conduit financing by AIDEA with AELP responsible for repayment of the debt and the cost of project operation including renewals and replacements. This was one of the first acquisitions of a significant Federal energy generation facility. The report included analysis of risks associated with the acquisition and the associated power sales agreement between AIDEA and AELP.

Mr. Gray also prepared the feasibility study for a \$50 million revenue bond issued primarily to finance AELP's construction of the Lake Dorothy Hydroelectric Project. The study included analysis of construction, market, and system failure risks as well evaluation of the financial strength of the utility and its ability to withstand lost revenues from unlikely but possible cost overruns, changes in market conditions, and system failures.

Project Manager; Bradley Lake Hydroelectric Feasibility Study. Managed a feasibility study leading to Golden Valley Electric Association (GVEA) participation in the development of the Bradley Lake Hydroelectric Project in Alaska. Mr. Gray conducted developed a customized economic dispatch model that took into consideration stream flows associated with the project, transmission line constraints, the long-term availability of low-cost, non-firm power supplies from neighboring utilities, risks associated with construction cost estimates, load development, financing costs, and fuel costs associated with the alternative supply sources. He worked closely with the GVEA Board of Directors in providing guidance that lead to their decision to take an ownership share of the project. The project has proven to be an important, low-cost resource in the utility's overall resource portfolio.

Project Manager; Network Development; Seattle City Light; Seattle, Washington. Advised Seattle City Light on approaches needed to evaluate the costs, risks, pricing, and overall feasibility of a network development in the South Lake Union area of Seattle. The analysis supported SCL's communications with key project stakeholders regarding the likely rate for network service.

Project Manager; Solar Development Case Studies, Sandia National Laboratory, Albuquerque, New Mexico. Conducted analysis to document alternative approaches to solar power development in the United States. The project focused on market conditions, government incentives, financial risk management, and the regulatory environment, each of

which affects the ultimate feasibility of solar resource development. Within the United States, these conditions vary by state resulting in variation in solar development and financing techniques used among states.

Task Manager; Solar Power Financial Evaluation, Santa Clara County. Conducted financial analysis of PV solar power generation development at 19 Santa Clara County sites. These developments ranged from rooftop systems at existing County buildings to ground-mounted systems on raw land at interchanges owned by the County. The analysis included evaluation of potential benefits and costs of PV solar investment and a projected benefit/cost ratio at each site. Three ownership options available to the County were evaluated including direct ownership by the County, long-term lease by the County, and county purchase of power from a solar power developer under a power purchase agreement.

Program Manager; Solar Power Project Development; Confidential Client. Managed a program for a confidential client that included guiding development of a major on-site solar power project. The project was completed within a year of initial investigation and is now operational, providing energy savings to the client relative to standard rates charged by the regional utility.

Project Manager; Combined Heat and Power Project; Snohomish County Public Utility District. Evaluated the feasibility of a \$90 million bond issue for a combined heat and power facility fueled by wood waste. The project included a detailed wood waste market study and the ability of the PUD to float tax-free financing for the project. For other revenue bonds issued by the PUD, evaluated bond feasibility with focus on financial forecasts for the utility.

Project Manager; Municipal Electric Utility Evaluation; City of Spokane. Performed an evaluation of optional uses for power generated at its Upriver Dam Hydroelectric Project and its Waste-to-Energy Facility. This included evaluation of establishing a new, City-owned utility in Spokane. The study evaluated the basis for the rates charged to the City for power supplied by the existing electric utility, Avista, and compared the power supply cost component of those rates to the future revenue the City could reasonably expect to obtain from sale of power from its two generating resources into wholesale markets. Steps needed to acquire the existing Spokane distribution system from Avista to establish the new utility were delineated. The costs of supplementing the City's generating resources for full and reliable service and the cost of replacing or acquiring Avista's existing distribution system in Spokane were also considered.

Project Manager; Alaska Gas Pipeline Investment Evaluation; State of Alaska Department of Revenue. Conducted an evaluation of the risks, rewards, and regulatory constraints associated with financial participation in the proposed \$15-billion Alaska gas pipeline project. As part of this work, developed a financial model that assessed the impact uncertainties would have on projected rates of return and tariff levels. Key uncertainties included market conditions, construction costs, and delays that might affect the project's completion date. The model also evaluated the impact tax-exempt financing would have on project feasibility. Risk profiles were developed to show the likely range of project returns based on key uncertainties associated with the project.

Project Manager; Economic/Financial Feasibility Study; Railbelt and Copper Valley; Alaska. For a blue-ribbon committee appointed by the Governor of Alaska, completed both an economic and a financial feasibility study for a new transmission line planned to connect the Railbelt and Copper Valley regions in Alaska. This work included evaluation of future electric load

developments in the region, alternative power supply projects, and generation efficiencies gained through linking the two regions with the proposed transmission line.

Planning and Forecasting

Project Manager; State Energy Plan; Alaska Industrial Development and Export Authority, State of Alaska. With the Alaska Industrial Development and Export Authority, prepared the rural region section of the State of Alaska Energy Plan. For Alaska's rural communities, prepared an assessment of the energy characteristics, costs, and needs of rural communities. This included evaluation of electric utility management, service reliability, service affordability, and the power cost equalization program. Based on these evaluations, challenges facing rural communities and possible solutions to those challenges were identified. These included opportunities and possible solutions in terms of fuel cost reductions, efficiencies from technological improvements, efficiency incentives, economies of scale, modernization of administrative practices, improved system reliability, and improved operation and management practices.

Project Manager; Energy Plan; Seattle-Tacoma International Airport (Sea-Tac); SeaTac, Washington. Prepared energy supply strategy for Seattle-Tacoma International Airport, which recently obtained open access to unregulated power supplies. The study included development of a profile of energy use at the Airport, review of the regional energy market structure and long-range trends in cost and reliability, evaluation of energy options with the Airport's current electric and natural gas supplier, and analysis of generation options available to the Airport. Based on that analysis, short-, intermediate-, and long-term power supply and conservation strategies were developed and reported to Airport management. In a follow-on contract, he assisted the Airport in its implementation of recommended strategies and procurement of a long-term energy supply.

Project Manager; Integrated Resource Plan; Golden Valley Electric Association. Managed development an integrated resource plan and power requirements study for Golden Valley Electric Association. The project included analysis of uncertainties and led to development of the utility's conservation program and new power supply development.

Energy Efficiency

Program Manager; Energy Efficiency Program; Confidential Fortune 100 Company. Managed an energy efficiency program for a Fortune 100 company in the United States. The work has included conducting energy audits at about 130 major facilities as well as oversight of energy audits conducted at hundreds of other sites by other energy auditors. An interactive web interface was developed to facilitate financial evaluation and prioritization of energy savings measures, tracking of projects from inception to completion, and reporting of program costs, energy savings, and related financial accomplishments. The program work provided for this client also included incorporation of an energy efficiency component to the company's construction guidelines, development of on-site solar resources, and management of a LEED® certification project.

Project Manager; Energy Efficiency and Best Practices Assessment; HGST. Managed a project to identify energy efficiency improvements and best practices at selected international facilities. Candidate projects were prioritized based on projected rates of return. Best practices were identified for application to other facilities in HGST's portfolio of manufacturing facilities.

Project Manager; Energy Efficiency Project; Confidential Client. Managed a project to improve energy efficiency for an international telecommunications firm. The focus of the project

was to improve the firm's energy profile, reduce costs, mitigate risks, and minimize air quality impacts.

Project Manager; Energy Conservation Program; Golden Valley Electric Association (GVEA). Prepared and helped implement a utility-wide conservation plan. The plan won a National Energy Award from the United States Department of Energy. It includes three components to induce GVEA customers to install conservation measures. Home Sense is an in-home audit program where customers receive energy efficient products installed on the spot. Builder Sense offers rebates for "building in" energy efficiency during new home construction. Business Sense offers rebates to commercial customers for energy efficient lighting. The planned conservation program was implemented and is now fully operational.

Market Evaluation

Project Manager; Heat Recovery from Wastewater System; King County, Washington. Assisted King County, Washington, evaluate the value of heat to be recovered from one of its wastewater pipelines for use in a heating system for a real estate development in Seattle, Washington. The analysis recognized that the value will change over time as technology for heat recovery improves and market conditions change. A mechanism was developed for price redetermination based on the difference between energy district costs and the avoided cost of alternative energy supplies (e.g. natural gas supply for heating).

Project Manager; Planned Community; California. Evaluated the financial feasibility and rate requirements for a new utility to serve a new, planned community in California.

Project Manager; Segmented Housing Market Analysis; U.S. Army Corps of Engineers. Managed a major study of the housing market in 23 European communities to determine the level of housing availability for U.S. military personnel and the need for new construction to meet housing shortages. The Corps of Engineers rated work performed on this project as "Excellent".

Project Manager; Bond Feasibility; Port of Tacoma; Tacoma, Washington. Managed the consulting engineer's report for two major revenue bonds issued by the port. The reports reviewed the feasibility of bonds used to construct new facilities at the port. Analyses included review of project costs, market analyses, and financial forecasts for the port.

REGULATORY COMMISSION OF ALASKA
TA 453-1

ALASKA ELECTRIC LIGHT AND POWER COMPANY
COST OF SERVICE AND RATE ANALYSIS
TEST YEAR 2015

ALASKA ELECTRIC LIGHT AND POWER COMPANY
COST OF SERVICE AND RATE ANALYSES

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REGULATORY COMMISSION OF ALASKA
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**ALASKA ELECTRIC LIGHT AND POWER COMPANY
COST OF SERVICE AND RATE ANALYSES**

TEST YEAR 2015 SALES AND DEMAND INFORMATION

Alaska Electric Light and Power Company
2015 Test Year Sales and Revenues by Rate Class (Firm Sales)

	Jan	Feb	Mar	Apr	May	Jun	Jul
Rate 10 - General Residential, including 91 & 92							
# of Customers	14,094	14,120	14,144	14,179	14,193	14,231	14,331
Kwh Sold	15,407,047	14,989,888	13,291,309	12,828,968	10,369,106	8,518,382	8,328,609
Revenue-Energy (\$)	1,822,328	1,772,688	1,572,411	1,517,828	1,227,320	831,192	813,054
Revenue-Customer (\$)	126,329	126,510	126,981	127,959	127,658	129,002	129,149
Revenue-Demand (\$)	10,045	10,199	9,996	9,587	8,793	4,995	4,894
Total Revenue (\$)	1,958,702	1,909,396	1,709,387	1,655,374	1,363,771	965,188	947,097
Rate 20 - Small Commercial							
# of Customers	1,978	1,979	1,979	1,980	1,982	1,990	1,997
Kwh Sold	5,472,081	5,706,983	4,999,854	5,057,052	4,513,179	4,146,244	4,191,314
Revenue-Energy (\$)	478,100	497,290	437,637	438,884	390,571	299,848	302,292
Revenue-Customer (\$)	40,330	40,336	40,374	40,484	40,541	40,616	40,783
Revenue-Demand (\$)	118,429	122,357	121,734	120,133	111,248	69,833	69,800
Revenue-Pwr Factor (\$)	217	18	42	191	395	217	282
Total Revenue (\$)	637,076	660,001	599,786	599,693	542,754	410,515	413,156
Rate 24 - Large Commercial, with Demand Metering							
# of Customers	170	169	171	172	172	174	174
Kwh Sold	9,952,502	10,282,077	9,350,664	9,741,276	9,100,382	8,824,046	9,256,229
Revenue-Energy (\$)	609,946	630,050	572,896	597,103	557,633	506,414	530,642
Revenue-Customer (\$)	16,591	16,392	16,591	16,690	16,690	16,889	16,988
Revenue-Demand (\$)	353,061	358,942	372,658	357,960	346,620	224,992	222,887
Revenue-Pwr Factor (\$)	7,916	6,004	8,047	6,807	8,867	6,381	8,711
Total Revenue (\$)	987,514	1,011,388	970,192	978,561	929,810	754,675	779,228
Rate YL - Street Lights							
# of Customers	212	210	210	208	207	208	208
Kwh Sold	120,419	127,638	123,154	97,175	77,549	57,256	44,859
Revenue-Energy (\$)	22,167	21,940	21,940	21,836	21,802	21,815	21,805
Total Revenue (\$)	22,167	21,940	21,940	21,836	21,802	21,815	21,805
TOTAL							
# of Customers	16,454	16,478	16,504	16,539	16,554	16,603	16,710
Kwh Sold	30,952,049	31,106,586	27,764,981	27,724,471	24,060,216	21,545,928	21,821,011
Revenue-Energy (\$)	2,932,541	2,921,968	2,604,884	2,575,651	2,197,326	1,659,269	1,667,793
Revenue-Customer (\$)	183,250	183,238	183,945	185,134	184,888	186,506	186,920
Revenue-Demand (\$)	481,536	491,498	504,388	487,679	466,660	299,820	297,581
Revenue-Pwr Factor (\$)	8,134	6,022	8,088	6,999	9,263	6,598	8,992
Total Revenue (\$)	3,605,460	3,602,726	3,301,306	3,255,463	2,858,138	2,152,193	2,161,287

Alaska Electric Light and Power Co.
2015 Test Year Sales and Revenue

	Aug	Sep	Oct	Nov	Dec	Average Total	Winter Nov - May	Summer Jun - Oct
Rate 10 - General Residential, incl								
# of Customers	14,356	14,351	14,335	14,337	14,362	14,253	14,204	14,321
Kwh Sold	8,482,751	9,119,307	10,803,901	12,354,354	14,597,927	139,091,549	93,838,599	45,252,950
Revenue-Energy (\$)	828,188	888,963	1,050,448	1,457,553	1,719,179	15,501,150	11,089,306	4,411,844
Revenue-Customer (\$)	129,511	129,647	129,832	128,878	128,830	1,540,285	893,145	647,140
Revenue-Demand (\$)	4,993	6,206	7,300	14,712	16,033	107,753	79,365	28,388
Total Revenue (\$)	962,693	1,024,815	1,187,579	1,601,144	1,864,041	17,149,188	12,061,815	5,087,373
Rate 20 - Small Commercial								
# of Customers	1,990	1,985	1,967	1,958	1,952	1,978	1,973	1,986
Kwh Sold	3,859,819	3,971,709	4,242,862	4,326,892	4,652,776	55,140,765	34,728,817	20,411,948
Revenue-Energy (\$)	282,184	291,721	308,028	376,701	408,045	4,511,301	3,027,228	1,484,073
Revenue-Customer (\$)	40,639	40,614	40,428	40,098	39,935	485,177	282,097	203,080
Revenue-Demand (\$)	64,479	63,336	65,968	102,350	101,014	1,130,680	797,265	333,415
Revenue-Pwr Factor (\$)	107	89	121	124	94	1,897	1,081	816
Total Revenue (\$)	387,408	395,759	414,545	519,273	549,088	6,129,054	4,107,671	2,021,384
Rate 24 - Large Commercial, with								
# of Customers	182	185	189	193	200	179	178	181
Kwh Sold	9,692,402	10,099,433	10,065,127	10,002,407	10,402,359	116,768,904	68,831,667	47,937,237
Revenue-Energy (\$)	555,621	579,038	578,473	612,121	636,910	6,966,847	4,216,659	2,750,188
Revenue-Customer (\$)	17,683	17,980	18,377	18,774	19,469	209,114	121,197	87,916
Revenue-Demand (\$)	234,727	246,860	247,648	380,581	402,707	3,749,644	2,572,530	1,177,114
Revenue-Pwr Factor (\$)	8,679	9,252	9,113	11,282	10,553	101,611	59,477	42,134
Total Revenue (\$)	816,709	853,130	853,611	1,022,759	1,069,639	11,027,216	6,969,863	4,057,353
Rate YL - Street Lights								
# of Customers	207	207	208	209	210	209	209	208
Kwh Sold	44,839	58,979	70,417	72,600	101,242	996,127	719,777	276,350
Revenue-Energy (\$)	21,795	21,670	21,680	21,710	21,705	261,867	153,102	108,765
Total Revenue (\$)	21,795	21,670	21,680	21,710	21,705	261,867	153,102	108,765
TOTAL								
# of Customers	16,735	16,728	16,699	16,697	16,724	16,619	16,564	16,695
Kwh Sold	22,079,811	23,249,428	25,182,307	26,756,253	29,754,304	311,997,345	198,118,860	113,878,485
Revenue-Energy (\$)	1,687,788	1,781,392	1,958,629	2,468,086	2,785,838	27,241,165	18,486,295	8,754,871
Revenue-Customer (\$)	187,832	188,241	188,637	187,750	188,233	2,234,575	1,296,439	938,136
Revenue-Demand (\$)	304,199	316,401	320,916	497,643	519,754	4,988,076	3,449,159	1,538,917
Revenue-Pwr Factor (\$)	8,786	9,341	9,233	11,406	10,647	103,508	60,558	42,950
Total Revenue (\$)	2,188,605	2,295,374	2,477,415	3,164,885	3,504,473	34,567,325	23,292,451	11,274,874

ALASKA ELECTRIC LIGHT AND POWER COMPANY
ANALYSIS OF CLASS CONTRIBUTIONS TO SYSTEM PEAK (CP) AND CLASS ANNUAL NONCOINCIDENT PEAKS (NCP)

Rate Class	Annual Sales (kWh)	Coincident Peak			Noncoincident Peak				
		Sales Level (kW)	Annual Load Factor	Input Level (kW)	Sales Level (kW)	Annual Load Factor	Input Level (kW)	Primary Loads (kW)	Secondary Loads (kW)
Rate 10	139,091,549	34,189	46.4%	37,266	36,361	43.7%	39,633	0	39,633
Rate 20	55,140,765	9,616	65.5%	10,481	10,187	61.8%	11,104	0	11,104
Rate 24	116,768,904	17,255	77.3%	18,796	20,413	65.3%	22,237	684	21,552
Rate 46	996,127	227	50.0%	248	227	50.0%	248	0	248
TOTAL	311,997,345	61,287		66,791	67,188		73,222		72,537

ALASKA ELECTRIC LIGHT AND POWER COMPANY
CALCULATION OF AVERAGE AND EXCESS DEMAND FACTORS
TEST YEAR 2015

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
	ENERGY AT	ENERGY AT	AVERAGE	NCP AT	NCP AT	EXCESS NCP	SYSTEM	<u>EXCESS SYSTEM</u>			
RATE CLASS	SALES LEVEL	INPUT LEVEL	DEMAND	SALES LEVEL	INPUT LEVEL	AT	MAXIMUM	TOTAL	ALLOCATED	AVERAGE	TOTAL
	(KWH)	(KWH)	(KW)	(KW)	(KW)	(KW)	(KW)	(KW)	(KW)	(KW)	(KW)
RESIDENTIAL (Rate 10)	139,091,549	147,647,887	16,855	36,361	39,633	22,778			18,643	16,855	35,498
SMALL COMMERCIAL (Rate	55,140,765	58,532,797	6,682	10,187	11,104	4,422			3,619	6,682	10,301
LARGE COMMERCIAL (Rate	116,768,904	123,876,919	14,141	20,413	22,237	8,096			6,626	14,141	20,767
STREET LIGHTS (Rate 46)	996,127	1,057,405	121	227	248	127			104	121	225
Total	311,997,345	331,115,009	37,799	67,188	73,222	35,423	66,791	28,993	28,993	37,799	66,791

REGULATORY COMMISSION OF ALASKA
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**ALASKA ELECTRIC LIGHT AND POWER COMPANY
COST OF SERVICE AND RATE ANALYSES**

AELP COST OF SERVICE STUDY INCLUDING DETAILED SCHEDULES

INDEX

Schedule #

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2	ALLOCATION OF OPERATING REVENUES
3	ALLOCATION OF OPERATION & MAINTENANCE EXPENSES
4	ALLOCATION OF CURRENT DEPRECIATION EXPENSES
5	ALLOCATION OF TAXES OTHER THAN INCOME TAX
9	SUMMARY-TOTAL PLANT AND RATE BASE
10	ALLOCATION OF ELECTRIC PLANT IN SERVICE
11	ALLOCATION OF ACCUMULATED PROVISION FOR DEPRECIATION
15	ALLOCATION OF MATERIALS, SUPPLIES AND WORKING CAPITAL
16	ALLOCATION OF WAGES AND SALARIES
17	ALLOCATION FACTORS
17A	ALLOCATION FACTORS EXPRESSED AS %

ALASKA ELECTRIC LIGHT AND POWER COMPANY
SEASONAL COST-OF-SERVICE STUDY
2015 TEST YEAR

TEST YEAR 2015

Line No	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 1 - SUMMARY OF OPERATING REVENUE, RATE BASE, AND REVENUE REQUIREMENTS							
1							
2							
3	CURRENT OPERATING REVENUES						
4	Revenues from Firm Sales	SCHEDULE 2	34,351,132	17,149,188	6,129,054	10,811,023	261,867
5	Other Operating Revenues	SCHEDULE 2	10,229,820	4,694,627	1,775,446	3,727,750	31,997
6							
7	TOTAL OPERATING REVENUES		44,580,951	21,843,814	7,904,500	14,538,772	293,864
8							
9	RATE BASE	SCHEDULE 9	123,036,902	60,334,833	20,960,319	41,269,245	472,505
10							
11	REVENUE REQUIREMENT						
12	Operation & Maint. Exp.	SCHEDULE 3	21,830,613	10,988,216	3,672,375	6,962,511	207,511
13	Depreciation Exp.	SCHEDULE 4	5,477,784	2,823,103	916,172	1,711,820	26,688
14	Taxes Other than Income Tax	SCHEDULE 5	1,061,396	522,892	180,569	354,010	3,926
15	Return on Rate Base	9.98% RATE BASE	12,279,083	6,021,416	2,091,840	4,118,671	47,156
16	Income Tax	RATE BASE	6,716,059	3,293,421	1,144,134	2,252,712	25,792
17	Total	SUM ROWS 12-16	47,364,934	23,649,048	8,005,090	15,399,723	311,073
18							
19	REVENUE REQUIREMENT FROM FIRM SALES						
20	Total Revenue Requirement	ROW 17	47,364,934	23,649,048	8,005,090	15,399,723	311,073
21	Less: Other Operating Revenues	SCHEDULE 2	10,229,820	4,694,627	1,775,446	3,727,750	31,997
22	Total Revenue Required from Firm Sales	ROW 20 - ROW 21	37,135,114	18,954,421	6,229,644	11,671,973	279,075
23							
24	FIRM REVENUES AT EXISTING RATES	SCHEDULE 2	34,351,132	17,149,188	6,129,054	10,811,023	261,867
25	REVENUE REQ. DIFFERENCE FROM REVENUES						
26	Dollar Amount	ROW 22 - ROW24	2,783,982	1,805,234	100,590	860,950	17,208
27	Percentage	ROW 26 / ROW24	8.10%	10.53%	1.64%	7.96%	6.57%
28							
29	REVENUE WITH ACROSS-THE-BOARD INCREASE		108.100%				
30	Dollar Amount		37,133,578	18,538,272	6,625,508	11,686,720	283,078
31	Ratio to Revenue Requirement		1.000	0.978	1.064	1.001	1.014

ALASKA ELECTRIC LIGHT AND POWER COMPANY
SEASONAL COST-OF-SERVICE STUDY
2015 TEST YEAR

TEST YEAR 2015

Line No	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
1	SCHEDULE 1A - SUMMARY OF UNIT COSTS						
2							
3							
4	SUMMARY OF CLASSIFIED COSTS						
5							
6	Customer Costs		3,117,666	2,304,721	532,973	115,655	164,316
7	Energy Costs		19,428,199	8,676,844	3,433,711	7,255,385	62,258
8	Demand Costs		<u>14,589,250</u>	<u>7,972,856</u>	<u>2,262,960</u>	<u>4,300,933</u>	<u>52,501</u>
9	Total Required Revenues from Firm Sales		37,135,114	18,954,421	6,229,644	11,671,973	279,075
10							
11	SEASONAL COST ANALYSIS						
12							
13	BILLING UNITS						
14							
15	Number of Customers	WINTER	16,564	14,204	1,973	178	209
16		SUMMER	16,695	14,321	1,986	181	208
17		ANNUAL	16,619	14,253	1,978	179	209
18							
19	Demand - MCD (KW)	WINTER	179,897			179,897	
20		SUMMER	128,958			128,958	
21		TOTAL	308,855			308,855	
22							
23	Energy (MWH)	WINTER	198,119	93,839	34,729	68,832	720
24		SUMMER	113,878	45,253	20,412	47,937	276
25		TOTAL	311,997	139,092	55,141	116,769	996
26							
27							

ALASKA ELECTRIC LIGHT AND POWER COMPANY
SEASONAL COST-OF-SERVICE STUDY
2015 TEST YEAR

TEST YEAR 2015

Line No	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
28	FIRM REVENUE REQUIREMENTS BY RATE CLASSES:						
29							
30	Demand - Winter		7,619,747	4,251,436	1,195,696	2,144,336	28,281
31	Demand - Summer		551,661	241,108	92,187	215,915	2,452
32	Demand - NTD		6,417,841	3,480,313	975,078	1,940,682	21,768
33	Total Demand		14,589,250	7,972,856	2,262,960	4,300,933	52,501
34							
35	Energy - Winter		12,515,368	5,929,127	2,194,316	4,346,446	45,479
36	Energy - Summer		6,912,831	2,747,717	1,239,394	2,908,940	16,780
37	Total Energy		19,428,199	8,676,844	3,433,711	7,255,385	62,258
38							
39	Customer		3,117,666	2,304,721	532,973	115,655	164,316
40							
41	TOTAL		37,135,114	18,954,421	6,229,644	11,671,973	279,075
42							
43							
44	UNIT COSTS						
45							
46	Customer (\$/customer/month)		\$ 15.63	\$ 13.48	\$ 22.45	\$ 53.77	\$ 65.62
47							
48	Demand (\$/kW)						
49	WINTER					\$ 11.92	
50	SUMMER					\$ 1.67	
51	Non-Time Diff					\$ 6.28	
52	Total						
53	Winter					\$ 18.20	
54	Summer					\$ 7.96	
55	Demand (cents/kWh)						
56	WINTER			4.53	3.44		3.93
57	SUMMER			0.53	0.45		0.89
58	Non-Time Diff			2.50	1.77		2.19
59	Total						
60	Winter			7.03	5.21		6.11
61	Summer			3.03	2.22		3.07
62	Energy (cents/kWh)						
63	WINTER		6.32	6.32	6.32	6.31	6.32
64	SUMMER		6.07	6.07	6.07	6.07	6.07
65	ANNUAL		6.23	6.24	6.23	6.21	6.25

ALASKA ELECTRIC LIGHT AND POWER COMPANY
SEASONAL COST-OF-SERVICE STUDY
2015 TEST YEAR

TEST YEAR 2015								
Line No	FERC Account	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 2 - ALLOCATION OF OPERATING REVENUES								
1								
2								
3		ELECTRIC SALES REVENUES:						
4		Revenues from Firm Sales						
5	440	Residential Sales						
6		Winter	ASSIGNED	12,061,815	12,061,815			
7		Summer	ASSIGNED	5,087,373	5,087,373			
8		Total		17,149,188	17,149,188	0	0	0
9								
10	442	Commercial Sales						
11		Winter	ASSIGNED	10,933,925		4,107,671	6,826,254	
12		Summer	ASSIGNED	6,006,152		2,021,384	3,984,769	
13		Total		16,940,077	0	6,129,054	10,811,023	0
14								
15	444	Outside Lighting						
16		Winter	ASSIGNED	153,102				153,102
17		Summer	ASSIGNED	108,765				108,765
18		Total		261,867	0	0	0	261,867
19								
20		TOTAL FIRM ELECTRIC SALES REVENUE		34,351,132	17,149,188	6,129,054	10,811,023	261,867
21								
22		OTHER OPERATING AND INTERRUPTIBLE REVENUES:						
23								
24		Retained Revenues from Hatchery Contract (Rate 29)						
25		ENERGY	100.0% ANNUAL KWH	72,851	32,485	12,878	27,255	233
26		Total		72,851	32,485	12,878	27,255	233
27		Retained Revenues from Dual Fuel Sales						
28		ENERGY	100.0% ANNUAL KWH	89,742	40,017	15,864	33,574	287
29		Total		89,742	40,017	15,864	33,574	287
30		Interruptible Revenues, Greens Creek						
31		ENERGY	100.0% ANNUAL KWH	9,569,673	4,267,224	1,691,677	3,580,211	30,560
32		Total		9,569,673	4,267,224	1,691,677	3,580,211	30,560
33		Other Operating Revenue						
34	451	Misc. Service Revenues	MISC SVC REV	227,071	208,231	13,926	4,914	0
35	453	DIPAC Water Rights	HYDRO PLANT	0	0	0	0	0
36	454	Rent from Electr. Prop.	ACCT 364	270,252	146,557	41,061	81,718	917
37	456	Other Electr. Revenues	RATE BASE	231	113	39	78	1
38		Total		497,554	354,901	55,027	86,709	918
39								
40		TOTAL OTHER OPERATING AND INTERRUPTIBLE RE		10,229,820	4,694,627	1,775,446	3,727,750	31,997
41								
42		TOTAL PROFORMA OPERATING REVENUES		44,580,951	21,843,814	7,904,500	14,538,772	293,864

ALASKA ELECTRIC LIGHT AND POWER COMPANY
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Line No	FERC Account	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 3 - ALLOCATION OF OPERATION & MAINTENANCE EXPENSES								
1								
2								
3		POWER PRODUCTION EXPENSES						
4								
5		HYDRAULIC POWER GENERATION:						
6								
7	535-537	Hydraulic Expenses - LD/Gold Creek						
8		ENERGY	100.0% ANNUAL KWH	210,365	93,804	37,187	78,702	672
9		Total Acct 537 - LD/Gold Creek		210,365	93,804	37,187	78,702	672
10								
11	535-537	Hydraulic Expenses - Excl. LD/GC						
12		DEMAND-Winter	9.0% CP	83,810	46,762	13,152	23,586	311
13		DEMAND-Summer	1.0% SUMM DMD	9,312	4,070	1,556	3,645	41
14		ENERGY-Winter	57.2% WINTER KWH	532,204	252,130	93,311	184,828	1,934
15		ENERGY-Summer	32.8% SUMMER KWH	305,896	121,588	54,844	128,722	743
16		Total Acct 537 - Excl. LD/GC		931,222	424,550	162,863	340,781	3,029
17								
18	539	Misc Hydro Power Generation - LD/Gold Creek						
19		ENERGY	100.0% ANNUAL KWH	85,836	38,275	15,174	32,113	274
20		Total Acct 539 - LD/Gold Creek		85,836	38,275	15,174	32,113	274
21								
22	539	Misc Hydro Power Generation - Excl. LD/GC						
23		DEMAND-Winter	9.0% CP	26,582	14,832	4,171	7,481	99
24		DEMAND-Summer	1.0% SUMM DMD	2,954	1,291	494	1,156	13
25		ENERGY-Winter	57.2% WINTER KWH	168,802	79,970	29,596	58,623	613
26		ENERGY-Summer	32.8% SUMMER KWH	97,023	38,565	17,395	40,827	236
27		Total Acct 539 - Excl. LD/GC		295,361	134,657	51,656	108,087	961
28								
29		SUBTOTAL-HYDRO POWER OPERATIONS		1,522,784	691,286	266,880	559,683	4,935
30								
31	542	Maintenance of Structures						
32		DEMAND-Winter	9.0% CP	0	0	0	0	0
33		DEMAND-Summer	1.0% SUMM DMD	0	0	0	0	0
34		ENERGY-Winter	57.2% WINTER KWH	0	0	0	0	0
35		ENERGY-Summer	32.8% SUMMER KWH	0	0	0	0	0
36		Total Acct 542		0	0	0	0	0
37								
38	543	Maint. of Dams & Reservoirs - LD/Gold Creek						
39		ENERGY	100.0% ANNUAL KWH	46,123	20,567	8,153	17,256	147
40		Total Acct 543 - LD/Gold Creek		46,123	20,567	8,153	17,256	147
41								
42	543	Maint. of Dams & Reservoirs - Excl. LD/GC						

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Line No	FERC Account	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 3 - ALLOCATION OF OPERATION & MAINTENANCE EXPENSES								
43		DEMAND-Winter	9.0% CP	6,505	3,629	1,021	1,831	24
44		DEMAND-Summer	1.0% SUMM DMD	723	316	121	283	3
45		ENERGY-Winter	57.2% WINTER KWH	41,306	19,568	7,242	14,345	150
46		ENERGY-Summer	32.8% SUMMER KWH	23,741	9,437	4,257	9,990	58
47		Total Acct 543 - Excl. LD/GC		72,274	32,950	12,640	26,449	235
48								
49	544	Maint. of Electric Plant - LD/Gold Creek						
50		ENERGY	100.0% ANNUAL KWH	120,443	53,707	21,291	45,060	385
51		Total Acct 544 - LD/Gold Creek		120,443	53,707	21,291	45,060	385
52								
53	544	Maint. of Electric Plant - Excl. LD/GC						
54		DEMAND-Winter	9.0% CP	13,798	7,698	2,165	3,883	51
55		DEMAND-Summer	1.0% SUMM DMD	1,533	670	256	600	7
56		ENERGY-Winter	57.2% WINTER KWH	87,617	41,508	15,362	30,428	318
57		ENERGY-Summer	32.8% SUMMER KWH	50,360	20,017	9,029	21,192	122
58		Total Acct 544 - Excl. LD/GC		153,307	69,894	26,812	56,103	499
59								
60	545	Maint of Misc Hydro Power Plant						
61		DEMAND-Winter	9.0% CP	1,323	738	208	372	5
62		DEMAND-Summer	1.0% SUMM DMD	147	64	25	58	1
63		ENERGY-Winter	57.2% WINTER KWH	8,402	3,981	1,473	2,918	31
64		ENERGY-Summer	32.8% SUMMER KWH	4,829	1,920	866	2,032	12
65		Total Acct 545		14,702	6,703	2,571	5,380	48
66								
67		SUBTOTAL-HYDRO POWER MAINTENANCE		406,850	183,820	71,468	150,248	1,313
68								
69		TOTAL-HYDRO POWER EXPENSES		1,929,634	875,107	338,348	709,931	6,249
70								
71		INTERNAL COMBUSTION POWER GENERATION						
72								
73	547	Fuel						
74		ENERGY-Winter	90.0% WINTER KWH	0	0	0	0	0
75		ENERGY-Summer	10.0% SUMMER KWH	0	0	0	0	0
76		Total Acct 547		0	0	0	0	0
77								
78	548	Generation Expenses						
79		DEMAND-Winter	89.6% CP	39,058	21,792	6,129	10,992	145
80		DEMAND-Summer	10.0% SUMM DMD	4,340	1,897	725	1,699	19
81		ENERGY-Winter	0.4% WINTER KWH	185	88	33	64	1
82		ENERGY-Summer	0.0% SUMMER KWH	21	8	4	9	0
83		Total Acct 548		43,604	23,785	6,890	12,763	165
84								

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Line No	FERC Account	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 3 - ALLOCATION OF OPERATION & MAINTENANCE EXPENSES								
85	549	Misc. Other Generation Exp						
86		DEMAND-Winter	89.6% CP	112,300	62,658	17,622	31,603	417
87		DEMAND-Summer	10.0% SUMM DMD	12,478	5,454	2,085	4,884	55
88		ENERGY-Winter	0.4% WINTER KWH	533	253	93	185	2
89		ENERGY-Summer	0.0% SUMMER KWH	59	24	11	25	0
90		Total Acct 549		125,370	68,387	19,811	36,697	474
91								
92		SUBTOTAL-INT. COMB. OPER. EXP.		168,974	92,173	26,702	49,460	639
93								
94	552	Maintenance of Structures						
95		DEMAND-Winter	89.6% CP	0	0	0	0	0
96		DEMAND-Summer	10.0% SUMM DMD	0	0	0	0	0
97		ENERGY-Winter	0.4% WINTER KWH	0	0	0	0	0
98		ENERGY-Summer	0.0% SUMMER KWH	0	0	0	0	0
99		Total Acct 552		0	0	0	0	0
100								
101	553	Maintenance						
102		Gas Turbines:						
103		DEMAND-Winter	89.6% CP	121,392	67,730	19,049	34,162	451
104		DEMAND-Summer	10.0% SUMM DMD	13,488	5,895	2,254	5,279	60
105		ENERGY-Winter	0.4% WINTER KWH	576	273	101	200	2
106		ENERGY-Summer	0.0% SUMMER KWH	64	25	11	27	0
107		Total Gas Turbines		135,520	73,924	21,415	39,668	513
108		Diesels:						
109		DEMAND-Winter	89.6% CP	257,531	143,689	40,412	72,474	956
110		DEMAND-Summer	10.0% SUMM DMD	28,615	12,506	4,782	11,199	127
111		ENERGY - Winter	0.4% WINTER KWH	1,223	579	214	425	4
112		ENERGY - Summer	0.0% SUMMER KWH	136	54	24	57	0
113		Total Diesels		287,504	156,828	45,432	84,155	1,088
114	554	Miscellaneous:						
115		DEMAND-Winter	89.6% CP	13,169	7,348	2,067	3,706	49
116		DEMAND-Summer	10.0% SUMM DMD	1,463	640	245	573	7
117		ENERGY - Winter	0.4% WINTER KWH	63	30	11	22	0
118		ENERGY - Summer	0.0% SUMMER KWH	7	3	1	3	0
119		Total Miscellaneous		14,702	8,020	2,323	4,303	56
120		Total Accts 553-4		437,725	238,772	69,171	128,126	1,656
121								
122		SUBTOTAL-INT. COMB. MAINT. EXP.		437,725	238,772	69,171	128,126	1,656
123								
124		TOTAL INTERNAL COMB. EXPENSE		606,699	330,945	95,873	177,587	2,295
125								
126		OTHER POWER SUPPLY EXPENSE						

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Line No	FERC Account	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 3 - ALLOCATION OF OPERATION & MAINTENANCE EXPENSES								
127								
128	555	Purchased Power Expense						
129		Generation Portion						
130		ENERGY	100.0% ANNUAL KWH	6,719,315	2,996,218	1,187,806	2,513,833	21,458
132		Transmission Portion	ANNUAL KWH	3,648,123	1,626,739	644,896	1,364,838	11,650
133								
134								
135	557	Other Expenses						
136		ENERGY-Winter	90.0% WINTER KWH	0	0	0	0	0
137		ENERGY-Summer	10.0% SUMMER KWH	0	0	0	0	0
138		Total Acct 557		0	0	0	0	0
139								
140		TOTAL OTHER POWER SUPPLY EXP.		10,367,438	4,622,957	1,832,702	3,878,671	33,108
141								
142		TOTAL POWER PRODUCTION EXP.		12,903,771	5,829,008	2,266,922	4,766,188	41,652
143								
144		TRANSMISSION EXPENSE						
145								
146	560	Superv. & Engineering	CP	0	0	0	0	0
147	561	Load Dispatching	CP	0	0	0	0	0
148	563	OH Line Expense	CP	0	0	0	0	0
149	566	Misc. Transm. Exp.	CP	93,927	52,407	14,739	26,433	349
150								
151		SUBTOTAL-TRANSM. OP. EXP.		93,927	52,407	14,739	26,433	349
152								
153	571	Maint of OH Lines						
154		General System Excl. Lake Doro	CP	362,938	202,501	56,952	102,137	1,347
155		Lake Dorothy/Gold Creek	ANNUAL KWH	16,596	7,400	2,934	6,209	53
156								
157	572	Maint of UG Lines	CP	0	0	0	0	0
158	573	Maint of Misc Transm. Plant	CP	0	0	0	0	0
159								
160		SUBTOTAL-TRANSM. MAINT. EXP.		379,534	209,901	59,886	108,346	1,400
161								
162		TOTAL TRANSMISSION EXPENSE		473,461	262,308	74,625	134,779	1,749
163								
164		DISTRIBUTION EXPENSE						
165								
166	580	Superv. & Engr.	NCP	658,069	356,196	99,795	199,849	2,228
167	582	Station Exp.	NCP	13,586	7,354	2,060	4,126	46
168	583	OH Line Exp	NCP	0	0	0	0	0
169	585	Street Lights/Signals	STREET LIGHTS	0	0	0	0	0

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Line No	FERC Account	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 3 - ALLOCATION OF OPERATION & MAINTENANCE EXPENSES								
170	586	Meter Expense	METERS	311,324	211,004	76,920	23,401	0
171	588	Misc. Dist'n Exp.	NCP	251,680	136,228	38,167	76,433	852
172								
173		SUBTOTAL-DISTRIBUTION OPERATING EXP.		1,234,658	710,782	216,942	303,809	3,126
174								
175	591	Structures Maint.	NCP	109,158	59,084	16,554	33,150	370
176	592	Station Equip Maint.	NCP	123,111	66,637	18,670	37,387	417
177	593	OH Line Maint.	ACCT 364 & 365	941,455	510,548	143,040	284,674	3,193
178	594	UG Line Maint.	ACCT 366 & 367	251,352	136,307	38,189	76,003	853
179	595	Transformer Maint	NCP-SEC	(35,503)	(19,398)	(5,435)	(10,549)	(121)
180	596	Street Light Maint.	STREET LIGHTS	97,153	0	0	0	97,153
181	597	Meter Maint.	METERS	29,940	20,292	7,397	2,250	0
182	598	Misc. Dist. Plant Maint.	NCP	30,240	16,368	4,586	9,184	102
183								
184		SUBTOTAL-DISTRIBUTION MAINT. EXP.		1,546,904	789,837	223,000	432,100	101,967
185								
186		TOTAL DISTRIBUTION EXP.		2,781,563	1,500,619	439,943	735,908	105,093
187								
188		CUSTOMER ACCOUNTS EXPENSES						
189								
190	902	Meter Reading	METER READ	133,856	72,509	54,465	6,881	0
191	903	Cust Records	CUST SERVICES	942,633	832,125	92,390	8,372	9,746
192	904	Uncollectible Accts	UNCOLL ACCTS	52,048	51,251	756	41	0
193	905	Misc. Cust. Accts	CUSTOMER ACCT	0	0	0	0	0
194	907	Customer Service/Information	CUST SERVICES	3,862	3,409	379	34	40
195								
196		TOTAL CUSTOMER ACCTS EXP.		1,132,399	959,295	147,990	15,328	9,786
197								
198		GENERAL & ADMINISTRATIVE EXPENSE						
199								
200	920	A&G Salaries	SAL & WAGES	1,866,215	1,004,085	306,052	533,580	22,498
201	921	Office Supplies	SAL & WAGES	232,553	125,121	38,138	66,490	2,804
202	922	Admin Exp Transferred	A&G OPERN	(288,403)	(155,210)	(47,142)	(82,965)	(3,086)
203	923	Outside Services	SAL & WAGES	257,091	138,323	42,162	73,506	3,099
204	924	Property Insurance	POWERPL & SS	189,985	91,911	32,190	65,239	646
205	925	Injuries & Damage	SAL & WAGES	1,203,080	647,296	197,301	343,979	14,504
206	926	Employee Benefits	SAL & WAGES	2,345,644	1,262,034	384,677	670,656	28,278
207	928	Regulatory Commission Exp.	NET PLANT	464,177	229,091	78,890	154,428	1,768
208	929	Duplicate Charges	SAL & WAGES	(2,496,510)	(1,343,204)	(409,418)	(713,791)	(30,097)
209	930	Advertising	CUST SERVICES	91,463	80,741	8,965	812	946
210	930	Misc. General Exp.	A&G OPERN	185,774	99,978	30,366	53,442	1,988
211								

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TEST YEAR 2015								
Line	FERC		Allocation	System	Residential	Sm. Comm.	Lrg. Comm.	Lighting
No	Account	Description	Basis	Total	Rate 10	Rate 20	Rate 24	Rate 46
SCHEDULE 3 - ALLOCATION OF OPERATION & MAINTENANCE EXPENSES								
212		SUBTOTAL-G&A OPERATING EXP.		4,051,070	2,180,165	662,180	1,165,377	43,348
213								
214	932	Maint. of General Plant	GENL PLANT	488,349	256,821	80,714	144,930	5,883
215								
216		TOTAL GENERAL & ADMINISTRATIVE EXPENSE		4,539,419	2,436,986	742,895	1,310,307	49,231
217								
218		TOTAL OPERATING & MAINTENANCE EXPENSE		21,830,613	10,988,216	3,672,375	6,962,511	207,511

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Line No	FERC Account	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 4 - ALLOCATION OF CURRENT DEPRECIATION EXPENSES								
1								
2								
3	302	Intangible Plant Depreciation	PTD PLANT	89,611	45,612	14,907	28,656	436
4								
5		PRODUCTION PLANT DEPRECIATION:						
6								
7		HYDRAULIC PRODUCTION PLANT:						
8								
9	330-6	LD / Gold Creek Hydraulic Production Plant						
10		ENERGY	100.0% ANNUAL KWH	1,645,313	733,664	290,850	615,545	5,254
11		Total LD /GC Hydraulic Production Plant		1,645,313	733,664	290,850	615,545	5,254
12								
13	330-6	Hydraulic Production Plant Excl. LD/GC						
14		DEMAND-Winter	9.0% CP	29,074	16,222	4,562	8,182	108
15		DEMAND-Summer	1.0% SUMM DMD	3,230	1,412	540	1,264	14
16		ENERGY-Winter	57.2% WINTER KWH	184,625	87,466	32,370	64,118	671
17		ENERGY-Summer	32.8% SUMMER KWH	106,117	42,180	19,026	44,655	258
18		Total Hydraulic Production Plant Excl. LD/GC		323,047	147,279	56,498	118,219	1,051
19								
20		TOTAL HYDRAULIC PROD. PLANT		1,968,360	880,943	347,348	733,764	6,305
21								
22		INTERNAL COMBUSTION PLANT:						
23								
24	340	Land and Land Rights						
25		DEMAND-Winter	90.0% CP	65	36	10	18	0
26		DEMAND-Summer	10.0% SUMM DMD	7	3	1	3	0
27		ENERGY-Winter	0.0% WINTER KWH	0	0	0	0	0
28		ENERGY-Summer	0.0% SUMMER KWH	0	0	0	0	0
29		Total Acct 340		72	39	11	21	0
30								
31	341	Structures & Improvements						
32		DEMAND-Winter	90.0% CP	123,485	68,898	19,377	34,751	458
33		DEMAND-Summer	10.0% SUMM DMD	13,721	5,997	2,293	5,370	61
34		ENERGY-Winter	0.0% WINTER KWH	0	0	0	0	0
35		ENERGY-Summer	0.0% SUMMER KWH	0	0	0	0	0
36		Total Acct 341		137,205	74,895	21,670	40,121	519
37								
38	342	Fuel Holders & Accessories						
39		DEMAND-Winter	0.0% CP	0	0	0	0	0
40		DEMAND-Summer	0.0% SUMM DMD	0	0	0	0	0
41		ENERGY-Winter	90.0% WINTER KWH	30,197	14,306	5,294	10,487	110
42		ENERGY-Summer	10.0% SUMMER KWH	3,355	1,334	602	1,412	8

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Line	FERC		Allocation	System	Residential	Sm. Comm.	Lrg. Comm.	Lighting
No	Account	Description	Basis	Total	Rate 10	Rate 20	Rate 24	Rate 46
SCHEDULE 4 - ALLOCATION OF CURRENT DEPRECIATION EXPENSES								
43		Total Acct 342		33,552	15,639	5,896	11,899	118
44								
45	343	Prime Movers						
46		Gas Turbines						
47		DEMAND-Winter	90.0% CP	133,372	74,415	20,929	37,533	495
48		DEMAND-Summer	10.0% SUMM DMD	14,819	6,477	2,476	5,800	66
49		Total Gas Turbines		148,192	80,892	23,405	43,334	561
50		Diesels						
51		DEMAND-Winter	90.0% CP	52,221	29,137	8,195	14,696	194
52		DEMAND-Summer	10.0% SUMM DMD	5,802	2,536	970	2,271	26
53		Total Diesels		58,023	31,672	9,164	16,967	220
54		Total Acct 343		206,215	112,564	32,569	60,300	780
55								
56	344	Generators						
57		DEMAND-Winter	90.0% CP	131,004	73,094	20,557	36,867	486
58		DEMAND-Summer	10.0% SUMM DMD	14,556	6,362	2,432	5,697	65
59		Total Acct 345		145,560	79,455	22,990	42,564	551
60								
61	345	Accessory Electric Equip						
62		DEMAND-Winter	90.0% CP	37,572	20,963	5,896	10,574	139
63		DEMAND-Summer	10.0% SUMM DMD	4,175	1,825	698	1,634	19
64		Total Acct 345		41,747	22,788	6,593	12,207	158
65								
66	346	Misc Power Plant Equip						
67		DEMAND-Winter	90.0% CP	9,559	5,333	1,500	2,690	35
68		DEMAND-Summer	10.0% SUMM DMD	1,062	464	177	416	5
69		Total Acct 346		10,621	5,798	1,677	3,106	40
70								
71		TOTAL INTERNAL COMBUSTION PLANT		574,972	311,179	91,407	170,218	2,167
72								
73		TOTAL PRODUCTION PLANT		2,543,332	1,192,121	438,755	903,983	8,472
74								
75	TRANSMISSION PLANT							
76								
77	General System Excluding Lake Dorothy							
78	352	Structures & Improvements	CP	12,732	7,104	1,998	3,583	47
79	353	Station Equip	CP	165,166	92,154	25,918	46,481	613
80	354	Towers & Fixtures	CP	94,440	52,693	14,820	26,577	351
81	355	Poles & Fixtures	CP	252,518	140,892	39,625	71,063	937
82	356	Overhead Conductors	CP	132,781	74,085	20,836	37,367	493
83	357	Underground Conduit	CP	5,868	3,274	921	1,651	22
84	358	Underground Conductors	CP	61,968	34,575	9,724	17,439	230

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Line No	FERC Account	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 4 - ALLOCATION OF CURRENT DEPRECIATION EXPENSES								
85	359	Roads & Trails	CP	908	506	142	255	3
86		Total General System Excl. Lake Dorothy		726,381	405,284	113,984	204,417	2,696
87								
88		Lake Dorothy Transmission	ANNUAL KWH	275,156	122,695	48,641	102,941	879
89								
90		TOTAL TRANSMISSION PLANT		1,001,537	527,979	162,625	307,358	3,575
91								
92		DISTRIBUTION PLANT						
93								
94	361	Structures & Improvements	NCP	5,372	2,908	815	1,631	18
95	362	Station Equipment	NCP	146,442	79,265	22,208	44,473	496
96	364	Poles, Towers, Fixtures	ACCT 364	259,986	140,989	39,501	78,614	882
97	365	Overhead Conductors	ACCT 365	212,044	114,991	32,217	64,117	719
98	366	Underground Conduit	ACCT 366	46,617	25,280	7,083	14,096	158
99	367	Underground Conductors	ACCT 367	90,945	49,319	13,818	27,500	308
100	368	Line Transformers	NCP-SEC	203,364	111,114	31,131	60,424	695
101	369	Services	SERVICES	150,482	126,888	17,610	5,984	0
102	370	Meters	METERS	190,827	129,335	47,148	14,344	0
103	371	Inst. on Cust. Premises	NCP	0	0	0	0	0
104	372	Leased Property	NCP	0	0	0	0	0
105	373	Street Lighting	STREET LIGHTS	4,500	0	0	0	4,500
106								
107		TOTAL DISTRIBUTION PLANT		1,310,579	780,090	211,530	311,183	7,777
108								
109		TOTAL PTD PLANT		4,855,448	2,500,190	812,910	1,522,524	19,823
110								
111		GENERAL PLANT						
112								
113	390	Structures & Improvements	SAL & WAGES	190,944	102,734	31,314	54,594	2,302
114	391	Office Furn. & Equip.	SAL & WAGES	109,113	58,706	17,894	31,197	1,315
115	392	Transportation Equip*	SAL & WAGES	0	0	0	0	0
116	393	Stores Equip.	MATL & SUPP	6,936	3,540	1,134	2,238	24
117	394	Tools, Shop, Garage Equip.	PTD S&W	36,732	18,301	6,181	11,790	459
118	395	Laboratory Equip.	ANNUAL KWH	3,432	1,530	607	1,284	11
119	396	Power Operated Equip.	PTD S&W	33,477	16,679	5,634	10,746	418
120	397	Communication Equip.	PTD S&W	150,243	74,856	25,284	48,226	1,877
121	398	Misc. Equipment	ACCTS 391-397	1,848	953	307	565	22
122	399	Other Tangible Property	PTD S&W	0	0	0	0	0
123								
124		TOTAL GENERAL PLANT		532,725	277,301	88,355	160,640	6,429
125								
126		TOTAL DEPRECIATION EXPENSE		5,477,784	2,823,103	916,172	1,711,820	26,688

ALASKA ELECTRIC LIGHT AND POWER COMPANY
SEASONAL COST-OF-SERVICE STUDY
2015 TEST YEAR

TEST YEAR 2015

Line No	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 5 - ALLOCATION OF TAXES OTHER THAN INCOME TAX							
1							
2							
3	PROPERTY TAXES						
4							
5	Production Plant	68.84% NET PROD PLT	737,665	346,877	127,044	261,280	2,464
6	Transmission Plant	12.07% NET TRANSM PLT	129,333	65,962	21,393	41,526	451
7	Distribution Plant	12.80% NET DISTN PLT	137,170	79,793	22,687	34,368	322
8	General Plant	6.29% NET GENL PLT	67,356	35,708	11,104	19,732	811
9		100.00%					
10	TOTAL PROPERTY TAXES		1,071,523	528,340	182,230	356,906	4,048
11							
12	PAYROLL & SOCIAL SECURITY TAXES	SAL & WAGES	(10,177)	(5,476)	(1,669)	(2,910)	(123)
13							
14	OTHER TAXES	SAL & WAGES	50	27	8	14	1
15							
16	TOTAL TAXES OTHER THAN INCOME TAX		1,061,396	522,892	180,569	354,010	3,926

ALASKA ELECTRIC LIGHT AND POWER COMPANY
SEASONAL COST-OF-SERVICE STUDY
2015 TEST YEAR

TEST YEAR 2015

Line No	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 9 - SUMMARY-TOTAL PLANT AND RATE BASE							
1							
2							
3	ELECTRIC PLANT IN SERVICE						
4							
5	Intangible Plant	SCHEDULE 10	4,514,764	2,298,007	751,046	1,443,761	21,950
6	Production Plant	SCHEDULE 10	127,202,547	60,781,118	21,726,745	44,264,035	430,649
7	Transmission Plant	SCHEDULE 10	29,138,335	15,292,867	4,743,387	8,998,396	103,686
8	Distribution Plant	SCHEDULE 10	47,706,838	27,785,964	7,473,896	11,989,287	457,691
9	General Plant	SCHEDULE 10	17,396,762	9,148,902	2,875,338	5,162,942	209,580
10							
11	TOTAL PLANT IN SERVICE		225,959,246	115,306,857	37,570,412	71,858,421	1,223,556
12							
13	ACCUMULATED PROV. FOR DEPRECIAT	SCHEDULE 11	93,427,651	49,897,087	15,045,732	27,766,118	718,714
14							
15	NET PLANT INVESTMENT		132,531,595	65,409,770	22,524,680	44,092,303	504,841
16							
17							
18	ADD:						
19	Materials & Supplies	SCHEDULE 15	2,155,182	1,099,884	352,379	695,379	7,539
20	Working Capital	SCHEDULE 15	2,669,458	1,411,812	438,907	785,873	32,867
21	Prepayments	SCHEDULE 15	496,853	245,217	84,444	165,300	1,893
22	Unamortized Overhauls	SCHEDULE 15	1,950,212	909,035	342,702	691,623	6,851
23	Unamortized Dam Costs	SCHEDULE 15	415,797	189,565	72,719	152,161	1,352
24							
25	DEDUCT:						
26	Accum Def. Income Tax	DEPRN EXP	17,002,740	8,762,757	2,843,748	5,313,394	82,839
27	Accum Def ITC	TOTAL PLANT	0	0	0	0	0
28	Customer Deposits	CUST DEP	179,456	167,692	11,764	0	0
29							
30	RATE BASE		123,036,902	60,334,833	20,960,319	41,269,245	472,505

ALASKA ELECTRIC LIGHT AND POWER COMPANY
SEASONAL COST-OF-SERVICE STUDY
2015 TEST YEAR

TEST YEAR 2015

Line No	FERC Account	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 10 - ALLOCATION OF ELECTRIC PLANT IN SERVICE								
1								
2								
3	302	Intangible Plant	PTD PLANT	4,514,764	2,298,007	751,046	1,443,761	21,950
4								
5		PRODUCTION PLANT:						
6								
7		HYDRAULIC PRODUCTION PLANT:						
8								
9	330-6	LD / Gold Creek Hydraulic Production Plant						
10		ENERGY	100.0% ANNUAL KWH	84,085,392	37,494,617	14,864,180	31,458,071	268,524
11		Total LD /GC Hydraulic Production Plant		84,085,392	37,494,617	14,864,180	31,458,071	268,524
12								
13	330-6	Hydraulic Production Plant Excl. LD/GC						
14		DEMAND-Winter	9.0% CP	85,850	47,900	13,472	24,160	319
15		DEMAND-Summer	1.0% SUMM DMD	9,539	4,169	1,594	3,733	42
16		ENERGY - Winter	57.2% WINTER KWH	545,160	258,269	95,583	189,328	1,981
17		ENERGY-Summer	32.8% SUMMER KWH	313,344	124,548	56,179	131,856	761
18		Total Hydraulic Production Plant Excl. LD/GC		953,893	434,886	166,828	349,077	3,103
19								
20		TOTAL HYDRAULIC PROD. PLANT		85,039,286	37,929,503	15,031,008	31,807,148	271,627
21								
22		INTERNAL COMBUSTION PLANT:						
23								
24	340	Land and Land Rights						
25		DEMAND-Winter	90.0% CP	1,892,546	1,055,946	296,980	532,597	7,024
26		DEMAND-Summer	10.0% SUMM DMD	210,283	91,906	35,140	82,303	935
27		ENERGY-Winter	0.0% WINTER KWH	0	0	0	0	0
28		ENERGY-Summer	0.0% SUMMER KWH	0	0	0	0	0
29		Total Acct 340		2,102,829	1,147,851	332,119	614,900	7,959
30								
31	341	Structures & Improvements						
32		DEMAND-Winter	90.0% CP	4,425,346	2,469,121	694,428	1,245,373	16,425
33		DEMAND-Summer	10.0% SUMM DMD	491,705	214,903	82,168	192,449	2,186
34		ENERGY-Winter	0.0% WINTER KWH	0	0	0	0	0
35		ENERGY-Summer	0.0% SUMMER KWH	0	0	0	0	0
36		Total Acct 341		4,917,052	2,684,024	776,596	1,437,822	18,610
37								
38	342	Fuel Holders & Accessories						
39		DEMAND-Winter	0.0% CP	0	0	0	0	0
40		DEMAND-Summer	0.0% SUMM DMD	0	0	0	0	0
41		ENERGY-Winter	90.0% WINTER KWH	1,846,978	875,001	323,830	641,434	6,712
42		ENERGY-Summer	10.0% SUMMER KWH	205,220	81,571	36,794	86,357	498

ALASKA ELECTRIC LIGHT AND POWER COMPANY
SEASONAL COST-OF-SERVICE STUDY
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TEST YEAR 2015

Line No	FERC Account	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 10 - ALLOCATION OF ELECTRIC PLANT IN SERVICE								
43		Total Acct 342		2,052,197	956,572	360,624	727,792	7,210
44								
45	343	Prime Movers						
46		Gas Turbines						
47		DEMAND-Winter	90.0% CP	16,070,070	8,966,290	2,521,725	4,522,410	59,644
48		DEMAND-Summer	10.0% SUMM DMD	1,785,563	780,393	298,381	698,853	7,936
49		Total Gas Turbines		17,855,634	9,746,684	2,820,106	5,221,264	67,580
50		Diesels						
51		DEMAND-Winter	90.0% CP	6,516,871	3,636,086	1,022,631	1,833,966	24,187
52		DEMAND-Summer	10.0% SUMM DMD	724,097	316,472	121,002	283,405	3,218
53		Total Diesels		7,240,968	3,952,558	1,143,633	2,117,371	27,406
54		Total Acct 343		25,096,602	13,699,241	3,963,739	7,338,635	94,986
55								
56	344	Generators						
57		DEMAND-Winter	90.0% CP	4,478,763	2,498,924	702,810	1,260,405	16,623
58		DEMAND-Summer	10.0% SUMM DMD	497,640	217,497	83,159	194,772	2,212
59		Total Acct 344		4,976,403	2,716,422	785,970	1,455,177	18,835
60								
61	345	Accessory Electric Equip						
62		DEMAND-Winter	90.0% CP	2,147,704	1,198,311	337,019	604,403	7,971
63		DEMAND-Summer	10.0% SUMM DMD	238,634	104,297	39,877	93,399	1,061
64		Total Acct 345		2,386,338	1,302,607	376,897	697,802	9,032
65								
66	346	Misc Power Plant Equip						
67		DEMAND-Winter	90.0% CP	568,656	317,281	89,234	160,030	2,111
68		DEMAND-Summer	10.0% SUMM DMD	63,184	27,615	10,559	24,730	281
69		Total Acct 346		631,840	344,896	99,792	184,760	2,391
70								
71		TOTAL INTERNAL COMBUSTION PLANT		42,163,261	22,851,614	6,695,737	12,456,887	159,023
72								
73		TOTAL PRODUCTION PLANT		127,202,547	60,781,118	21,726,745	44,264,035	430,649
74								
75		TRANSMISSION PLANT						
76								
77		General System Excluding Lake Dorothy						
78	350	Land and Land Rights	CP	22,837	12,742	3,584	6,427	85
79	352	Structures & Improvements	CP	1,223,805	682,822	192,040	344,401	4,542
80	353	Station Equip	CP	5,725,740	3,194,675	898,487	1,611,327	21,251
81	354	Towers & Fixtures	CP	1,931,592	1,077,731	303,107	543,585	7,169
82	355	Poles & Fixtures	CP	5,399,797	3,012,815	847,340	1,519,601	20,041
83	356	Overhead Conductors	CP	3,659,623	2,041,885	574,270	1,029,884	13,583
84	357	Underground Conduit	CP	373,574	208,435	58,621	105,130	1,387

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Line No	FERC Account	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 10 - ALLOCATION OF ELECTRIC PLANT IN SERVICE								
85	358	Underground Conductors	CP	2,151,788	1,200,590	337,660	605,552	7,986
86	359	Roads & Trails	CP	37,736	21,055	5,922	10,620	140
87		Total General System Excl. Lake Dorothy		20,526,492	11,452,750	3,221,030	5,776,529	76,184
88								
89		Lake Dorothy Transmission	ANNUAL KWH	8,611,843	3,840,117	1,522,357	3,221,867	27,502
90								
91		TOTAL TRANSMISSION PLANT		29,138,335	15,292,867	4,743,387	8,998,396	103,686
92								
93		DISTRIBUTION PLANT						
94								
95	360	Land and Land Rights						
96		Primary	90.0% NCP	218,638	118,343	33,156	66,398	740
97		Secondary	10.0% NCP-SEC	24,293	13,273	3,719	7,218	83
98		Total Acct 360		242,931	131,616	36,875	73,616	823
99								
100	361	Structures & Improvements	NCP	597,133	323,213	90,554	181,343	2,022
101	362	Station Equipment	NCP	5,774,716	3,125,710	875,729	1,753,726	19,551
102	364	Poles, Towers, Fixtures						
103		Primary	80.0% NCP	3,817,211	2,066,162	578,876	1,159,251	12,923
104		Secondary	20.0% NCP-SEC	954,303	521,413	146,084	283,544	3,261
105		Total Acct 364		4,771,514	2,587,575	724,960	1,442,795	16,185
106								
107	365	Overhead Conductors						
108		Primary	80.0% NCP	7,781,469	4,211,916	1,180,051	2,363,158	26,344
109		Secondary	20.0% NCP-SEC	1,945,367	1,062,912	297,796	578,011	6,648
110		Total Acct 365		9,726,836	5,274,828	1,477,847	2,941,169	32,993
111								
112	366	Underground Conduit						
113		Primary	80.0% NCP	2,019,432	1,093,068	306,245	613,282	6,837
114		Secondary	20.0% NCP-SEC	504,858	275,845	77,283	150,004	1,725
115		Total Acct 366		2,524,290	1,368,913	383,528	763,287	8,562
116								
117	367	Underground Conductors						
118		Primary	80.0% NCP	5,282,760	2,859,427	801,124	1,604,324	17,885
119		Secondary	20.0% NCP-SEC	1,320,690	721,600	202,170	392,406	4,513
120		Total Acct 367		6,603,450	3,581,027	1,003,295	1,996,729	22,398
121								
122	368	Line Transformers	NCP-SEC	7,743,298	4,230,793	1,185,340	2,300,703	26,463
123	369	Services	SERVICES	4,807,668	4,053,860	562,619	191,188	0
124	370	Meters	METERS	4,586,309	3,108,428	1,133,150	344,731	0
125	371	Inst. on Cust. Premises	NCP	0	0	0	0	0
126	372	Leased Property	NCP	0	0	0	0	0

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Line No	FERC Account	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 10 - ALLOCATION OF ELECTRIC PLANT IN SERVICE								
127	373	Street Lighting	STREET LIGHTS	328,695	0	0	0	328,695
128								
129		TOTAL DISTRIBUTION PLANT		47,706,838	27,785,964	7,473,896	11,989,287	457,691
130								
131		TOTAL PTD PLANT		204,047,721	103,859,948	33,944,028	65,251,718	992,026
132								
133		GENERAL PLANT						
134								
135	389	Land and Land Rights	GENL PLANT	29,839	15,692	4,932	8,856	359
136	390	Structures & Improvements	SAL & WAGES	7,858,014	4,227,869	1,288,685	2,246,727	94,733
137	391	Office Furn. & Equip.	SAL & WAGES	1,466,253	788,892	240,460	419,224	17,677
138	392	Transportation Equip.	SAL & WAGES	2,798,324	1,505,590	458,915	800,084	33,735
139	393	Stores Equip.	MATL & SUPP	187,322	95,599	30,628	60,440	655
140	394	Tools, Shop, Garage Equip.	PTD S&W	551,686	274,869	92,840	177,083	6,893
141	395	Laboratory Equip.	ANNUAL KWH	82,514	36,794	14,586	30,870	264
142	396	Power Operated Equip.	PTD S&W	675,068	336,342	113,604	216,687	8,435
143	397	Communication Equip.	PTD S&W	3,701,540	1,844,235	622,913	1,188,141	46,251
144	398	Other Tangible Prop.	PTD S&W	46,201	23,019	7,775	14,830	577
145	399	Misc. Equip.	ACCTS 391-397	0	0	0	0	0
146								
147		TOTAL GENERAL PLANT		17,396,762	9,148,902	2,875,338	5,162,942	209,580
148								
149		TOTAL PLANT IN SERVICE		225,959,246	115,306,857	37,570,412	71,858,421	1,223,556

ALASKA ELECTRIC LIGHT AND POWER COMPANY
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Line No	FERC Account	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 11 - ALLOCATION OF ACCUMULATED PROVISION FOR DEPRECIATION								
1								
2								
3	302	Intangible Plant Depreciation	PTD PLANT	629,509	320,419	104,721	201,309	3,061
4								
5		PRODUCTION PLANT DEPRECIATION:						
6								
7		HYDRAULIC PRODUCTION PLANT:						
8								
9	330-6	LD / Gold Creek Hydraulic Production Plant						
10		ENERGY	100.0% ANNUAL KWH	13,715,463	6,115,878	2,424,549	5,131,236	43,800
11		Total LD /GC Hydraulic Production Plant		13,715,463	6,115,878	2,424,549	5,131,236	43,800
12								
13	330-6	Hydraulic Production Plant Excl. LD/GC						
14		DEMAND-Winter	9.0% CP	509,555	284,306	79,960	143,398	1,891
15		DEMAND-Summer	1.0% SUMM DMD	56,617	24,745	9,461	22,159	252
16		ENERGY-Winter	57.2% WINTER KWH	3,235,737	1,532,923	567,321	1,123,735	11,758
17		ENERGY-Summer	32.8% SUMMER KWH	1,859,815	739,241	333,444	782,616	4,514
18		Total Hydraulic Production Plant Excl. LD/GC		5,661,725	2,581,215	990,186	2,071,908	18,415
19								
20		TOTAL HYDRAULIC PROD. PLANT		19,377,188	8,697,093	3,414,735	7,203,144	62,215
21								
22		INTERNAL COMBUSTION PLANT:						
23								
24	340	Land and Land Rights						
25		DEMAND-Winter	90.0% CP	10,825	6,040	1,699	3,046	40
26		DEMAND-Summer	10.0% SUMM DMD	1,203	526	201	471	5
27		ENERGY-Winter	0.0% WINTER KWH	0	0	0	0	0
28		ENERGY-Summer	0.0% SUMMER KWH	0	0	0	0	0
29		Total Acct 340		12,028	6,565	1,900	3,517	46
30								
31	341	Structures & Improvements						
32		DEMAND-Winter	90.0% CP	1,296,816	723,558	203,497	364,948	4,813
33		DEMAND-Summer	10.0% SUMM DMD	144,091	62,976	24,079	56,396	640
34		ENERGY-Winter	0.0% WINTER KWH	0	0	0	0	0
35		ENERGY-Summer	0.0% SUMMER KWH	0	0	0	0	0
36		Total Acct 341		1,440,907	786,534	227,576	421,343	5,454
37								
38	342	Fuel Holders & Accessories						
39		DEMAND-Winter	0.0% CP	0	0	0	0	0
40		DEMAND-Summer	0.0% SUMM DMD	0	0	0	0	0
41		ENERGY-Winter	90.0% WINTER KWH	858,168	406,555	150,462	298,032	3,118
42		ENERGY-Summer	10.0% SUMMER KWH	95,352	37,901	17,096	40,124	231

ALASKA ELECTRIC LIGHT AND POWER COMPANY
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Line No	FERC Account	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 11 - ALLOCATION OF ACCUMULATED PROVISION FOR DEPRECIATION								
43		Total Acct 342		953,519	444,455	167,558	338,156	3,350
44								
45	343	Prime Movers						
46		Gas Turbines						
47		DEMAND-Winter	90.0% CP	7,850,609	4,380,245	1,231,922	2,209,304	29,137
48		DEMAND-Summer	10.0% SUMM DMD	872,290	381,240	145,766	341,406	3,877
49		Total Gas Turbines		8,722,899	4,761,485	1,377,688	2,550,711	33,015
50		Diesels						
51		DEMAND-Winter	90.0% CP	5,833,235	3,254,652	915,355	1,641,579	21,650
52		DEMAND-Summer	10.0% SUMM DMD	648,137	283,273	108,308	253,675	2,881
53		Total Diesels		6,481,373	3,537,925	1,023,663	1,895,254	24,531
54		Total Acct 343		15,204,271	8,299,410	2,401,352	4,445,964	57,545
55								
56	345	Accessory Electric Equip						
57		DEMAND-Winter	90.0% CP	1,123,708	626,972	176,333	316,232	4,171
58		DEMAND-Summer	10.0% SUMM DMD	124,856	54,569	20,864	48,868	555
59		Total Acct 345		1,248,564	681,542	197,197	365,099	4,726
60								
61	346	Misc Power Plant Equip						
62		DEMAND-Winter	90.0% CP	362,272	202,129	56,848	101,950	1,345
63		DEMAND-Summer	10.0% SUMM DMD	40,252	17,593	6,726	15,754	179
64		Total Acct 346		402,524	219,722	63,574	117,704	1,523
65								
66		TOTAL INTERNAL COMBUSTION PLANT		19,261,814	10,438,229	3,059,157	5,691,785	72,644
67								
68		TOTAL PRODUCTION PLANT		38,639,001	19,135,322	6,473,892	12,894,929	134,859
69								
70		TRANSMISSION PLANT						
71								
72		General System Excluding Lake Dorothy						
73	352	Structures & Improvements	CP	982,553	548,215	154,183	276,508	3,647
74	353	Station Equip	CP	2,336,998	1,303,927	366,723	657,674	8,674
75	354	Towers & Fixtures	CP	391,539	218,459	61,441	110,186	1,453
76	355	Poles & Fixtures	CP	3,775,702	2,106,651	592,485	1,062,551	14,013
77	356	Overhead Conductors	CP	2,993,842	1,670,413	469,796	842,522	11,112
78	357	Underground Conduit	CP	213,488	119,116	33,501	60,079	792
79	358	Underground Conductors	CP	932,043	520,033	146,257	262,294	3,459
80	359	Roads & Trails	CP	15,203	8,482	2,386	4,278	56
81		Total General System Excl. Lake Dc	CP	11,641,369	6,495,298	1,826,771	3,276,093	43,207
82								
83		Lake Dorothy Transmission	ANNUAL KWH	1,969,351	878,156	348,132	736,775	6,289
84								

ALASKA ELECTRIC LIGHT AND POWER COMPANY
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TEST YEAR 2015

Line No	FERC Account	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 11 - ALLOCATION OF ACCUMULATED PROVISION FOR DEPRECIATION								
85		TOTAL TRANSMISSION PLANT		13,610,719	7,373,453	2,174,902	4,012,868	49,496
86								
87		DISTRIBUTION PLANT						
88								
89	361	Structures & Improvements	NCP	510,680	276,418	77,444	155,089	1,729
90	362	Station Equipment	NCP	3,514,486	1,902,304	532,968	1,067,316	11,898
91	364	Poles, Towers, Fixtures	ACCT 364	3,477,670	1,885,928	528,380	1,051,567	11,796
92	365	Overhead Conductors	ACCT 365	7,012,503	3,802,855	1,065,444	2,120,418	23,786
93	366	Underground Conduit	ACCT 366	1,819,303	986,601	276,416	550,115	6,171
94	367	Underground Conductors	ACCT 367	4,252,704	2,306,226	646,135	1,285,919	14,425
95	368	Line Transformers	NCP-SEC	4,475,907	2,445,552	685,169	1,329,890	15,296
96	369	Services	SERVICES	3,880,219	3,271,829	454,084	154,306	0
97	370	Meters	METERS	1,956,161	1,325,812	483,313	147,035	0
98	371	Inst. on Cust. Premises	NCP	4,759	2,576	722	1,445	16
99	372	Leased Property	NCP	(11)	(6)	(2)	(3)	(0)
100	373	Street Lighting	STREET LIGHTS	333,953	0	0	0	333,953
101								
102		TOTAL DISTRIBUTION PLANT		31,238,334	18,206,095	4,750,073	7,863,095	419,071
103								
104		TOTAL PTD PLANT		83,488,055	44,714,871	13,398,867	24,770,891	603,425
105								
106		GENERAL PLANT						
107								
108	390	Structures & Improvements	SAL & WAGES	3,642,025	1,959,529	597,278	1,041,311	43,907
109	391	Office Furn. & Equip.	SAL & WAGES	550,918	296,412	90,348	157,516	6,642
110	392	Transportation Equip	SAL & WAGES	1,381,038	743,044	226,485	394,860	16,649
111	393	Stores Equip.	MATL & SUPP	169,788	86,650	27,761	54,783	594
112	394	Tools, Shop, Garage Equip.	PTD S&W	286,441	142,715	48,204	91,943	3,579
113	395	Laboratory Equip.	ANNUAL KWH	13,385	5,968	2,366	5,008	43
114	396	Power Operated Equip.	PTD S&W	283,626	141,312	47,730	91,040	3,544
115	397	Communication Equip.	PTD S&W	2,975,579	1,482,536	500,745	955,118	37,180
116	398	Other Tangible Prop.	PTD S&W	7,288	3,631	1,226	2,339	91
117	399	Misc. Equip.	ACCTS 391-397	0	0	0	0	0
118								
119		TOTAL GENERAL PLANT		9,310,087	4,861,797	1,542,144	2,793,917	112,229
120								
121		TOTAL ACCUMULATED DEPRECIATION		93,427,651	49,897,087	15,045,732	27,766,118	718,714

ALASKA ELECTRIC LIGHT AND POWER COMPANY
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TEST YEAR 2015

Line No		Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 15 - ALLOCATION OF MATERIALS, SUPPLIES AND WORKING CAPITAL, UNAMORTIZED OVERHAULS AND OTHER							
1							
2							
3	MATERIALS & SUPPLIES						
4							
5	Fuel						
6	ENERGY-Winter	90.0% WINTER KWH	877,746	415,830	153,895	304,831	3,190
7	ENERGY-Summer	10.0% SUMMER KWH	97,527	38,765	17,486	41,040	237
8	Total Fuel		975,273	454,595	171,381	345,871	3,426
9							
10	Line Materials	ACCT 356-8 & 365	988,486	539,874	151,403	293,778	3,431
11	Pole Stock	ACCT 355 & 364	195,674	107,739	30,248	56,990	697
12	Other	LINES-POLES-TR	(4,251)	(2,325)	(652)	(1,260)	(15)
13							
14	TOTAL MATERIALS & SUPPLIES		2,155,182	1,099,884	352,379	695,379	7,539
15							
16	WORKING CAPITAL						
17							
18	12.5% of O&M Less Fuel & Purch. Pw O&M - FUEL & PP		2,669,458	1,411,812	438,907	785,873	32,867
19							
20	Prepayments	NET PLANT	496,853	245,217	84,444	165,300	1,893
21							
22	TOTAL MATERIALS, SUPPLIES & WORKING CAPITAL		5,321,493	2,756,913	875,730	1,646,552	42,299
23							
24	UNAMORTIZED OVERHAULS						
25	Unamortized Overhauls of Diesel units						
26	ENERGY-Winter	90.0% WINTER KWH	1,755,190	831,518	307,737	609,558	6,378
27	ENERGY-Summer	10.0% SUMMER KWH	195,021	77,517	34,965	82,065	473
28	TOTAL UNAMORTIZED OVERHAULS		1,950,212	909,035	342,702	691,623	6,851

ALASKA ELECTRIC LIGHT AND POWER COMPANY
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TEST YEAR 2015

Line No		Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
1	SCHEDULE 16 - ALLOCATION OF WAGES AND SALARIES						
2							
3	Power Production						
4	Operation	PROD OP EXP - FI	1,615,694	748,233	280,381	581,755	5,324
5	Maintenance	POWER PROD MA	276,342	138,271	46,017	91,083	972
6	Total		1,892,036	886,504	326,398	672,838	6,296
7							
8	Transmission						
9	Operation	TRANSM OP	0	0	0	0	0
10	Maintenance	TRANSM MAINT	125,430	69,369	19,791	35,807	463
11	Total		125,430	69,369	19,791	35,807	463
12							
13	Distribution						
14	Operation	DISTN OP	564,559	325,011	99,199	138,919	1,429
15	Maintenance	DISTN MAINT	450,657	230,102	64,966	125,883	29,706
16	Total		1,015,215	555,113	164,165	264,802	31,135
17							
18	TOTAL PTD WAGES & SALARIES		3,032,681	1,510,986	510,354	973,447	37,894
19							
20	Customer Accounts	CUSTOMER ACC1	566,121	479,581	73,985	7,663	4,892
21	Admin. & General	PTD S&W	1,364,209	679,696	229,576	437,891	17,046
22							
23	TOTAL SALARIES & WAGES		4,963,011	2,670,263	813,915	1,419,001	59,832

ALASKA ELECTRIC LIGHT AND POWER COMPANY
SEASONAL COST-OF-SERVICE STUDY
2015 TEST YEAR

TEST YEAR 2015

Line No.		Allocation Basis	System Total	Residential Rate 10	Small Commercial Rate 20	Large Commercial Rate 24	Lighting Rate 46
SCHEDULE 17 - ALLOCATION FACTORS							
1							
2							
3	ENERGY (Units = KWH at Input)						
4							
5	Annual	ANNUAL KWH	331,115,009	147,647,887	58,532,797	123,876,919	1,057,405
6	Winter	WINTER KWH	210,262,031	99,611,163	36,865,191	73,021,623	764,055
7	Summer	SUMMER KWH	120,852,978	48,036,725	21,667,607	50,855,296	293,350
8							
9	DEMAND						
10	Average & Excess Demand	AED	66,791	35,498	10,301	20,767	225
11	Non-Coincident Peak Dmd	NCP	73,222	39,633	11,104	22,237	248
12	NCP Demand-Secondary	NCP-SEC	72,537	39,633	11,104	21,552	248
13	Contrib'n to System Peak	CP	66,791	37,266	10,481	18,796	248
14	Summer Demand	SUMM DMD	51,167	22,363	8,550	20,026	227
15							
16	CUSTOMERS						
17	Service Drops	SERVICES	16,903	14,253	1,978	672	0
18	Meters	METERS	21,049	14,266	5,201	1,582	0
19	Meter Reading	METER READ	26,286	14,239	10,696	1,351	0
20	Customer Services	CUST SERVICES	16,146	14,253	1,582	143	167
21	Average Customers	AVG CUST	16,619	14,253	1,978	179	209
22	Customer Deposits	CUST DEP	505,299	472,174	33,125	0	0
23							
24	DIRECT ASSIGNMENTS						
25	Street Lighting	STREET LIGHTS	1	0	0	0	1
26	Misc. Service Revenues	MISC SVC REV	227,071	208,231	13,926	4,914	0
27	Uncollectable Accounts	UNCOLL ACCTS	62,835	61,873	913	49	0
28							
29							
30	OTHER FACTORS						
31	Total Production Plant	PROD PLANT	127,202,547	60,781,118	21,726,745	44,264,035	430,649
32	Hydro Production Plant	HYDRO PLANT	85,039,286	37,929,503	15,031,008	31,807,148	271,627
33	Transmission Plant	TRANSM PLANT	29,138,335	15,292,867	4,743,387	8,998,396	103,686
34	Distribution Plant	DISTN PLANT	47,706,838	27,785,964	7,473,896	11,989,287	457,691
35	Transmission/Dist'n Plant	T&D PLANT	76,845,173	43,078,831	12,217,283	20,987,683	561,377
36	PTD Plant	PTD PLANT	204,047,721	103,859,948	33,944,028	65,251,718	992,026
37	General Plant	GENL PLANT	17,366,922	9,133,209	2,870,406	5,154,087	209,220
38	Net Plant	NET PLANT	132,531,595	65,409,770	22,524,680	44,092,303	504,841
39	Rate Base	RATE BASE	123,036,902	60,334,833	20,960,319	41,269,245	472,505
40	Total Plant	TOTAL PLANT	225,959,246	115,306,857	37,570,412	71,858,421	1,223,556
41	Acct 364 (Poles & Towers)	ACCT 364	4,771,514	2,587,575	724,960	1,442,795	16,185
42	Acct 366 (UG Conduit)	ACCT 366	2,524,290	1,368,913	383,528	763,287	8,562

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TEST YEAR 2015

Line No.		Allocation Basis	System Total	Residential Rate 10	Small Commercial Rate 20	Large Commercial Rate 24	Lighting Rate 46
SCHEDULE 17 - ALLOCATION FACTORS							
43	Acct 365 (OH Conductors)	ACCT 365	9,726,836	5,274,828	1,477,847	2,941,169	32,993
44	Acct 367 (UG Conductors)	ACCT 367	6,603,450	3,581,027	1,003,295	1,996,729	22,398
45	Salaries & Wages	SAL & WAGES	4,963,011	2,670,263	813,915	1,419,001	59,832
46	PTD Salaries & Wages	PTD S&W	3,032,681	1,510,986	510,354	973,447	37,894
47	Acct 924 + Salaries & Wages	ACCT 924+S&W	5,152,997	2,762,174	846,105	1,484,240	60,478
48	Power Plants & Substations	POWERPL & SS	138,703,002	67,101,502	23,500,960	47,629,088	471,451
49	Net Production Plant	NET PROD PLT	88,563,546	41,645,796	15,252,853	31,369,106	295,791
50	Net Transmission Plant	NET TRANSM PLT	15,527,616	7,919,413	2,568,484	4,985,528	54,190
51	Net Distribution Plant	NET DISTN PLT	16,468,505	9,579,868	2,723,824	4,126,192	38,620
52	Net General Plant	NET GENL PLT	8,086,675	4,287,105	1,333,194	2,369,025	97,351
53	Accts 391-397	ACCTS 391-397	9,462,708	4,882,321	1,573,946	2,892,530	113,910
54	Materials & Supplies	MATL & SUPP	2,155,182	1,099,884	352,379	695,379	7,539
55	Accts 356-8 & 365-7	ACCT 356-8 & 365	25,039,560	13,675,679	3,835,221	7,441,752	86,909
56	Accts 355 & 364	ACCT 355 & 364	10,171,312	5,600,390	1,572,299	2,962,396	36,226
57	Lines, Poles, Transform	LINES-POLES-TR	37,904,517	20,728,923	5,813,051	11,230,881	131,662
58	Power Production Maint	POWER PROD MA	844,575	422,592	140,639	278,374	2,970
59	Power Production Exp	POWER PROD EX	12,903,771	5,829,008	2,266,922	4,766,188	41,652
60	O&M less Fuel & PP	O&M - FUEL & PP	15,111,298	7,991,999	2,484,569	4,448,677	186,053
61	Prod'cn Oper Exp less Fuel	PROD OP EXP - F	1,691,758	783,459	293,581	609,143	5,575
62	Transmission Operations	TRANSM OP	93,927	52,407	14,739	26,433	349
63	Transmission Maint	TRANSM MAINT	379,534	209,901	59,886	108,346	1,400
64	Depreciation Expense	DEPRN EXP	5,477,784	2,823,103	916,172	1,711,820	26,688
65	Distribution Expense	DISTN EXP	2,781,563	1,500,619	439,943	735,908	105,093
66	Distribution Operation	DISTN OP	1,234,658	710,782	216,942	303,809	3,126
67	Distribution Maint	DISTN MAINT	1,546,904	789,837	223,000	432,100	101,967
68	Customer Accounts	CUSTOMER ACCT	1,132,399	959,295	147,990	15,328	9,786
69	A&G Expense	A&G EXP	4,539,419	2,436,986	742,895	1,310,307	49,231
70	A&G Operation	A&G OPERN	4,153,699	2,235,397	678,956	1,194,900	44,446
71	Accounts 364 & 365 (OH Plant)	ACCT 364 & 365	14,498,350	7,862,403	2,202,806	4,383,963	49,177
72	Accounts 366 & 367 (UG Plant)	ACCT 366 & 367	9,127,740	4,949,940	1,386,823	2,760,016	30,961

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TEST YEAR 2015

Line No	FERC	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 17A - ALLOCATION FACTORS EXPRESSED AS %							
1							
2							
3		ENERGY (Units = KWH at Input)					
4							
5		Annual	ANNUAL KWH	100.00%	44.59%	17.68%	37.41%
6		Winter	WINTER KWH	100.00%	47.37%	17.53%	34.73%
7		Summer	SUMMER KWH	100.00%	39.75%	17.93%	42.08%
8							
9		DEMAND					
10		Average & Excess Demand	AED	100.00%	53.15%	15.42%	31.09%
11		Non-Coincident Peak Dmd	NCP	100.00%	54.13%	15.16%	30.37%
12		NCP Demand-Secondary	NCP-SEC	100.00%	54.64%	15.31%	29.71%
13		Contrib'n to System Peak	CP	100.00%	55.79%	15.69%	28.14%
14		Summer Demand	SUMM DMD	100.00%	43.71%	16.71%	39.14%
15							
16		CUSTOMERS					
17		Service Drops	SERVICES	100.00%	84.32%	11.70%	3.98%
18		Meters	METERS	100.00%	67.78%	24.71%	7.52%
19		Meter Reading	METER READ	100.00%	54.17%	40.69%	5.14%
20		Customer Services	CUST SERVICES	100.00%	88.28%	9.80%	0.89%
21		Average Customers	AVG CUST	100.00%	85.76%	11.90%	1.08%
22		Customer Deposits	CUST DEP	100.00%	93.44%	6.56%	0.00%
23							
24		DIRECT ASSIGNMENTS					
25		Street Lighting	STREET LIGHTS	100.00%	0.00%	0.00%	0.00%
26		Misc. Service Revenues	MISC SVC REV	100.00%	91.70%	6.13%	2.16%
27		Uncollectable Accounts	UNCOLL ACCTS	100.00%	98.47%	1.45%	0.08%
28							
29							
30		OTHER FACTORS					
31		Total Production Plant	PROD PLANT	100.00%	47.78%	17.08%	34.80%
32		Hydro Production Plant	HYDRO PLANT	100.00%	44.60%	17.68%	37.40%
33		Transmission Plant	TRANSM PLANT	100.00%	52.48%	16.28%	30.88%
34		Distribution Plant	DISTN PLANT	100.00%	58.24%	15.67%	25.13%
35		Transmission/Dist'n Plant	T&D PLANT	100.00%	56.06%	15.90%	27.31%
36		PTD Plant	PTD PLANT	100.00%	50.90%	16.64%	31.98%
37		General Plant	GENL PLANT	100.00%	52.59%	16.53%	29.68%
38		Net Plant	NET PLANT	100.00%	49.35%	17.00%	33.27%
39		Rate Base	RATE BASE	100.00%	49.04%	17.04%	33.54%
40		Total Plant	TOTAL PLANT	100.00%	51.03%	16.63%	31.80%
41		Acct 364 (Poles & Towers)	ACCT 364	100.00%	54.23%	15.19%	30.24%
42		Acct 366 (UG Conduit)	ACCT 366	100.00%	54.23%	15.19%	30.24%

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TEST YEAR 2015

Line No	FERC	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46	
SCHEDULE 17A - ALLOCATION FACTORS EXPRESSED AS %								
43		Acct 365 (OH Conductors)	ACCT 365	100.00%	54.23%	15.19%	30.24%	0.34%
44		Acct 367 (UG Conductors)	ACCT 367	100.00%	54.23%	15.19%	30.24%	0.34%
45		Salaries & Wages	SAL & WAGES	100.00%	53.80%	16.40%	28.59%	1.21%
46		PTD Salaries & Wages	PTD S&W	100.00%	49.82%	16.83%	32.10%	1.25%
47		Acct 924 + Salaries & Wages	ACCT 924+S&W	100.00%	53.60%	16.42%	28.80%	1.17%
48		Power Plants & Substations	POWERPL & SS	100.00%	48.38%	16.94%	34.34%	0.34%
49		Net Production Plant	NET PROD PLT	100.00%	47.02%	17.22%	35.42%	0.33%
50		Net Transmission Plant	NET TRANSM PLT	100.00%	51.00%	16.54%	32.11%	0.35%
51		Net Distribution Plant	NET DISTN PLT	100.00%	58.17%	16.54%	25.06%	0.23%
52		Net General Plant	NET GENL PLT	100.00%	53.01%	16.49%	29.30%	1.20%
53		Accts 391-397	ACCTS 391-397	100.00%	51.60%	16.63%	30.57%	1.20%
54		Materials & Supplies	MATL & SUPP	100.00%	51.03%	16.35%	32.27%	0.35%
55		Accts 356-8 & 365-7	ACCT 356-8 & 365	100.00%	54.62%	15.32%	29.72%	0.35%
56		Accts 355 & 364	ACCT 355 & 364	100.00%	55.06%	15.46%	29.13%	0.36%
57		Lines, Poles, Transform	LINES-POLES-TR	100.00%	54.69%	15.34%	29.63%	0.35%
58		Power Production Maint	POWER PROD MA	100.00%	50.04%	16.65%	32.96%	0.35%
59		Power Production Exp	POWER PROD EX	100.00%	45.17%	17.57%	36.94%	0.32%
60		O&M less Fuel & PP	O&M - FUEL & PP	100.00%	52.89%	16.44%	29.44%	1.23%
61		Prod'cn Oper Exp less Fuel	PROD OP EXP - F	100.00%	46.31%	17.35%	36.01%	0.33%
62		Transmission Operations	TRANSM OP	100.00%	55.79%	15.69%	28.14%	0.37%
63		Transmission Maint	TRANSM MAINT	100.00%	55.31%	15.78%	28.55%	0.37%
64		Depreciation Expense	DEPRN EXP	100.00%	51.54%	16.73%	31.25%	0.49%
65		Distribution Expense	DISTN EXP	100.00%	53.95%	15.82%	26.46%	3.78%
66		Distribution Operation	DISTN OP	100.00%	57.57%	17.57%	24.61%	0.25%
67		Distribution Maint	DISTN MAINT	100.00%	51.06%	14.42%	27.93%	6.59%
68		Customer Accounts	CUSTOMER ACCT	100.00%	84.71%	13.07%	1.35%	0.86%
69		A&G Expense	A&G EXP	100.00%	53.68%	16.37%	28.87%	1.08%
70		A&G Operation	A&G OPERN	100.00%	53.82%	16.35%	28.77%	1.07%
71		Accounts 364 & 365 (OH Plant)	ACCT 364 & 365	100.00%	54.23%	15.19%	30.24%	0.34%
72		Accounts 366 & 367 (UG Plant)	ACCT 366 & 367	100.00%	54.23%	15.19%	30.24%	0.34%

REGULATORY COMMISSION OF ALASKA
TA 453-1

**ALASKA ELECTRIC LIGHT AND POWER COMPANY
COST OF SERVICE AND RATE ANALYSES**

SUMMARY OF EXISTING AND PROPOSED RATES

ALASKA ELECTRIC LIGHT AND POWER COMPANY

2015 TEST YEAR

Tariff Advice No. 453-1

SUMMARY OF EXISTING RATES COMPARED WITH PROPOSED RATES - PERMANENT RATE INCREASE

RATE	DESCRIPTON	EXISTING RATES		PROPOSED RATES		ABSOLUTE \$ CHANGE		PERCENTAGE CHANGE	
		WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER
10 Residential									
	Customer charge, \$ per month	8.88	8.88	9.60	9.60	0.72	0.72	8.11%	8.11%
	Energy charge, cents per KWH	11.94	9.82	12.91	10.62	0.97	0.80	8.12%	8.15%
10D Residential with demand									
	Customer charge, \$ per month	11.49	11.49	12.42	12.42	0.93	0.93	8.09%	8.09%
	Energy charge, cents per KWH	5.80	5.06	6.27	5.47	0.47	0.41	8.10%	8.10%
	Demand charge, \$ per KW	11.11	6.72	12.01	7.26	0.90	0.54	8.10%	8.04%
20 Small Commercial									
	Customer charge, \$ per month	18.80	18.80	20.32	20.32	1.52	1.52	8.09%	8.09%
	Energy charge, cents per KWH	11.57	9.20	12.51	9.95	0.94	0.75	8.12%	8.15%
20D Small Commercial with demand									
	Customer charge, \$ per month	27.16	27.16	29.36	29.36	2.20	2.20	8.10%	8.10%
	Energy charge, cents per KWH	6.65	5.89	7.19	6.37	0.54	0.48	8.12%	8.15%
	Demand charge, \$ per KW	12.73	8.52	13.76	9.21	1.03	0.69	8.09%	8.10%
24 Large Commercial									
	Customer charge, \$ per month	99.24	99.24	107.28	107.28	8.04	8.04	8.10%	8.10%
	Energy charge, cents per KWH	6.11	5.73	6.60	6.19	0.49	0.46	8.02%	8.03%
	Demand charge, \$ per KW	14.30	9.11	15.46	9.85	1.16	0.74	8.11%	8.12%
91 Off-Peak Service									
	Resid. Customer charge, \$ per month	7.83	7.83	8.46	8.46	0.63	0.63	8.05%	8.05%
	Sm. Comm. Customer charge, \$ per mon	14.63	14.63	15.82	15.82	1.19	1.19	8.13%	8.13%
	Lg. Comm. Customer charge, \$ per mont	26.12	26.12	28.24	28.24	2.12	2.12	8.12%	8.12%
	Energy charge, cents per KWH	7.61	7.61	8.23	8.23	0.62	0.62	8.15%	8.15%
92 Residential Heat Pump Service									
	Customer charge, \$ per month	10.97	10.97	11.86	11.86	0.89	0.89	8.11%	8.11%
	Energy charge, cents per KWH	5.12	4.64	5.53	5.02	0.41	0.38	8.01%	8.19%
	Demand charge, \$ per KW	9.91	6.05	10.71	6.54	0.80	0.49	8.07%	8.10%

ALASKA ELECTRIC LIGHT AND POWER COMPANY

2015 TEST YEAR

Tariff Advice No. 453-1

SUMMARY OF EXISTING RATES COMPARED WITH PROPOSED RATES - INTERIM RATE INCREASE

RATE	DESCRIPTON	EXISTING RATES		PROPOSED RATES		ABSOLUTE \$ CHANGE		PERCENTAGE CHANGE	
		WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER
10 Residential									
	Customer charge, \$ per month	8.88	8.88	9.22	9.22	0.34	0.34	3.83%	3.83%
	Energy charge, cents per KWH	11.94	9.82	12.40	10.20	0.46	0.38	3.85%	3.87%
10D Residential with demand									
	Customer charge, \$ per month	11.49	11.49	11.93	11.93	0.44	0.44	3.83%	3.83%
	Energy charge, cents per KWH	5.80	5.06	6.02	5.26	0.22	0.20	3.79%	3.95%
	Demand charge, \$ per KW	11.11	6.72	11.54	6.98	0.43	0.26	3.87%	3.87%
20 Small Commercial									
	Customer charge, \$ per month	18.80	18.80	19.53	19.53	0.73	0.73	3.88%	3.88%
	Energy charge, cents per KWH	11.57	9.20	12.02	9.56	0.45	0.36	3.89%	3.91%
20D Small Commercial with demand									
	Customer charge, \$ per month	27.16	27.16	28.21	28.21	1.05	1.05	3.87%	3.87%
	Energy charge, cents per KWH	6.65	5.89	6.91	6.12	0.26	0.23	3.91%	3.90%
	Demand charge, \$ per KW	12.73	8.52	13.22	8.85	0.49	0.33	3.85%	3.87%
24 Large Commercial									
	Customer charge, \$ per month	99.24	99.24	103.07	103.07	3.83	3.83	3.86%	3.86%
	Energy charge, cents per KWH	6.11	5.73	6.35	5.95	0.24	0.22	3.93%	3.84%
	Demand charge, \$ per KW	14.30	9.11	14.85	9.46	0.55	0.35	3.85%	3.84%
91 Off-Peak Service									
	Resid. Customer charge, \$ per month	7.83	7.83	8.13	8.13	0.30	0.30	3.83%	3.83%
	Sm. Comm. Customer charge, \$ per month	14.63	14.63	15.19	15.19	0.56	0.56	3.83%	3.83%
	Lg. Comm. Customer charge, \$ per month	26.12	26.12	27.13	27.13	1.01	1.01	3.87%	3.87%
	Energy charge, cents per KWH	7.61	7.61	7.90	7.90	0.29	0.29	3.81%	3.81%
92 Residential Heat Pump Service									
	Customer charge, \$ per month	10.97	10.97	11.39	11.39	0.42	0.42	3.83%	3.83%
	Energy charge, cents per KWH	5.12	4.64	5.32	4.82	0.20	0.18	3.91%	3.88%
	Demand charge, \$ per KW	9.91	6.05	10.29	6.28	0.38	0.23	3.83%	3.80%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
EXISTING AND PROPOSED RATES FOR DUSK-TO-DAWN LIGHTING (RATE 46)
Tariff Advice No. 453-1
PERMANENT RATE INCREASE

TYPE OF LIGHT:	CHARGE PER YEAR		ABSOLUTE \$ CHANGE	PERCENTAGE CHANGE
	EXISTING	PROPOSED		
100 watt high pressure sodium, per light	119.71	129.41	9.70	8.10%
150 watt high pressure sodium, per light	179.49	194.03	14.54	8.10%
175 watt mercury vapor, per light	209.44	226.40	16.96	8.10%
200 watt mercury vapor, per light	239.26	258.64	19.38	8.10%
250 watt mercury vapor, per light	279.69	302.34	22.65	8.10%
400 watt mercury vapor, per light	369.37	399.29	29.92	8.10%
1,000 watt mercury vapor, per light	734.82	794.34	59.52	8.10%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
 EXISTING AND PROPOSED RATES FOR DUSK-TO-DAWN LIGHTING (RATE 46)
 Tariff Advice No. 453-1
 INTERIM RATE INCREASE

TYPE OF LIGHT:	CHARGE PER YEAR		ABSOLUTE \$ CHANGE	PERCENTAGE CHANGE
	EXISTING	PROPOSED		
100 watt high pressure sodium, per light	119.71	124.33	4.62	3.86%
150 watt high pressure sodium, per light	179.49	186.42	6.93	3.86%
175 watt mercury vapor, per light	209.44	217.52	8.08	3.86%
200 watt mercury vapor, per light	239.26	248.50	9.24	3.86%
250 watt mercury vapor, per light	279.69	290.49	10.80	3.86%
400 watt mercury vapor, per light	369.37	383.63	14.26	3.86%
1,000 watt mercury vapor, per light	734.82	763.18	28.36	3.86%

REGULATORY COMMISSION OF ALASKA
TA 453-1

**ALASKA ELECTRIC LIGHT AND POWER COMPANY
COST OF SERVICE AND RATE ANALYSES**

TYPICAL BILL ANALYSIS

ALASKA ELECTRIC LIGHT AND POWER COMPANY
TYPICAL BILLS: EXISTING VS. PROPOSED RATES
RESIDENTIAL RATE 10 - WINTER - PERMANENT RATE INCREASE

Tariff Advice No. 453-1

PRESENT RATES:	
ALL KILOWATT-HOURS (\$/KWH)	\$0.1194
CUSTOMER CHARGE (\$/MONTH)	\$8.88

PROPOSED RATES:	
ALL KILOWATT-HOURS (\$/KWH)	\$0.1291
CUSTOMER CHARGE (\$/MONTH)	\$9.60

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES		
	PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
0	8.88	9.60	8.11%
25	11.87	12.83	8.11%
50	14.85	16.06	8.11%
75	17.84	19.28	8.12%
100	20.82	22.51	8.12%
125	23.81	25.74	8.12%
150	26.79	28.97	8.12%
175	29.78	32.19	8.12%
200	32.76	35.42	8.12%
225	35.75	38.65	8.12%
250	38.73	41.88	8.12%
275	41.72	45.10	8.12%
300	44.70	48.33	8.12%
325	47.69	51.56	8.12%
350	50.67	54.79	8.12%
375	53.66	58.01	8.12%
400	56.64	61.24	8.12%
425	59.63	64.47	8.12%
450	62.61	67.70	8.12%
475	65.60	70.92	8.12%
500	68.58	74.15	8.12%
525	71.57	77.38	8.12%
550	74.55	80.61	8.12%
575	77.54	83.83	8.12%
600	80.52	87.06	8.12%
625	83.51	90.29	8.12%
650	86.49	93.52	8.12%
675	89.48	96.74	8.12%
700	92.46	99.97	8.12%
725	95.45	103.20	8.12%
750	98.43	106.43	8.12%
775	101.42	109.65	8.12%
800	104.40	112.88	8.12%
825	107.39	116.11	8.12%
850	110.37	119.34	8.12%
875	113.36	122.56	8.12%
900	116.34	125.79	8.12%
925	119.33	129.02	8.12%
950	122.31	132.25	8.12%
975	125.30	135.47	8.12%
1,000	128.28	138.70	8.12%

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES		
	PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
1,025	131.27	141.93	8.12%
1,050	134.25	145.16	8.12%
1,075	137.24	148.38	8.12%
1,100	140.22	151.61	8.12%
1,125	143.21	154.84	8.12%
1,150	146.19	158.07	8.12%
1,175	149.18	161.29	8.12%
1,200	152.16	164.52	8.12%
1,225	155.15	167.75	8.12%
1,250	158.13	170.98	8.12%
1,275	161.12	174.20	8.12%
1,300	164.10	177.43	8.12%
1,325	167.09	180.66	8.12%
1,350	170.07	183.89	8.12%
1,375	173.06	187.11	8.12%
1,400	176.04	190.34	8.12%
1,425	179.03	193.57	8.12%
1,450	182.01	196.80	8.12%
1,475	185.00	200.02	8.12%
1,500	187.98	203.25	8.12%
1,525	190.97	206.48	8.12%
1,550	193.95	209.71	8.12%
1,575	196.94	212.93	8.12%
1,600	199.92	216.16	8.12%
1,625	202.91	219.39	8.12%
1,650	205.89	222.62	8.12%
1,675	208.88	225.84	8.12%
1,700	211.86	229.07	8.12%
1,725	214.85	232.30	8.12%
1,750	217.83	235.53	8.12%
1,775	220.82	238.75	8.12%
1,800	223.80	241.98	8.12%
1,825	226.79	245.21	8.12%
1,850	229.77	248.44	8.12%
1,875	232.76	251.66	8.12%
1,900	235.74	254.89	8.12%
1,925	238.73	258.12	8.12%
1,950	241.71	261.35	8.12%
1,975	244.70	264.57	8.12%
2,000	247.68	267.80	8.12%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
TYPICAL BILLS: EXISTING VS. PROPOSED RATES
RESIDENTIAL RATE 10 - SUMMER - PERMANENT RATE INCREASE

Tariff Advice No. 453-1

PRESENT RATES:	
ALL KILOWATT-HOURS (\$/KWH)	\$0.0982
CUSTOMER CHARGE (\$/MONTH)	\$8.88

PROPOSED RATES:	
ALL KILOWATT-HOURS (\$/KWH)	\$0.1062
CUSTOMER CHARGE (\$/MONTH)	\$9.60

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES		
	PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
0	8.88	9.60	8.11%
25	11.34	12.26	8.12%
50	13.79	14.91	8.12%
75	16.25	17.57	8.13%
100	18.70	20.22	8.13%
125	21.16	22.88	8.13%
150	23.61	25.53	8.13%
175	26.07	28.19	8.13%
200	28.52	30.84	8.13%
225	30.98	33.50	8.14%
250	33.43	36.15	8.14%
275	35.89	38.81	8.14%
300	38.34	41.46	8.14%
325	40.80	44.12	8.14%
350	43.25	46.77	8.14%
375	45.71	49.43	8.14%
400	48.16	52.08	8.14%
425	50.62	54.74	8.14%
450	53.07	57.39	8.14%
475	55.53	60.05	8.14%
500	57.98	62.70	8.14%
525	60.44	65.36	8.14%
550	62.89	68.01	8.14%
575	65.35	70.67	8.14%
600	67.80	73.32	8.14%
625	70.26	75.98	8.14%
650	72.71	78.63	8.14%
675	75.17	81.29	8.14%
700	77.62	83.94	8.14%
725	80.08	86.60	8.14%
750	82.53	89.25	8.14%
775	84.99	91.91	8.14%
800	87.44	94.56	8.14%
825	89.90	97.22	8.14%
850	92.35	99.87	8.14%
875	94.81	102.53	8.14%
900	97.26	105.18	8.14%
925	99.72	107.84	8.14%
950	102.17	110.49	8.14%
975	104.63	113.15	8.14%
1,000	107.08	115.80	8.14%

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES		
	PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
1,025	109.54	118.46	8.14%
1,050	111.99	121.11	8.14%
1,075	114.45	123.77	8.14%
1,100	116.90	126.42	8.14%
1,125	119.36	129.08	8.14%
1,150	121.81	131.73	8.14%
1,175	124.27	134.39	8.14%
1,200	126.72	137.04	8.14%
1,225	129.18	139.70	8.14%
1,250	131.63	142.35	8.14%
1,275	134.09	145.01	8.14%
1,300	136.54	147.66	8.14%
1,325	139.00	150.32	8.14%
1,350	141.45	152.97	8.14%
1,375	143.91	155.63	8.14%
1,400	146.36	158.28	8.14%
1,425	148.82	160.94	8.14%
1,450	151.27	163.59	8.14%
1,475	153.73	166.25	8.14%
1,500	156.18	168.90	8.14%
1,525	158.64	171.56	8.14%
1,550	161.09	174.21	8.14%
1,575	163.55	176.87	8.14%
1,600	166.00	179.52	8.14%
1,625	168.46	182.18	8.14%
1,650	170.91	184.83	8.14%
1,675	173.37	187.49	8.14%
1,700	175.82	190.14	8.14%
1,725	178.28	192.80	8.14%
1,750	180.73	195.45	8.14%
1,775	183.19	198.11	8.14%
1,800	185.64	200.76	8.14%
1,825	188.10	203.42	8.14%
1,850	190.55	206.07	8.14%
1,875	193.01	208.73	8.14%
1,900	195.46	211.38	8.14%
1,925	197.92	214.04	8.14%
1,950	200.37	216.69	8.14%
1,975	202.83	219.35	8.14%
2,000	205.28	222.00	8.14%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
TYPICAL BILLS: EXISTING VS. PROPOSED RATES
RESIDENTIAL RATE 10 - WINTER - INTERIM RATE INCREASE

Tariff Advice No. 453-1

PRESENT RATES:

ALL KILOWATT-HOURS (\$/KWH)	\$0.1194
CUSTOMER CHARGE (\$/MONTH)	\$8.88

PROPOSED RATES:

ALL KILOWATT-HOURS (\$/KWH)	\$0.1240
CUSTOMER CHARGE (\$/MONTH)	9.22

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
0	8.88	9.22	3.83%
25	11.87	12.32	3.83%
50	14.85	15.42	3.84%
75	17.84	18.52	3.84%
100	20.82	21.62	3.84%
125	23.81	24.72	3.84%
150	26.79	27.82	3.84%
175	29.78	30.92	3.85%
200	32.76	34.02	3.85%
225	35.75	37.12	3.85%
250	38.73	40.22	3.85%
275	41.72	43.32	3.85%
300	44.70	46.42	3.85%
325	47.69	49.52	3.85%
350	50.67	52.62	3.85%
375	53.66	55.72	3.85%
400	56.64	58.82	3.85%
425	59.63	61.92	3.85%
450	62.61	65.02	3.85%
475	65.60	68.12	3.85%
500	68.58	71.22	3.85%
525	71.57	74.32	3.85%
550	74.55	77.42	3.85%
575	77.54	80.52	3.85%
600	80.52	83.62	3.85%
625	83.51	86.72	3.85%
650	86.49	89.82	3.85%
675	89.48	92.92	3.85%
700	92.46	96.02	3.85%
725	95.45	99.12	3.85%
750	98.43	102.22	3.85%
775	101.42	105.32	3.85%
800	104.40	108.42	3.85%
825	107.39	111.52	3.85%
850	110.37	114.62	3.85%
875	113.36	117.72	3.85%
900	116.34	120.82	3.85%
925	119.33	123.92	3.85%
950	122.31	127.02	3.85%
975	125.30	130.12	3.85%
1,000	128.28	133.22	3.85%

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
1,025	131.27	136.32	3.85%
1,050	134.25	139.42	3.85%
1,075	137.24	142.52	3.85%
1,100	140.22	145.62	3.85%
1,125	143.21	148.72	3.85%
1,150	146.19	151.82	3.85%
1,175	149.18	154.92	3.85%
1,200	152.16	158.02	3.85%
1,225	155.15	161.12	3.85%
1,250	158.13	164.22	3.85%
1,275	161.12	167.32	3.85%
1,300	164.10	170.42	3.85%
1,325	167.09	173.52	3.85%
1,350	170.07	176.62	3.85%
1,375	173.06	179.72	3.85%
1,400	176.04	182.82	3.85%
1,425	179.03	185.92	3.85%
1,450	182.01	189.02	3.85%
1,475	185.00	192.12	3.85%
1,500	187.98	195.22	3.85%
1,525	190.97	198.32	3.85%
1,550	193.95	201.42	3.85%
1,575	196.94	204.52	3.85%
1,600	199.92	207.62	3.85%
1,625	202.91	210.72	3.85%
1,650	205.89	213.82	3.85%
1,675	208.88	216.92	3.85%
1,700	211.86	220.02	3.85%
1,725	214.85	223.12	3.85%
1,750	217.83	226.22	3.85%
1,775	220.82	229.32	3.85%
1,800	223.80	232.42	3.85%
1,825	226.79	235.52	3.85%
1,850	229.77	238.62	3.85%
1,875	232.76	241.72	3.85%
1,900	235.74	244.82	3.85%
1,925	238.73	247.92	3.85%
1,950	241.71	251.02	3.85%
1,975	244.70	254.12	3.85%
2,000	247.68	257.22	3.85%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
TYPICAL BILLS: EXISTING VS. PROPOSED RATES
RESIDENTIAL RATE 10 - SUMMER - INTERIM RATE INCREASE

Tariff Advice No. 453-1

PRESENT RATES:

ALL KILOWATT-HOURS (\$/KWH)	\$0.0982
CUSTOMER CHARGE (\$/MONTH)	\$8.88

PROPOSED RATES:

ALL KILOWATT-HOURS (\$/KWH)	\$0.1020
CUSTOMER CHARGE (\$/MONTH)	9.22

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES		
	PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
0	8.88	9.22	3.83%
25	11.34	11.77	3.84%
50	13.79	14.32	3.84%
75	16.25	16.87	3.85%
100	18.70	19.42	3.85%
125	21.16	21.97	3.85%
150	23.61	24.52	3.85%
175	26.07	27.07	3.86%
200	28.52	29.62	3.86%
225	30.98	32.17	3.86%
250	33.43	34.72	3.86%
275	35.89	37.27	3.86%
300	38.34	39.82	3.86%
325	40.80	42.37	3.86%
350	43.25	44.92	3.86%
375	45.71	47.47	3.86%
400	48.16	50.02	3.86%
425	50.62	52.57	3.86%
450	53.07	55.12	3.86%
475	55.53	57.67	3.86%
500	57.98	60.22	3.86%
525	60.44	62.77	3.86%
550	62.89	65.32	3.86%
575	65.35	67.87	3.86%
600	67.80	70.42	3.86%
625	70.26	72.97	3.86%
650	72.71	75.52	3.86%
675	75.17	78.07	3.86%
700	77.62	80.62	3.86%
725	80.08	83.17	3.87%
750	82.53	85.72	3.87%
775	84.99	88.27	3.87%
800	87.44	90.82	3.87%
825	89.90	93.37	3.87%
850	92.35	95.92	3.87%
875	94.81	98.47	3.87%
900	97.26	101.02	3.87%
925	99.72	103.57	3.87%
950	102.17	106.12	3.87%
975	104.63	108.67	3.87%
1,000	107.08	111.22	3.87%

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES		
	PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
1,025	109.54	113.77	3.87%
1,050	111.99	116.32	3.87%
1,075	114.45	118.87	3.87%
1,100	116.90	121.42	3.87%
1,125	119.36	123.97	3.87%
1,150	121.81	126.52	3.87%
1,175	124.27	129.07	3.87%
1,200	126.72	131.62	3.87%
1,225	129.18	134.17	3.87%
1,250	131.63	136.72	3.87%
1,275	134.09	139.27	3.87%
1,300	136.54	141.82	3.87%
1,325	139.00	144.37	3.87%
1,350	141.45	146.92	3.87%
1,375	143.91	149.47	3.87%
1,400	146.36	152.02	3.87%
1,425	148.82	154.57	3.87%
1,450	151.27	157.12	3.87%
1,475	153.73	159.67	3.87%
1,500	156.18	162.22	3.87%
1,525	158.64	164.77	3.87%
1,550	161.09	167.32	3.87%
1,575	163.55	169.87	3.87%
1,600	166.00	172.42	3.87%
1,625	168.46	174.97	3.87%
1,650	170.91	177.52	3.87%
1,675	173.37	180.07	3.87%
1,700	175.82	182.62	3.87%
1,725	178.28	185.17	3.87%
1,750	180.73	187.72	3.87%
1,775	183.19	190.27	3.87%
1,800	185.64	192.82	3.87%
1,825	188.10	195.37	3.87%
1,850	190.55	197.92	3.87%
1,875	193.01	200.47	3.87%
1,900	195.46	203.02	3.87%
1,925	197.92	205.57	3.87%
1,950	200.37	208.12	3.87%
1,975	202.83	210.67	3.87%
2,000	205.28	213.22	3.87%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
RESIDENTIAL RATE 10 - WINTER - PERMANENT RATE INCREASE

Tariff Advice No. 453-1

EXISTING THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0580
CUSTOMER CHARGE (\$/MONTH)	\$11.49
DEMAND CHARGE, PER KW	\$11.11

PROPOSED THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0627
CUSTOMER CHARGE (\$/MONTH)	\$12.42
DEMAND CHARGE, PER KW	\$12.01

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
730	10	10%	53.83	111.10	164.93	58.19	120.10	178.29	8.10%
1,095	10	15%	75.00	111.10	186.10	81.08	120.10	201.18	8.10%
1,460	10	20%	96.17	111.10	207.27	103.96	120.10	224.06	8.10%
1,825	10	25%	117.34	111.10	228.44	126.85	120.10	246.95	8.10%
2,190	10	30%	138.51	111.10	249.61	149.73	120.10	269.83	8.10%
2,555	10	35%	159.68	111.10	270.78	172.62	120.10	292.72	8.10%
2,920	10	40%	180.85	111.10	291.95	195.50	120.10	315.60	8.10%
3,285	10	45%	202.02	111.10	313.12	218.39	120.10	338.49	8.10%
3,650	10	50%	223.19	111.10	334.29	241.28	120.10	361.38	8.10%
4,380	10	60%	265.53	111.10	376.63	287.05	120.10	407.15	8.10%
5,110	10	70%	307.87	111.10	418.97	332.82	120.10	452.92	8.10%
5,840	10	80%	350.21	111.10	461.31	378.59	120.10	498.69	8.10%
1,460	20	10%	96.17	222.20	318.37	103.96	240.20	344.16	8.10%
2,190	20	15%	138.51	222.20	360.71	149.73	240.20	389.93	8.10%
2,920	20	20%	180.85	222.20	403.05	195.50	240.20	435.70	8.10%
3,650	20	25%	223.19	222.20	445.39	241.28	240.20	481.48	8.10%
4,380	20	30%	265.53	222.20	487.73	287.05	240.20	527.25	8.10%
5,110	20	35%	307.87	222.20	530.07	332.82	240.20	573.02	8.10%
5,840	20	40%	350.21	222.20	572.41	378.59	240.20	618.79	8.10%
6,570	20	45%	392.55	222.20	614.75	424.36	240.20	664.56	8.10%
7,300	20	50%	434.89	222.20	657.09	470.13	240.20	710.33	8.10%
8,760	20	60%	519.57	222.20	741.77	561.67	240.20	801.87	8.10%
10,220	20	70%	604.25	222.20	826.45	653.21	240.20	893.41	8.10%
11,680	20	80%	688.93	222.20	911.13	744.76	240.20	984.96	8.10%
2,190	30	10%	138.51	333.30	471.81	149.73	360.30	510.03	8.10%
3,285	30	15%	202.02	333.30	535.32	218.39	360.30	578.69	8.10%
4,380	30	20%	265.53	333.30	598.83	287.05	360.30	647.35	8.10%
5,475	30	25%	329.04	333.30	662.34	355.70	360.30	716.00	8.10%
6,570	30	30%	392.55	333.30	725.85	424.36	360.30	784.66	8.10%
7,665	30	35%	456.06	333.30	789.36	493.02	360.30	853.32	8.10%
8,760	30	40%	519.57	333.30	852.87	561.67	360.30	921.97	8.10%
9,855	30	45%	583.08	333.30	916.38	630.33	360.30	990.63	8.10%
10,950	30	50%	646.59	333.30	979.89	698.99	360.30	1,059.29	8.10%
13,140	30	60%	773.61	333.30	1,106.91	836.30	360.30	1,196.60	8.10%
15,330	30	70%	900.63	333.30	1,233.93	973.61	360.30	1,333.91	8.10%
17,520	30	80%	1,027.65	333.30	1,360.95	1,110.92	360.30	1,471.22	8.10%
2,920	40	10%	180.85	444.40	625.25	195.50	480.40	675.90	8.10%
4,380	40	15%	265.53	444.40	709.93	287.05	480.40	767.45	8.10%
5,840	40	20%	350.21	444.40	794.61	378.59	480.40	858.99	8.10%
7,300	40	25%	434.89	444.40	879.29	470.13	480.40	950.53	8.10%
8,760	40	30%	519.57	444.40	963.97	561.67	480.40	1,042.07	8.10%
10,220	40	35%	604.25	444.40	1,048.65	653.21	480.40	1,133.61	8.10%
11,680	40	40%	688.93	444.40	1,133.33	744.76	480.40	1,225.16	8.10%
13,140	40	45%	773.61	444.40	1,218.01	836.30	480.40	1,316.70	8.10%
14,600	40	50%	858.29	444.40	1,302.69	927.84	480.40	1,408.24	8.10%
17,520	40	60%	1,027.65	444.40	1,472.05	1,110.92	480.40	1,591.32	8.10%
20,440	40	70%	1,197.01	444.40	1,641.41	1,294.01	480.40	1,774.41	8.10%
23,360	40	80%	1,366.37	444.40	1,810.77	1,477.09	480.40	1,957.49	8.10%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
RESIDENTIAL RATE 10 - SUMMER - PERMANENT RATE INCREASE

Tariff Advice No. 453-1

EXISTING THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0506
CUSTOMER CHARGE (\$/MONTH)	\$11.49
DEMAND CHARGE, PER KW	\$6.72

PROPOSED THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0547
CUSTOMER CHARGE (\$/MONTH)	\$12.42
DEMAND CHARGE, PER KW	\$7.26

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
730	10	10%	48.43	67.20	115.63	52.35	72.60	124.95	8.06%
1,095	10	15%	66.90	67.20	134.10	72.32	72.60	144.92	8.07%
1,460	10	20%	85.37	67.20	152.57	92.28	72.60	164.88	8.07%
1,825	10	25%	103.84	67.20	171.04	112.25	72.60	184.85	8.08%
2,190	10	30%	122.30	67.20	189.50	132.21	72.60	204.81	8.08%
2,555	10	35%	140.77	67.20	207.97	152.18	72.60	224.78	8.08%
2,920	10	40%	159.24	67.20	226.44	172.14	72.60	244.74	8.08%
3,285	10	45%	177.71	67.20	244.91	192.11	72.60	264.71	8.08%
3,650	10	50%	196.18	67.20	263.38	212.08	72.60	284.68	8.09%
4,380	10	60%	233.12	67.20	300.32	252.01	72.60	324.61	8.09%
5,110	10	70%	270.06	67.20	337.26	291.94	72.60	364.54	8.09%
5,840	10	80%	306.99	67.20	374.19	331.87	72.60	404.47	8.09%
1,460	20	10%	85.37	134.40	219.77	92.28	145.20	237.48	8.06%
2,190	20	15%	122.30	134.40	256.70	132.21	145.20	277.41	8.07%
2,920	20	20%	159.24	134.40	293.64	172.14	145.20	317.34	8.07%
3,650	20	25%	196.18	134.40	330.58	212.08	145.20	357.28	8.08%
4,380	20	30%	233.12	134.40	367.52	252.01	145.20	397.21	8.08%
5,110	20	35%	270.06	134.40	404.46	291.94	145.20	437.14	8.08%
5,840	20	40%	306.99	134.40	441.39	331.87	145.20	477.07	8.08%
6,570	20	45%	343.93	134.40	478.33	371.80	145.20	517.00	8.08%
7,300	20	50%	380.87	134.40	515.27	411.73	145.20	556.93	8.09%
8,760	20	60%	454.75	134.40	589.15	491.59	145.20	636.79	8.09%
10,220	20	70%	528.62	134.40	663.02	571.45	145.20	716.65	8.09%
11,680	20	80%	602.50	134.40	736.90	651.32	145.20	796.52	8.09%
2,190	30	10%	122.30	201.60	323.90	132.21	217.80	350.01	8.06%
3,285	30	15%	177.71	201.60	379.31	192.11	217.80	409.91	8.07%
4,380	30	20%	233.12	201.60	434.72	252.01	217.80	469.81	8.07%
5,475	30	25%	288.53	201.60	490.13	311.90	217.80	529.70	8.07%
6,570	30	30%	343.93	201.60	545.53	371.80	217.80	589.60	8.08%
7,665	30	35%	399.34	201.60	600.94	431.70	217.80	649.50	8.08%
8,760	30	40%	454.75	201.60	656.35	491.59	217.80	709.39	8.08%
9,855	30	45%	510.15	201.60	711.75	551.49	217.80	769.29	8.08%
10,950	30	50%	565.56	201.60	767.16	611.39	217.80	829.19	8.09%
13,140	30	60%	676.37	201.60	877.97	731.18	217.80	948.98	8.09%
15,330	30	70%	787.19	201.60	988.79	850.97	217.80	1,068.77	8.09%
17,520	30	80%	898.00	201.60	1,099.60	970.76	217.80	1,188.56	8.09%
2,920	40	10%	159.24	268.80	428.04	172.14	290.40	462.54	8.06%
4,380	40	15%	233.12	268.80	501.92	252.01	290.40	542.41	8.07%
5,840	40	20%	306.99	268.80	575.79	331.87	290.40	622.27	8.07%
7,300	40	25%	380.87	268.80	649.67	411.73	290.40	702.13	8.07%
8,760	40	30%	454.75	268.80	723.55	491.59	290.40	781.99	8.08%
10,220	40	35%	528.62	268.80	797.42	571.45	290.40	861.85	8.08%
11,680	40	40%	602.50	268.80	871.30	651.32	290.40	941.72	8.08%
13,140	40	45%	676.37	268.80	945.17	731.18	290.40	1,021.58	8.08%
14,600	40	50%	750.25	268.80	1,019.05	811.04	290.40	1,101.44	8.08%
17,520	40	60%	898.00	268.80	1,166.80	970.76	290.40	1,261.16	8.09%
20,440	40	70%	1,045.75	268.80	1,314.55	1,130.49	290.40	1,420.89	8.09%
23,360	40	80%	1,193.51	268.80	1,462.31	1,290.21	290.40	1,580.61	8.09%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
RESIDENTIAL RATE 10 - WINTER - INTERIM RATE INCREASE

Tariff Advice No. 453-1

EXISTING THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0580
CUSTOMER CHARGE (\$/MONTH)	\$11.49
DEMAND CHARGE, PER KW	\$11.11

PROPOSED THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0602
CUSTOMER CHARGE (\$/MONTH)	11.93
DEMAND CHARGE, PER KW	11.54

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
730	10	10%	53.83	111.10	164.93	55.88	115.40	171.28	3.85%
1,095	10	15%	75.00	111.10	186.10	77.85	115.40	193.25	3.84%
1,460	10	20%	96.17	111.10	207.27	99.82	115.40	215.22	3.84%
1,825	10	25%	117.34	111.10	228.44	121.80	115.40	237.20	3.83%
2,190	10	30%	138.51	111.10	249.61	143.77	115.40	259.17	3.83%
2,555	10	35%	159.68	111.10	270.78	165.74	115.40	281.14	3.83%
2,920	10	40%	180.85	111.10	291.95	187.71	115.40	303.11	3.82%
3,285	10	45%	202.02	111.10	313.12	209.69	115.40	325.09	3.82%
3,650	10	50%	223.19	111.10	334.29	231.66	115.40	347.06	3.82%
4,380	10	60%	265.53	111.10	376.63	275.61	115.40	391.01	3.82%
5,110	10	70%	307.87	111.10	418.97	319.55	115.40	434.95	3.81%
5,840	10	80%	350.21	111.10	461.31	363.50	115.40	478.90	3.81%
1,460	20	10%	96.17	222.20	318.37	99.82	230.80	330.62	3.85%
2,190	20	15%	138.51	222.20	360.71	143.77	230.80	374.57	3.84%
2,920	20	20%	180.85	222.20	403.05	187.71	230.80	418.51	3.84%
3,650	20	25%	223.19	222.20	445.39	231.66	230.80	462.46	3.83%
4,380	20	30%	265.53	222.20	487.73	275.61	230.80	506.41	3.83%
5,110	20	35%	307.87	222.20	530.07	319.55	230.80	550.35	3.83%
5,840	20	40%	350.21	222.20	572.41	363.50	230.80	594.30	3.82%
6,570	20	45%	392.55	222.20	614.75	407.44	230.80	638.24	3.82%
7,300	20	50%	434.89	222.20	657.09	451.39	230.80	682.19	3.82%
8,760	20	60%	519.57	222.20	741.77	539.28	230.80	770.08	3.82%
10,220	20	70%	604.25	222.20	826.45	627.17	230.80	857.97	3.81%
11,680	20	80%	688.93	222.20	911.13	715.07	230.80	945.87	3.81%
2,190	30	10%	138.51	333.30	471.81	143.77	346.20	489.97	3.85%
3,285	30	15%	202.02	333.30	535.32	209.69	346.20	555.89	3.84%
4,380	30	20%	265.53	333.30	598.83	275.61	346.20	621.81	3.84%
5,475	30	25%	329.04	333.30	662.34	341.53	346.20	687.73	3.83%
6,570	30	30%	392.55	333.30	725.85	407.44	346.20	753.64	3.83%
7,665	30	35%	456.06	333.30	789.36	473.36	346.20	819.56	3.83%
8,760	30	40%	519.57	333.30	852.87	539.28	346.20	885.48	3.82%
9,855	30	45%	583.08	333.30	916.38	605.20	346.20	951.40	3.82%
10,950	30	50%	646.59	333.30	979.89	671.12	346.20	1,017.32	3.82%
13,140	30	60%	773.61	333.30	1,106.91	802.96	346.20	1,149.16	3.82%
15,330	30	70%	900.63	333.30	1,233.93	934.80	346.20	1,281.00	3.81%
17,520	30	80%	1,027.65	333.30	1,360.95	1,066.63	346.20	1,412.83	3.81%
2,920	40	10%	180.85	444.40	625.25	187.71	461.60	649.31	3.85%
4,380	40	15%	265.53	444.40	709.93	275.61	461.60	737.21	3.84%
5,840	40	20%	350.21	444.40	794.61	363.50	461.60	825.10	3.84%
7,300	40	25%	434.89	444.40	879.29	451.39	461.60	912.99	3.83%
8,760	40	30%	519.57	444.40	963.97	539.28	461.60	1,000.88	3.83%
10,220	40	35%	604.25	444.40	1,048.65	627.17	461.60	1,088.77	3.83%
11,680	40	40%	688.93	444.40	1,133.33	715.07	461.60	1,176.67	3.82%
13,140	40	45%	773.61	444.40	1,218.01	802.96	461.60	1,264.56	3.82%
14,600	40	50%	858.29	444.40	1,302.69	890.85	461.60	1,352.45	3.82%
17,520	40	60%	1,027.65	444.40	1,472.05	1,066.63	461.60	1,528.23	3.82%
20,440	40	70%	1,197.01	444.40	1,641.41	1,242.42	461.60	1,704.02	3.81%
23,360	40	80%	1,366.37	444.40	1,810.77	1,418.20	461.60	1,879.80	3.81%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
RESIDENTIAL RATE 10 - SUMMER - INTERIM RATE INCREASE

Tariff Advice No. 453-1

EXISTING THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0506
CUSTOMER CHARGE (\$/MONTH)	\$11.49
DEMAND CHARGE, PER KW	\$6.72

PROPOSED THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0526
CUSTOMER CHARGE (\$/MONTH)	11.93
DEMAND CHARGE, PER KW	6.98

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
730	10	10%	48.43	67.20	115.63	50.33	69.80	120.13	3.89%
1,095	10	15%	66.90	67.20	134.10	69.53	69.80	139.33	3.90%
1,460	10	20%	85.37	67.20	152.57	88.73	69.80	158.53	3.91%
1,825	10	25%	103.84	67.20	171.04	107.93	69.80	177.73	3.91%
2,190	10	30%	122.30	67.20	189.50	127.12	69.80	196.92	3.92%
2,555	10	35%	140.77	67.20	207.97	146.32	69.80	216.12	3.92%
2,920	10	40%	159.24	67.20	226.44	165.52	69.80	235.32	3.92%
3,285	10	45%	177.71	67.20	244.91	184.72	69.80	254.52	3.92%
3,650	10	50%	196.18	67.20	263.38	203.92	69.80	273.72	3.93%
4,380	10	60%	233.12	67.20	300.32	242.32	69.80	312.12	3.93%
5,110	10	70%	270.06	67.20	337.26	280.72	69.80	350.52	3.93%
5,840	10	80%	306.99	67.20	374.19	319.11	69.80	388.91	3.93%
1,460	20	10%	85.37	134.40	219.77	88.73	139.60	228.33	3.90%
2,190	20	15%	122.30	134.40	256.70	127.12	139.60	266.72	3.90%
2,920	20	20%	159.24	134.40	293.64	165.52	139.60	305.12	3.91%
3,650	20	25%	196.18	134.40	330.58	203.92	139.60	343.52	3.91%
4,380	20	30%	233.12	134.40	367.52	242.32	139.60	381.92	3.92%
5,110	20	35%	270.06	134.40	404.46	280.72	139.60	420.32	3.92%
5,840	20	40%	306.99	134.40	441.39	319.11	139.60	458.71	3.92%
6,570	20	45%	343.93	134.40	478.33	357.51	139.60	497.11	3.93%
7,300	20	50%	380.87	134.40	515.27	395.91	139.60	535.51	3.93%
8,760	20	60%	454.75	134.40	589.15	472.71	139.60	612.31	3.93%
10,220	20	70%	528.62	134.40	663.02	549.50	139.60	689.10	3.93%
11,680	20	80%	602.50	134.40	736.90	626.30	139.60	765.90	3.94%
2,190	30	10%	122.30	201.60	323.90	127.12	209.40	336.52	3.90%
3,285	30	15%	177.71	201.60	379.31	184.72	209.40	394.12	3.90%
4,380	30	20%	233.12	201.60	434.72	242.32	209.40	451.72	3.91%
5,475	30	25%	288.53	201.60	490.13	299.92	209.40	509.32	3.92%
6,570	30	30%	343.93	201.60	545.53	357.51	209.40	566.91	3.92%
7,665	30	35%	399.34	201.60	600.94	415.11	209.40	624.51	3.92%
8,760	30	40%	454.75	201.60	656.35	472.71	209.40	682.11	3.92%
9,855	30	45%	510.15	201.60	711.75	530.30	209.40	739.70	3.93%
10,950	30	50%	565.56	201.60	767.16	587.90	209.40	797.30	3.93%
13,140	30	60%	676.37	201.60	877.97	703.09	209.40	912.49	3.93%
15,330	30	70%	787.19	201.60	988.79	818.29	209.40	1,027.69	3.93%
17,520	30	80%	898.00	201.60	1,099.60	933.48	209.40	1,142.88	3.94%
2,920	40	10%	159.24	268.80	428.04	165.52	279.20	444.72	3.90%
4,380	40	15%	233.12	268.80	501.92	242.32	279.20	521.52	3.91%
5,840	40	20%	306.99	268.80	575.79	319.11	279.20	598.31	3.91%
7,300	40	25%	380.87	268.80	649.67	395.91	279.20	675.11	3.92%
8,760	40	30%	454.75	268.80	723.55	472.71	279.20	751.91	3.92%
10,220	40	35%	528.62	268.80	797.42	549.50	279.20	828.70	3.92%
11,680	40	40%	602.50	268.80	871.30	626.30	279.20	905.50	3.93%
13,140	40	45%	676.37	268.80	945.17	703.09	279.20	982.29	3.93%
14,600	40	50%	750.25	268.80	1,019.05	779.89	279.20	1,059.09	3.93%
17,520	40	60%	898.00	268.80	1,166.80	933.48	279.20	1,212.68	3.93%
20,440	40	70%	1,045.75	268.80	1,314.55	1,087.07	279.20	1,366.27	3.93%
23,360	40	80%	1,193.51	268.80	1,462.31	1,240.67	279.20	1,519.87	3.94%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
TYPICAL BILLS: EXISTING VS. PROPOSED RATES
SMALL COMMERCIAL RATE 20 - WINTER - PERMANENT RATE INCREASE

Tariff Advice No. 453-1

PRESENT RATES:	
ALL KILOWATT-HOURS (\$/KWH)	\$0.1157
CUSTOMER CHARGE (\$/MONTH)	\$18.80

PROPOSED RATES:	
ALL KILOWATT-HOURS (\$/KWH)	\$0.1251
CUSTOMER CHARGE (\$/MONTH)	\$20.32

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES		
	PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
0	18.80	20.32	8.09%
100	30.37	32.83	8.10%
200	41.94	45.34	8.11%
300	53.51	57.85	8.11%
400	65.08	70.36	8.11%
500	76.65	82.87	8.11%
600	88.22	95.38	8.12%
700	99.79	107.89	8.12%
800	111.36	120.40	8.12%
900	122.93	132.91	8.12%
1,000	134.50	145.42	8.12%
1,100	146.07	157.93	8.12%
1,200	157.64	170.44	8.12%
1,300	169.21	182.95	8.12%
1,400	180.78	195.46	8.12%
1,500	192.35	207.97	8.12%
1,600	203.92	220.48	8.12%
1,700	215.49	232.99	8.12%
1,800	227.06	245.50	8.12%
1,900	238.63	258.01	8.12%
2,000	250.20	270.52	8.12%
2,100	261.77	283.03	8.12%
2,200	273.34	295.54	8.12%
2,300	284.91	308.05	8.12%
2,400	296.48	320.56	8.12%
2,500	308.05	333.07	8.12%
2,600	319.62	345.58	8.12%
2,700	331.19	358.09	8.12%
2,800	342.76	370.60	8.12%
2,900	354.33	383.11	8.12%
3,000	365.90	395.62	8.12%
3,100	377.47	408.13	8.12%
3,200	389.04	420.64	8.12%
3,300	400.61	433.15	8.12%
3,400	412.18	445.66	8.12%
3,500	423.75	458.17	8.12%
3,600	435.32	470.68	8.12%
3,700	446.89	483.19	8.12%
3,800	458.46	495.70	8.12%
3,900	470.03	508.21	8.12%
4,000	481.60	520.72	8.12%

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES		
	PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
4,100	493.17	533.23	8.12%
4,200	504.74	545.74	8.12%
4,300	516.31	558.25	8.12%
4,400	527.88	570.76	8.12%
4,500	539.45	583.27	8.12%
4,600	551.02	595.78	8.12%
4,700	562.59	608.29	8.12%
4,800	574.16	620.80	8.12%
4,900	585.73	633.31	8.12%
5,000	597.30	645.82	8.12%
5,100	608.87	658.33	8.12%
5,200	620.44	670.84	8.12%
5,300	632.01	683.35	8.12%
5,400	643.58	695.86	8.12%
5,500	655.15	708.37	8.12%
5,600	666.72	720.88	8.12%
5,700	678.29	733.39	8.12%
5,800	689.86	745.90	8.12%
5,900	701.43	758.41	8.12%
6,000	713.00	770.92	8.12%
6,100	724.57	783.43	8.12%
6,200	736.14	795.94	8.12%
6,300	747.71	808.45	8.12%
6,400	759.28	820.96	8.12%
6,500	770.85	833.47	8.12%
6,600	782.42	845.98	8.12%
6,700	793.99	858.49	8.12%
6,800	805.56	871.00	8.12%
6,900	817.13	883.51	8.12%
7,000	828.70	896.02	8.12%
7,100	840.27	908.53	8.12%
7,200	851.84	921.04	8.12%
7,300	863.41	933.55	8.12%
7,400	874.98	946.06	8.12%
7,500	886.55	958.57	8.12%
7,600	898.12	971.08	8.12%
7,700	909.69	983.59	8.12%
7,800	921.26	996.10	8.12%
7,900	932.83	1,008.61	8.12%
8,000	944.40	1,021.12	8.12%

ALASKA ELECTRIC LIGHT AND POWER COMPANY

Tariff Advice No. 453-1

TYPICAL BILLS: EXISTING VS. PROPOSED RATES

SMALL COMMERCIAL RATE 20 - SUMMER - PERMANENT RATE INCREASE

PRESENT RATES:

ALL KILOWATT-HOURS (\$/KWH)	\$0.0920
CUSTOMER CHARGE (\$/MONTH)	\$18.80

PROPOSED RATES:

ALL KILOWATT-HOURS (\$/KWH)	\$0.0995
CUSTOMER CHARGE (\$/MONTH)	\$20.32

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
0	18.80	20.32	8.09%
100	28.00	30.27	8.11%
200	37.20	40.22	8.12%
300	46.40	50.17	8.13%
400	55.60	60.12	8.13%
500	64.80	70.07	8.13%
600	74.00	80.02	8.14%
700	83.20	89.97	8.14%
800	92.40	99.92	8.14%
900	101.60	109.87	8.14%
1,000	110.80	119.82	8.14%
1,100	120.00	129.77	8.14%
1,200	129.20	139.72	8.14%
1,300	138.40	149.67	8.14%
1,400	147.60	159.62	8.14%
1,500	156.80	169.57	8.14%
1,600	166.00	179.52	8.14%
1,700	175.20	189.47	8.14%
1,800	184.40	199.42	8.15%
1,900	193.60	209.37	8.15%
2,000	202.80	219.32	8.15%
2,100	212.00	229.27	8.15%
2,200	221.20	239.22	8.15%
2,300	230.40	249.17	8.15%
2,400	239.60	259.12	8.15%
2,500	248.80	269.07	8.15%
2,600	258.00	279.02	8.15%
2,700	267.20	288.97	8.15%
2,800	276.40	298.92	8.15%
2,900	285.60	308.87	8.15%
3,000	294.80	318.82	8.15%
3,100	304.00	328.77	8.15%
3,200	313.20	338.72	8.15%
3,300	322.40	348.67	8.15%
3,400	331.60	358.62	8.15%
3,500	340.80	368.57	8.15%
3,600	350.00	378.52	8.15%
3,700	359.20	388.47	8.15%
3,800	368.40	398.42	8.15%
3,900	377.60	408.37	8.15%
4,000	386.80	418.32	8.15%

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
4,100	396.00	428.27	8.15%
4,200	405.20	438.22	8.15%
4,300	414.40	448.17	8.15%
4,400	423.60	458.12	8.15%
4,500	432.80	468.07	8.15%
4,600	442.00	478.02	8.15%
4,700	451.20	487.97	8.15%
4,800	460.40	497.92	8.15%
4,900	469.60	507.87	8.15%
5,000	478.80	517.82	8.15%
5,100	488.00	527.77	8.15%
5,200	497.20	537.72	8.15%
5,300	506.40	547.67	8.15%
5,400	515.60	557.62	8.15%
5,500	524.80	567.57	8.15%
5,600	534.00	577.52	8.15%
5,700	543.20	587.47	8.15%
5,800	552.40	597.42	8.15%
5,900	561.60	607.37	8.15%
6,000	570.80	617.32	8.15%
6,100	580.00	627.27	8.15%
6,200	589.20	637.22	8.15%
6,300	598.40	647.17	8.15%
6,400	607.60	657.12	8.15%
6,500	616.80	667.07	8.15%
6,600	626.00	677.02	8.15%
6,700	635.20	686.97	8.15%
6,800	644.40	696.92	8.15%
6,900	653.60	706.87	8.15%
7,000	662.80	716.82	8.15%
7,100	672.00	726.77	8.15%
7,200	681.20	736.72	8.15%
7,300	690.40	746.67	8.15%
7,400	699.60	756.62	8.15%
7,500	708.80	766.57	8.15%
7,600	718.00	776.52	8.15%
7,700	727.20	786.47	8.15%
7,800	736.40	796.42	8.15%
7,900	745.60	806.37	8.15%
8,000	754.80	816.32	8.15%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
TYPICAL BILLS: EXISTING VS. PROPOSED RATES
SMALL COMMERCIAL RATE 20 - WINTER - INTERIM RATE INCREASE

Tariff Advice No. 453-1

PRESENT RATES:	
ALL KILOWATT-HOURS (\$/KWH)	\$0.1157
CUSTOMER CHARGE (\$/MONTH)	\$18.80

PROPOSED RATES:	
ALL KILOWATT-HOURS (\$/KWH)	\$0.1202
CUSTOMER CHARGE (\$/MONTH)	19.53

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
0	18.80	19.53	3.88%
100	30.37	31.55	3.89%
200	41.94	43.57	3.89%
300	53.51	55.59	3.89%
400	65.08	67.61	3.89%
500	76.65	79.63	3.89%
600	88.22	91.65	3.89%
700	99.79	103.67	3.89%
800	111.36	115.69	3.89%
900	122.93	127.71	3.89%
1,000	134.50	139.73	3.89%
1,100	146.07	151.75	3.89%
1,200	157.64	163.77	3.89%
1,300	169.21	175.79	3.89%
1,400	180.78	187.81	3.89%
1,500	192.35	199.83	3.89%
1,600	203.92	211.85	3.89%
1,700	215.49	223.87	3.89%
1,800	227.06	235.89	3.89%
1,900	238.63	247.91	3.89%
2,000	250.20	259.93	3.89%
2,100	261.77	271.95	3.89%
2,200	273.34	283.97	3.89%
2,300	284.91	295.99	3.89%
2,400	296.48	308.01	3.89%
2,500	308.05	320.03	3.89%
2,600	319.62	332.05	3.89%
2,700	331.19	344.07	3.89%
2,800	342.76	356.09	3.89%
2,900	354.33	368.11	3.89%
3,000	365.90	380.13	3.89%
3,100	377.47	392.15	3.89%
3,200	389.04	404.17	3.89%
3,300	400.61	416.19	3.89%
3,400	412.18	428.21	3.89%
3,500	423.75	440.23	3.89%
3,600	435.32	452.25	3.89%
3,700	446.89	464.27	3.89%
3,800	458.46	476.29	3.89%
3,900	470.03	488.31	3.89%
4,000	481.60	500.33	3.89%

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
4,100	493.17	512.35	3.89%
4,200	504.74	524.37	3.89%
4,300	516.31	536.39	3.89%
4,400	527.88	548.41	3.89%
4,500	539.45	560.43	3.89%
4,600	551.02	572.45	3.89%
4,700	562.59	584.47	3.89%
4,800	574.16	596.49	3.89%
4,900	585.73	608.51	3.89%
5,000	597.30	620.53	3.89%
5,100	608.87	632.55	3.89%
5,200	620.44	644.57	3.89%
5,300	632.01	656.59	3.89%
5,400	643.58	668.61	3.89%
5,500	655.15	680.63	3.89%
5,600	666.72	692.65	3.89%
5,700	678.29	704.67	3.89%
5,800	689.86	716.69	3.89%
5,900	701.43	728.71	3.89%
6,000	713.00	740.73	3.89%
6,100	724.57	752.75	3.89%
6,200	736.14	764.77	3.89%
6,300	747.71	776.79	3.89%
6,400	759.28	788.81	3.89%
6,500	770.85	800.83	3.89%
6,600	782.42	812.85	3.89%
6,700	793.99	824.87	3.89%
6,800	805.56	836.89	3.89%
6,900	817.13	848.91	3.89%
7,000	828.70	860.93	3.89%
7,100	840.27	872.95	3.89%
7,200	851.84	884.97	3.89%
7,300	863.41	896.99	3.89%
7,400	874.98	909.01	3.89%
7,500	886.55	921.03	3.89%
7,600	898.12	933.05	3.89%
7,700	909.69	945.07	3.89%
7,800	921.26	957.09	3.89%
7,900	932.83	969.11	3.89%
8,000	944.40	981.13	3.89%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
TYPICAL BILLS: EXISTING VS. PROPOSED RATES
SMALL COMMERCIAL RATE 20 - SUMMER - INTERIM RATE INCREASE

Tariff Advice No. 453-1

PRESENT RATES:	
ALL KILOWATT-HOURS (\$/KWH)	\$0.0920
CUSTOMER CHARGE (\$/MONTH)	\$18.80

PROPOSED RATES:	
ALL KILOWATT-HOURS (\$/KWH)	\$0.0956
CUSTOMER CHARGE (\$/MONTH)	19.53

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
0	18.80	19.53	3.88%
100	28.00	29.09	3.89%
200	37.20	38.65	3.90%
300	46.40	48.21	3.90%
400	55.60	57.77	3.90%
500	64.80	67.33	3.90%
600	74.00	76.89	3.91%
700	83.20	86.45	3.91%
800	92.40	96.01	3.91%
900	101.60	105.57	3.91%
1,000	110.80	115.13	3.91%
1,100	120.00	124.69	3.91%
1,200	129.20	134.25	3.91%
1,300	138.40	143.81	3.91%
1,400	147.60	153.37	3.91%
1,500	156.80	162.93	3.91%
1,600	166.00	172.49	3.91%
1,700	175.20	182.05	3.91%
1,800	184.40	191.61	3.91%
1,900	193.60	201.17	3.91%
2,000	202.80	210.73	3.91%
2,100	212.00	220.29	3.91%
2,200	221.20	229.85	3.91%
2,300	230.40	239.41	3.91%
2,400	239.60	248.97	3.91%
2,500	248.80	258.53	3.91%
2,600	258.00	268.09	3.91%
2,700	267.20	277.65	3.91%
2,800	276.40	287.21	3.91%
2,900	285.60	296.77	3.91%
3,000	294.80	306.33	3.91%
3,100	304.00	315.89	3.91%
3,200	313.20	325.45	3.91%
3,300	322.40	335.01	3.91%
3,400	331.60	344.57	3.91%
3,500	340.80	354.13	3.91%
3,600	350.00	363.69	3.91%
3,700	359.20	373.25	3.91%
3,800	368.40	382.81	3.91%
3,900	377.60	392.37	3.91%
4,000	386.80	401.93	3.91%

ENERGY CONSUMPTION (KWH)	CUSTOMER AND ENERGY CHARGES PRESENT (\$)	PROPOSED (\$)	INCREASE (%)
4,100	396.00	411.49	3.91%
4,200	405.20	421.05	3.91%
4,300	414.40	430.61	3.91%
4,400	423.60	440.17	3.91%
4,500	432.80	449.73	3.91%
4,600	442.00	459.29	3.91%
4,700	451.20	468.85	3.91%
4,800	460.40	478.41	3.91%
4,900	469.60	487.97	3.91%
5,000	478.80	497.53	3.91%
5,100	488.00	507.09	3.91%
5,200	497.20	516.65	3.91%
5,300	506.40	526.21	3.91%
5,400	515.60	535.77	3.91%
5,500	524.80	545.33	3.91%
5,600	534.00	554.89	3.91%
5,700	543.20	564.45	3.91%
5,800	552.40	574.01	3.91%
5,900	561.60	583.57	3.91%
6,000	570.80	593.13	3.91%
6,100	580.00	602.69	3.91%
6,200	589.20	612.25	3.91%
6,300	598.40	621.81	3.91%
6,400	607.60	631.37	3.91%
6,500	616.80	640.93	3.91%
6,600	626.00	650.49	3.91%
6,700	635.20	660.05	3.91%
6,800	644.40	669.61	3.91%
6,900	653.60	679.17	3.91%
7,000	662.80	688.73	3.91%
7,100	672.00	698.29	3.91%
7,200	681.20	707.85	3.91%
7,300	690.40	717.41	3.91%
7,400	699.60	726.97	3.91%
7,500	708.80	736.53	3.91%
7,600	718.00	746.09	3.91%
7,700	727.20	755.65	3.91%
7,800	736.40	765.21	3.91%
7,900	745.60	774.77	3.91%
8,000	754.80	784.33	3.91%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
SMALL COMMERCIAL RATE 20 - WINTER - PERMANENT RATE INCREASE

Tariff Advice No. 453-1

EXISTING THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0665
CUSTOMER CHARGE (\$/MONTH)	\$27.16
DEMAND CHARGE, PER KW	\$12.73

PROPOSED THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0719
CUSTOMER CHARGE (\$/MONTH)	\$29.36
DEMAND CHARGE, PER KW	\$13.76

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
730	10	10%	75.71	127.30	203.01	81.85	137.60	219.45	8.10%
1,095	10	15%	99.98	127.30	227.28	108.09	137.60	245.69	8.10%
1,460	10	20%	124.25	127.30	251.55	134.33	137.60	271.93	8.10%
1,825	10	25%	148.52	127.30	275.82	160.58	137.60	298.18	8.10%
2,190	10	30%	172.80	127.30	300.10	186.82	137.60	324.42	8.11%
2,555	10	35%	197.07	127.30	324.37	213.06	137.60	350.66	8.11%
2,920	10	40%	221.34	127.30	348.64	239.31	137.60	376.91	8.11%
3,285	10	45%	245.61	127.30	372.91	265.55	137.60	403.15	8.11%
3,650	10	50%	269.89	127.30	397.19	291.80	137.60	429.40	8.11%
4,380	10	60%	318.43	127.30	445.73	344.28	137.60	481.88	8.11%
5,110	10	70%	366.98	127.30	494.28	396.77	137.60	534.37	8.11%
5,840	10	80%	415.52	127.30	542.82	449.26	137.60	586.86	8.11%
1,460	20	10%	124.25	254.60	378.85	134.33	275.20	409.53	8.10%
2,190	20	15%	172.80	254.60	427.40	186.82	275.20	462.02	8.10%
2,920	20	20%	221.34	254.60	475.94	239.31	275.20	514.51	8.10%
3,650	20	25%	269.89	254.60	524.49	291.80	275.20	567.00	8.11%
4,380	20	30%	318.43	254.60	573.03	344.28	275.20	619.48	8.11%
5,110	20	35%	366.98	254.60	621.58	396.77	275.20	671.97	8.11%
5,840	20	40%	415.52	254.60	670.12	449.26	275.20	724.46	8.11%
6,570	20	45%	464.07	254.60	718.67	501.74	275.20	776.94	8.11%
7,300	20	50%	512.61	254.60	767.21	554.23	275.20	829.43	8.11%
8,760	20	60%	609.70	254.60	864.30	659.20	275.20	934.40	8.11%
10,220	20	70%	706.79	254.60	961.39	764.18	275.20	1,039.38	8.11%
11,680	20	80%	803.88	254.60	1,058.48	869.15	275.20	1,144.35	8.11%
2,190	30	10%	172.80	381.90	554.70	186.82	412.80	599.62	8.10%
3,285	30	15%	245.61	381.90	627.51	265.55	412.80	678.35	8.10%
4,380	30	20%	318.43	381.90	700.33	344.28	412.80	757.08	8.10%
5,475	30	25%	391.25	381.90	773.15	423.01	412.80	835.81	8.11%
6,570	30	30%	464.07	381.90	845.97	501.74	412.80	914.54	8.11%
7,665	30	35%	536.88	381.90	918.78	580.47	412.80	993.27	8.11%
8,760	30	40%	609.70	381.90	991.60	659.20	412.80	1,072.00	8.11%
9,855	30	45%	682.52	381.90	1,064.42	737.93	412.80	1,150.73	8.11%
10,950	30	50%	755.34	381.90	1,137.24	816.67	412.80	1,229.47	8.11%
13,140	30	60%	900.97	381.90	1,282.87	974.13	412.80	1,386.93	8.11%
15,330	30	70%	1,046.61	381.90	1,428.51	1,131.59	412.80	1,544.39	8.11%
17,520	30	80%	1,192.24	381.90	1,574.14	1,289.05	412.80	1,701.85	8.11%
2,920	40	10%	221.34	509.20	730.54	239.31	550.40	789.71	8.10%
4,380	40	15%	318.43	509.20	827.63	344.28	550.40	894.68	8.10%
5,840	40	20%	415.52	509.20	924.72	449.26	550.40	999.66	8.10%
7,300	40	25%	512.61	509.20	1,021.81	554.23	550.40	1,104.63	8.11%
8,760	40	30%	609.70	509.20	1,118.90	659.20	550.40	1,209.60	8.11%
10,220	40	35%	706.79	509.20	1,215.99	764.18	550.40	1,314.58	8.11%
11,680	40	40%	803.88	509.20	1,313.08	869.15	550.40	1,419.55	8.11%
13,140	40	45%	900.97	509.20	1,410.17	974.13	550.40	1,524.53	8.11%
14,600	40	50%	998.06	509.20	1,507.26	1,079.10	550.40	1,629.50	8.11%
17,520	40	60%	1,192.24	509.20	1,701.44	1,289.05	550.40	1,839.45	8.11%
20,440	40	70%	1,386.42	509.20	1,895.62	1,499.00	550.40	2,049.40	8.11%
23,360	40	80%	1,580.60	509.20	2,089.80	1,708.94	550.40	2,259.34	8.11%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
SMALL COMMERCIAL RATE 20 - SUMMER - PERMANENT RATE INCREASE

Tariff Advice No. 453-1

EXISTING THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0589
CUSTOMER CHARGE (\$/MONTH)	\$27.16
DEMAND CHARGE, PER KW	\$8.52

PROPOSED THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0637
CUSTOMER CHARGE (\$/MONTH)	\$29.36
DEMAND CHARGE, PER KW	\$9.21

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
730	10	10%	70.16	85.20	155.36	75.86	92.10	167.96	8.11%
1,095	10	15%	91.66	85.20	176.86	99.11	92.10	191.21	8.12%
1,460	10	20%	113.15	85.20	198.35	122.36	92.10	214.46	8.12%
1,825	10	25%	134.65	85.20	219.85	145.61	92.10	237.71	8.12%
2,190	10	30%	156.15	85.20	241.35	168.86	92.10	260.96	8.13%
2,555	10	35%	177.65	85.20	262.85	192.11	92.10	284.21	8.13%
2,920	10	40%	199.15	85.20	284.35	215.36	92.10	307.46	8.13%
3,285	10	45%	220.65	85.20	305.85	238.61	92.10	330.71	8.13%
3,650	10	50%	242.15	85.20	327.35	261.87	92.10	353.97	8.13%
4,380	10	60%	285.14	85.20	370.34	308.37	92.10	400.47	8.13%
5,110	10	70%	328.14	85.20	413.34	354.87	92.10	446.97	8.14%
5,840	10	80%	371.14	85.20	456.34	401.37	92.10	493.47	8.14%
1,460	20	10%	113.15	170.40	283.55	122.36	184.20	306.56	8.11%
2,190	20	15%	156.15	170.40	326.55	168.86	184.20	353.06	8.12%
2,920	20	20%	199.15	170.40	369.55	215.36	184.20	399.56	8.12%
3,650	20	25%	242.15	170.40	412.55	261.87	184.20	446.07	8.13%
4,380	20	30%	285.14	170.40	455.54	308.37	184.20	492.57	8.13%
5,110	20	35%	328.14	170.40	498.54	354.87	184.20	539.07	8.13%
5,840	20	40%	371.14	170.40	541.54	401.37	184.20	585.57	8.13%
6,570	20	45%	414.13	170.40	584.53	447.87	184.20	632.07	8.13%
7,300	20	50%	457.13	170.40	627.53	494.37	184.20	678.57	8.13%
8,760	20	60%	543.12	170.40	713.52	587.37	184.20	771.57	8.14%
10,220	20	70%	629.12	170.40	799.52	680.37	184.20	864.57	8.14%
11,680	20	80%	715.11	170.40	885.51	773.38	184.20	957.58	8.14%
2,190	30	10%	156.15	255.60	411.75	168.86	276.30	445.16	8.11%
3,285	30	15%	220.65	255.60	476.25	238.61	276.30	514.91	8.12%
4,380	30	20%	285.14	255.60	540.74	308.37	276.30	584.67	8.12%
5,475	30	25%	349.64	255.60	605.24	378.12	276.30	654.42	8.13%
6,570	30	30%	414.13	255.60	669.73	447.87	276.30	724.17	8.13%
7,665	30	35%	478.63	255.60	734.23	517.62	276.30	793.92	8.13%
8,760	30	40%	543.12	255.60	798.72	587.37	276.30	863.67	8.13%
9,855	30	45%	607.62	255.60	863.22	657.12	276.30	933.42	8.13%
10,950	30	50%	672.12	255.60	927.72	726.88	276.30	1,003.18	8.13%
13,140	30	60%	801.11	255.60	1,056.71	866.38	276.30	1,142.68	8.14%
15,330	30	70%	930.10	255.60	1,185.70	1,005.88	276.30	1,282.18	8.14%
17,520	30	80%	1,059.09	255.60	1,314.69	1,145.38	276.30	1,421.68	8.14%
2,920	40	10%	199.15	340.80	539.95	215.36	368.40	583.76	8.11%
4,380	40	15%	285.14	340.80	625.94	308.37	368.40	676.77	8.12%
5,840	40	20%	371.14	340.80	711.94	401.37	368.40	769.77	8.12%
7,300	40	25%	457.13	340.80	797.93	494.37	368.40	862.77	8.13%
8,760	40	30%	543.12	340.80	883.92	587.37	368.40	955.77	8.13%
10,220	40	35%	629.12	340.80	969.92	680.37	368.40	1,048.77	8.13%
11,680	40	40%	715.11	340.80	1,055.91	773.38	368.40	1,141.78	8.13%
13,140	40	45%	801.11	340.80	1,141.91	866.38	368.40	1,234.78	8.13%
14,600	40	50%	887.10	340.80	1,227.90	959.38	368.40	1,327.78	8.13%
17,520	40	60%	1,059.09	340.80	1,399.89	1,145.38	368.40	1,513.78	8.14%
20,440	40	70%	1,231.08	340.80	1,571.88	1,331.39	368.40	1,699.79	8.14%
23,360	40	80%	1,403.06	340.80	1,743.86	1,517.39	368.40	1,885.79	8.14%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
SMALL COMMERCIAL RATE 20 - WINTER - INTERIM RATE INCREASE

Tariff Advice No. 453-1

EXISTING THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0665
CUSTOMER CHARGE (\$/MONTH)	\$27.16
DEMAND CHARGE, PER KW	\$12.73

PROPOSED THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0691
CUSTOMER CHARGE (\$/MONTH)	28.21
DEMAND CHARGE, PER KW	13.22

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
730	10	10%	75.71	127.30	203.01	78.65	132.20	210.85	3.87%
1,095	10	15%	99.98	127.30	227.28	103.87	132.20	236.07	3.87%
1,460	10	20%	124.25	127.30	251.55	129.10	132.20	261.30	3.87%
1,825	10	25%	148.52	127.30	275.82	154.32	132.20	286.52	3.88%
2,190	10	30%	172.80	127.30	300.10	179.54	132.20	311.74	3.88%
2,555	10	35%	197.07	127.30	324.37	204.76	132.20	336.96	3.88%
2,920	10	40%	221.34	127.30	348.64	229.98	132.20	362.18	3.88%
3,285	10	45%	245.61	127.30	372.91	255.20	132.20	387.40	3.89%
3,650	10	50%	269.89	127.30	397.19	280.43	132.20	412.63	3.89%
4,380	10	60%	318.43	127.30	445.73	330.87	132.20	463.07	3.89%
5,110	10	70%	366.98	127.30	494.28	381.31	132.20	513.51	3.89%
5,840	10	80%	415.52	127.30	542.82	431.75	132.20	563.95	3.89%
1,460	20	10%	124.25	254.60	378.85	129.10	264.40	393.50	3.87%
2,190	20	15%	172.80	254.60	427.40	179.54	264.40	443.94	3.87%
2,920	20	20%	221.34	254.60	475.94	229.98	264.40	494.38	3.87%
3,650	20	25%	269.89	254.60	524.49	280.43	264.40	544.83	3.88%
4,380	20	30%	318.43	254.60	573.03	330.87	264.40	595.27	3.88%
5,110	20	35%	366.98	254.60	621.58	381.31	264.40	645.71	3.88%
5,840	20	40%	415.52	254.60	670.12	431.75	264.40	696.15	3.88%
6,570	20	45%	464.07	254.60	718.67	482.20	264.40	746.60	3.89%
7,300	20	50%	512.61	254.60	767.21	532.64	264.40	797.04	3.89%
8,760	20	60%	609.70	254.60	864.30	633.53	264.40	897.93	3.89%
10,220	20	70%	706.79	254.60	961.39	734.41	264.40	998.81	3.89%
11,680	20	80%	803.88	254.60	1,058.48	835.30	264.40	1,099.70	3.89%
2,190	30	10%	172.80	381.90	554.70	179.54	396.60	576.14	3.87%
3,285	30	15%	245.61	381.90	627.51	255.20	396.60	651.80	3.87%
4,380	30	20%	318.43	381.90	700.33	330.87	396.60	727.47	3.88%
5,475	30	25%	391.25	381.90	773.15	406.53	396.60	803.13	3.88%
6,570	30	30%	464.07	381.90	845.97	482.20	396.60	878.80	3.88%
7,665	30	35%	536.88	381.90	918.78	557.86	396.60	954.46	3.88%
8,760	30	40%	609.70	381.90	991.60	633.53	396.60	1,030.13	3.89%
9,855	30	45%	682.52	381.90	1,064.42	709.19	396.60	1,105.79	3.89%
10,950	30	50%	755.34	381.90	1,137.24	784.86	396.60	1,181.46	3.89%
13,140	30	60%	900.97	381.90	1,282.87	936.18	396.60	1,332.78	3.89%
15,330	30	70%	1,046.61	381.90	1,428.51	1,087.51	396.60	1,484.11	3.89%
17,520	30	80%	1,192.24	381.90	1,574.14	1,238.84	396.60	1,635.44	3.89%
2,920	40	10%	221.34	509.20	730.54	229.98	528.80	758.78	3.87%
4,380	40	15%	318.43	509.20	827.63	330.87	528.80	859.67	3.87%
5,840	40	20%	415.52	509.20	924.72	431.75	528.80	960.55	3.88%
7,300	40	25%	512.61	509.20	1,021.81	532.64	528.80	1,061.44	3.88%
8,760	40	30%	609.70	509.20	1,118.90	633.53	528.80	1,162.33	3.88%
10,220	40	35%	706.79	509.20	1,215.99	734.41	528.80	1,263.21	3.88%
11,680	40	40%	803.88	509.20	1,313.08	835.30	528.80	1,364.10	3.89%
13,140	40	45%	900.97	509.20	1,410.17	936.18	528.80	1,464.98	3.89%
14,600	40	50%	998.06	509.20	1,507.26	1,037.07	528.80	1,565.87	3.89%
17,520	40	60%	1,192.24	509.20	1,701.44	1,238.84	528.80	1,767.64	3.89%
20,440	40	70%	1,386.42	509.20	1,895.62	1,440.61	528.80	1,969.41	3.89%
23,360	40	80%	1,580.60	509.20	2,089.80	1,642.39	528.80	2,171.19	3.89%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
SMALL COMMERCIAL RATE 20 - SUMMER - INTERIM RATE INCREASE

Tariff Advice No. 453-1

EXISTING THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0589
CUSTOMER CHARGE (\$/MONTH)	\$27.16
DEMAND CHARGE, PER KW	\$8.52

PROPOSED THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0612
CUSTOMER CHARGE (\$/MONTH)	28.21
DEMAND CHARGE, PER KW	8.85

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
730	10	10%	70.16	85.20	155.36	72.89	88.50	161.39	3.88%
1,095	10	15%	91.66	85.20	176.86	95.22	88.50	183.72	3.88%
1,460	10	20%	113.15	85.20	198.35	117.56	88.50	206.06	3.89%
1,825	10	25%	134.65	85.20	219.85	139.90	88.50	228.40	3.89%
2,190	10	30%	156.15	85.20	241.35	162.24	88.50	250.74	3.89%
2,555	10	35%	177.65	85.20	262.85	184.58	88.50	273.08	3.89%
2,920	10	40%	199.15	85.20	284.35	206.91	88.50	295.41	3.89%
3,285	10	45%	220.65	85.20	305.85	229.25	88.50	317.75	3.89%
3,650	10	50%	242.15	85.20	327.35	251.59	88.50	340.09	3.89%
4,380	10	60%	285.14	85.20	370.34	296.27	88.50	384.77	3.89%
5,110	10	70%	328.14	85.20	413.34	340.94	88.50	429.44	3.90%
5,840	10	80%	371.14	85.20	456.34	385.62	88.50	474.12	3.90%
1,460	20	10%	113.15	170.40	283.55	117.56	177.00	294.56	3.88%
2,190	20	15%	156.15	170.40	326.55	162.24	177.00	339.24	3.89%
2,920	20	20%	199.15	170.40	369.55	206.91	177.00	383.91	3.89%
3,650	20	25%	242.15	170.40	412.55	251.59	177.00	428.59	3.89%
4,380	20	30%	285.14	170.40	455.54	296.27	177.00	473.27	3.89%
5,110	20	35%	328.14	170.40	498.54	340.94	177.00	517.94	3.89%
5,840	20	40%	371.14	170.40	541.54	385.62	177.00	562.62	3.89%
6,570	20	45%	414.13	170.40	584.53	430.29	177.00	607.29	3.89%
7,300	20	50%	457.13	170.40	627.53	474.97	177.00	651.97	3.89%
8,760	20	60%	543.12	170.40	713.52	564.32	177.00	741.32	3.90%
10,220	20	70%	629.12	170.40	799.52	653.67	177.00	830.67	3.90%
11,680	20	80%	715.11	170.40	885.51	743.03	177.00	920.03	3.90%
2,190	30	10%	156.15	255.60	411.75	162.24	265.50	427.74	3.88%
3,285	30	15%	220.65	255.60	476.25	229.25	265.50	494.75	3.89%
4,380	30	20%	285.14	255.60	540.74	296.27	265.50	561.77	3.89%
5,475	30	25%	349.64	255.60	605.24	363.28	265.50	628.78	3.89%
6,570	30	30%	414.13	255.60	669.73	430.29	265.50	695.79	3.89%
7,665	30	35%	478.63	255.60	734.23	497.31	265.50	762.81	3.89%
8,760	30	40%	543.12	255.60	798.72	564.32	265.50	829.82	3.89%
9,855	30	45%	607.62	255.60	863.22	631.34	265.50	896.84	3.89%
10,950	30	50%	672.12	255.60	927.72	698.35	265.50	963.85	3.90%
13,140	30	60%	801.11	255.60	1,056.71	832.38	265.50	1,097.88	3.90%
15,330	30	70%	930.10	255.60	1,185.70	966.41	265.50	1,231.91	3.90%
17,520	30	80%	1,059.09	255.60	1,314.69	1,100.43	265.50	1,365.93	3.90%
2,920	40	10%	199.15	340.80	539.95	206.91	354.00	560.91	3.88%
4,380	40	15%	285.14	340.80	625.94	296.27	354.00	650.27	3.89%
5,840	40	20%	371.14	340.80	711.94	385.62	354.00	739.62	3.89%
7,300	40	25%	457.13	340.80	797.93	474.97	354.00	828.97	3.89%
8,760	40	30%	543.12	340.80	883.92	564.32	354.00	918.32	3.89%
10,220	40	35%	629.12	340.80	969.92	653.67	354.00	1,007.67	3.89%
11,680	40	40%	715.11	340.80	1,055.91	743.03	354.00	1,097.03	3.89%
13,140	40	45%	801.11	340.80	1,141.91	832.38	354.00	1,186.38	3.89%
14,600	40	50%	887.10	340.80	1,227.90	921.73	354.00	1,275.73	3.90%
17,520	40	60%	1,059.09	340.80	1,399.89	1,100.43	354.00	1,454.43	3.90%
20,440	40	70%	1,231.08	340.80	1,571.88	1,279.14	354.00	1,633.14	3.90%
23,360	40	80%	1,403.06	340.80	1,743.86	1,457.84	354.00	1,811.84	3.90%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
 EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
 LARGE COMMERCIAL RATE 24 - WINTER - PERMANENT RATE INCREASE

Tariff Advice No. 453-1

EXISTING RATE:	
ENERGY CHARGE, PER KWH	\$0.0611
CUSTOMER CHARGE (\$/MONTH)	\$99.24
DEMAND CHARGE, PER KW	\$14.30

PROPOSED RATE:	
ENERGY CHARGE, PER KWH	\$0.0660
CUSTOMER CHARGE (\$/MONTH)	\$107.28
DEMAND CHARGE, PER KW	\$15.46

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
3,650	50	10%	322.26	715.00	1,037.26	348.18	773.00	1,121.18	8.09%
5,475	50	15%	433.76	715.00	1,148.76	468.63	773.00	1,241.63	8.08%
7,300	50	20%	545.27	715.00	1,260.27	589.08	773.00	1,362.08	8.08%
9,125	50	25%	656.78	715.00	1,371.78	709.53	773.00	1,482.53	8.07%
10,950	50	30%	768.29	715.00	1,483.29	829.98	773.00	1,602.98	8.07%
12,775	50	35%	879.79	715.00	1,594.79	950.43	773.00	1,723.43	8.07%
14,600	50	40%	991.30	715.00	1,706.30	1,070.88	773.00	1,843.88	8.06%
16,425	50	45%	1,102.81	715.00	1,817.81	1,191.33	773.00	1,964.33	8.06%
18,250	50	50%	1,214.32	715.00	1,929.32	1,311.78	773.00	2,084.78	8.06%
21,900	50	60%	1,437.33	715.00	2,152.33	1,552.68	773.00	2,325.68	8.05%
25,550	50	70%	1,660.35	715.00	2,375.35	1,793.58	773.00	2,566.58	8.05%
29,200	50	80%	1,883.36	715.00	2,598.36	2,034.48	773.00	2,807.48	8.05%
7,300	100	10%	545.27	1,430.00	1,975.27	589.08	1,546.00	2,135.08	8.09%
10,950	100	15%	768.29	1,430.00	2,198.29	829.98	1,546.00	2,375.98	8.08%
14,600	100	20%	991.30	1,430.00	2,421.30	1,070.88	1,546.00	2,616.88	8.08%
18,250	100	25%	1,214.32	1,430.00	2,644.32	1,311.78	1,546.00	2,857.78	8.07%
21,900	100	30%	1,437.33	1,430.00	2,867.33	1,552.68	1,546.00	3,098.68	8.07%
25,550	100	35%	1,660.35	1,430.00	3,090.35	1,793.58	1,546.00	3,339.58	8.06%
29,200	100	40%	1,883.36	1,430.00	3,313.36	2,034.48	1,546.00	3,580.48	8.06%
32,850	100	45%	2,106.38	1,430.00	3,536.38	2,275.38	1,546.00	3,821.38	8.06%
36,500	100	50%	2,329.39	1,430.00	3,759.39	2,516.28	1,546.00	4,062.28	8.06%
43,800	100	60%	2,775.42	1,430.00	4,205.42	2,998.08	1,546.00	4,544.08	8.05%
51,100	100	70%	3,221.45	1,430.00	4,651.45	3,479.88	1,546.00	5,025.88	8.05%
58,400	100	80%	3,667.48	1,430.00	5,097.48	3,961.68	1,546.00	5,507.68	8.05%
14,600	200	10%	991.30	2,860.00	3,851.30	1,070.88	3,092.00	4,162.88	8.09%
21,900	200	15%	1,437.33	2,860.00	4,297.33	1,552.68	3,092.00	4,644.68	8.08%
29,200	200	20%	1,883.36	2,860.00	4,743.36	2,034.48	3,092.00	5,126.48	8.08%
36,500	200	25%	2,329.39	2,860.00	5,189.39	2,516.28	3,092.00	5,608.28	8.07%
43,800	200	30%	2,775.42	2,860.00	5,635.42	2,998.08	3,092.00	6,090.08	8.07%
51,100	200	35%	3,221.45	2,860.00	6,081.45	3,479.88	3,092.00	6,571.88	8.06%
58,400	200	40%	3,667.48	2,860.00	6,527.48	3,961.68	3,092.00	7,053.68	8.06%
65,700	200	45%	4,113.51	2,860.00	6,973.51	4,443.48	3,092.00	7,535.48	8.06%
73,000	200	50%	4,559.54	2,860.00	7,419.54	4,925.28	3,092.00	8,017.28	8.06%
87,600	200	60%	5,451.60	2,860.00	8,311.60	5,888.88	3,092.00	8,980.88	8.05%
102,200	200	70%	6,343.66	2,860.00	9,203.66	6,852.48	3,092.00	9,944.48	8.05%
116,800	200	80%	7,235.72	2,860.00	10,095.72	7,816.08	3,092.00	10,908.08	8.05%
36,500	500	10%	2,329.39	7,150.00	9,479.39	2,516.28	7,730.00	10,246.28	8.09%
109,500	500	15%	6,789.69	7,150.00	13,939.69	7,334.28	7,730.00	15,064.28	8.07%
146,000	500	20%	9,019.84	7,150.00	16,169.84	9,743.28	7,730.00	17,473.28	8.06%
182,500	500	25%	11,249.99	7,150.00	18,399.99	12,152.28	7,730.00	19,882.28	8.06%
219,000	500	30%	13,480.14	7,150.00	20,630.14	14,561.28	7,730.00	22,291.28	8.05%
255,500	500	35%	15,710.29	7,150.00	22,860.29	16,970.28	7,730.00	24,700.28	8.05%
292,000	500	40%	17,940.44	7,150.00	25,090.44	19,379.28	7,730.00	27,109.28	8.05%
328,500	500	45%	20,170.59	7,150.00	27,320.59	21,788.28	7,730.00	29,518.28	8.04%
365,000	500	50%	22,400.74	7,150.00	29,550.74	24,197.28	7,730.00	31,927.28	8.04%
438,000	500	60%	26,861.04	7,150.00	34,011.04	29,015.28	7,730.00	36,745.28	8.04%
511,000	500	70%	31,321.34	7,150.00	38,471.34	33,833.28	7,730.00	41,563.28	8.04%
584,000	500	80%	35,781.64	7,150.00	42,931.64	38,651.28	7,730.00	46,381.28	8.04%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
 EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
 LARGE COMMERCIAL RATE 24 - WINTER - PERMANENT RATE INCREASE

Tariff Advice No. 453-1

EXISTING RATE:	
ENERGY CHARGE, PER KWH	\$0.0611
CUSTOMER CHARGE (\$/MONTH)	\$99.24
DEMAND CHARGE, PER KW	\$14.30

PROPOSED RATE:	
ENERGY CHARGE, PER KWH	\$0.0660
CUSTOMER CHARGE (\$/MONTH)	\$107.28
DEMAND CHARGE, PER KW	\$15.46

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
73,000	1,000	10%	4,559.54	14,300.00	18,859.54	4,925.28	15,460.00	20,385.28	8.09%
109,500	1,000	15%	6,789.69	14,300.00	21,089.69	7,334.28	15,460.00	22,794.28	8.08%
146,000	1,000	20%	9,019.84	14,300.00	23,319.84	9,743.28	15,460.00	25,203.28	8.08%
182,500	1,000	25%	11,249.99	14,300.00	25,549.99	12,152.28	15,460.00	27,612.28	8.07%
219,000	1,000	30%	13,480.14	14,300.00	27,780.14	14,561.28	15,460.00	30,021.28	8.07%
255,500	1,000	35%	15,710.29	14,300.00	30,010.29	16,970.28	15,460.00	32,430.28	8.06%
292,000	1,000	40%	17,940.44	14,300.00	32,240.44	19,379.28	15,460.00	34,839.28	8.06%
328,500	1,000	45%	20,170.59	14,300.00	34,470.59	21,788.28	15,460.00	37,248.28	8.06%
365,000	1,000	50%	22,400.74	14,300.00	36,700.74	24,197.28	15,460.00	39,657.28	8.06%
438,000	1,000	60%	26,861.04	14,300.00	41,161.04	29,015.28	15,460.00	44,475.28	8.05%
511,000	1,000	70%	31,321.34	14,300.00	45,621.34	33,833.28	15,460.00	49,293.28	8.05%
584,000	1,000	80%	35,781.64	14,300.00	50,081.64	38,651.28	15,460.00	54,111.28	8.05%
73,000	2,000	10%	4,559.54	28,600.00	33,159.54	4,925.28	30,920.00	35,845.28	8.10%
109,500	2,000	15%	6,789.69	28,600.00	35,389.69	7,334.28	30,920.00	38,254.28	8.09%
146,000	2,000	20%	9,019.84	28,600.00	37,619.84	9,743.28	30,920.00	40,663.28	8.09%
182,500	2,000	25%	11,249.99	28,600.00	39,849.99	12,152.28	30,920.00	43,072.28	8.09%
219,000	2,000	30%	13,480.14	28,600.00	42,080.14	14,561.28	30,920.00	45,481.28	8.08%
255,500	2,000	35%	15,710.29	28,600.00	44,310.29	16,970.28	30,920.00	47,890.28	8.08%
292,000	2,000	40%	17,940.44	28,600.00	46,540.44	19,379.28	30,920.00	50,299.28	8.08%
328,500	2,000	45%	20,170.59	28,600.00	48,770.59	21,788.28	30,920.00	52,708.28	8.07%
365,000	2,000	50%	22,400.74	28,600.00	51,000.74	24,197.28	30,920.00	55,117.28	8.07%
438,000	2,000	60%	26,861.04	28,600.00	55,461.04	29,015.28	30,920.00	59,935.28	8.07%
511,000	2,000	70%	31,321.34	28,600.00	59,921.34	33,833.28	30,920.00	64,753.28	8.06%
584,000	2,000	80%	35,781.64	28,600.00	64,381.64	38,651.28	30,920.00	69,571.28	8.06%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
 EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
 LARGE COMMERCIAL RATE 24 - SUMMER - PERMANENT RATE INCREASE

Tariff Advice No. 453-1

EXISTING THREE-PART RATE:	
ENERGY CHARGE, PER KWH	\$0.0573
CUSTOMER CHARGE (\$/MONTH)	\$99.24
DEMAND CHARGE, PER KW	\$9.11

PROPOSED THREE-PART RATE:	
ENERGY CHARGE, PER KWH	\$0.0619
CUSTOMER CHARGE (\$/MONTH)	\$107.28
DEMAND CHARGE, PER KW	\$9.85

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
3,650	50	10%	308.39	455.50	763.89	333.22	492.50	825.72	8.09%
5,475	50	15%	412.96	455.50	868.46	446.18	492.50	938.68	8.09%
7,300	50	20%	517.53	455.50	973.03	559.15	492.50	1,051.65	8.08%
9,125	50	25%	622.10	455.50	1,077.60	672.12	492.50	1,164.62	8.07%
10,950	50	30%	726.68	455.50	1,182.18	785.09	492.50	1,277.59	8.07%
12,775	50	35%	831.25	455.50	1,286.75	898.05	492.50	1,390.55	8.07%
14,600	50	40%	935.82	455.50	1,391.32	1,011.02	492.50	1,503.52	8.06%
16,425	50	45%	1,040.39	455.50	1,495.89	1,123.99	492.50	1,616.49	8.06%
18,250	50	50%	1,144.97	455.50	1,600.47	1,236.96	492.50	1,729.46	8.06%
21,900	50	60%	1,354.11	455.50	1,809.61	1,462.89	492.50	1,955.39	8.06%
25,550	50	70%	1,563.26	455.50	2,018.76	1,688.83	492.50	2,181.33	8.05%
29,200	50	80%	1,772.40	455.50	2,227.90	1,914.76	492.50	2,407.26	8.05%
7,300	100	10%	517.53	911.00	1,428.53	559.15	985.00	1,544.15	8.09%
10,950	100	15%	726.68	911.00	1,637.68	785.09	985.00	1,770.09	8.09%
14,600	100	20%	935.82	911.00	1,846.82	1,011.02	985.00	1,996.02	8.08%
18,250	100	25%	1,144.97	911.00	2,055.97	1,236.96	985.00	2,221.96	8.07%
21,900	100	30%	1,354.11	911.00	2,265.11	1,462.89	985.00	2,447.89	8.07%
25,550	100	35%	1,563.26	911.00	2,474.26	1,688.83	985.00	2,673.83	8.07%
29,200	100	40%	1,772.40	911.00	2,683.40	1,914.76	985.00	2,899.76	8.06%
32,850	100	45%	1,981.55	911.00	2,892.55	2,140.70	985.00	3,125.70	8.06%
36,500	100	50%	2,190.69	911.00	3,101.69	2,366.63	985.00	3,351.63	8.06%
43,800	100	60%	2,608.98	911.00	3,519.98	2,818.50	985.00	3,803.50	8.05%
51,100	100	70%	3,027.27	911.00	3,938.27	3,270.37	985.00	4,255.37	8.05%
58,400	100	80%	3,445.56	911.00	4,356.56	3,722.24	985.00	4,707.24	8.05%
14,600	200	10%	935.82	1,822.00	2,757.82	1,011.02	1,970.00	2,981.02	8.09%
21,900	200	15%	1,354.11	1,822.00	3,176.11	1,462.89	1,970.00	3,432.89	8.08%
29,200	200	20%	1,772.40	1,822.00	3,594.40	1,914.76	1,970.00	3,884.76	8.08%
36,500	200	25%	2,190.69	1,822.00	4,012.69	2,366.63	1,970.00	4,336.63	8.07%
43,800	200	30%	2,608.98	1,822.00	4,430.98	2,818.50	1,970.00	4,788.50	8.07%
51,100	200	35%	3,027.27	1,822.00	4,849.27	3,270.37	1,970.00	5,240.37	8.07%
58,400	200	40%	3,445.56	1,822.00	5,267.56	3,722.24	1,970.00	5,692.24	8.06%
65,700	200	45%	3,863.85	1,822.00	5,685.85	4,174.11	1,970.00	6,144.11	8.06%
73,000	200	50%	4,282.14	1,822.00	6,104.14	4,625.98	1,970.00	6,595.98	8.06%
87,600	200	60%	5,118.72	1,822.00	6,940.72	5,529.72	1,970.00	7,499.72	8.05%
102,200	200	70%	5,955.30	1,822.00	7,777.30	6,433.46	1,970.00	8,403.46	8.05%
116,800	200	80%	6,791.88	1,822.00	8,613.88	7,337.20	1,970.00	9,307.20	8.05%
36,500	500	10%	2,190.69	4,555.00	6,745.69	2,366.63	4,925.00	7,291.63	8.09%
54,750	500	15%	3,236.42	4,555.00	7,791.42	3,496.31	4,925.00	8,421.31	8.08%
73,000	500	20%	4,282.14	4,555.00	8,837.14	4,625.98	4,925.00	9,550.98	8.08%
91,250	500	25%	5,327.87	4,555.00	9,882.87	5,755.66	4,925.00	10,680.66	8.07%
109,500	500	30%	6,373.59	4,555.00	10,928.59	6,885.33	4,925.00	11,810.33	8.07%
127,750	500	35%	7,419.32	4,555.00	11,974.32	8,015.01	4,925.00	12,940.01	8.06%
146,000	500	40%	8,465.04	4,555.00	13,020.04	9,144.68	4,925.00	14,069.68	8.06%
164,250	500	45%	9,510.77	4,555.00	14,065.77	10,274.36	4,925.00	15,199.36	8.06%
182,500	500	50%	10,556.49	4,555.00	15,111.49	11,404.03	4,925.00	16,329.03	8.06%
219,000	500	60%	12,647.94	4,555.00	17,202.94	13,663.38	4,925.00	18,588.38	8.05%
255,500	500	70%	14,739.39	4,555.00	19,294.39	15,922.73	4,925.00	20,847.73	8.05%
292,000	500	80%	16,830.84	4,555.00	21,385.84	18,182.08	4,925.00	23,107.08	8.05%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
 EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
 LARGE COMMERCIAL RATE 24 - SUMMER - PERMANENT RATE INCREASE

Tariff Advice No. 453-1

EXISTING THREE-PART RATE:	
ENERGY CHARGE, PER KWH	\$0.0573
CUSTOMER CHARGE (\$/MONTH)	\$99.24
DEMAND CHARGE, PER KW	\$9.11

PROPOSED THREE-PART RATE:	
ENERGY CHARGE, PER KWH	\$0.0619
CUSTOMER CHARGE (\$/MONTH)	\$107.28
DEMAND CHARGE, PER KW	\$9.85

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
73,000	1,000	10%	4,282.14	9,110.00	13,392.14	4,625.98	9,850.00	14,475.98	8.09%
109,500	1,000	15%	6,373.59	9,110.00	15,483.59	6,885.33	9,850.00	16,735.33	8.08%
146,000	1,000	20%	8,465.04	9,110.00	17,575.04	9,144.68	9,850.00	18,994.68	8.08%
182,500	1,000	25%	10,556.49	9,110.00	19,666.49	11,404.03	9,850.00	21,254.03	8.07%
219,000	1,000	30%	12,647.94	9,110.00	21,757.94	13,663.38	9,850.00	23,513.38	8.07%
255,500	1,000	35%	14,739.39	9,110.00	23,849.39	15,922.73	9,850.00	25,772.73	8.06%
292,000	1,000	40%	16,830.84	9,110.00	25,940.84	18,182.08	9,850.00	28,032.08	8.06%
328,500	1,000	45%	18,922.29	9,110.00	28,032.29	20,441.43	9,850.00	30,291.43	8.06%
365,000	1,000	50%	21,013.74	9,110.00	30,123.74	22,700.78	9,850.00	32,550.78	8.06%
438,000	1,000	60%	25,196.64	9,110.00	34,306.64	27,219.48	9,850.00	37,069.48	8.05%
511,000	1,000	70%	29,379.54	9,110.00	38,489.54	31,738.18	9,850.00	41,588.18	8.05%
584,000	1,000	80%	33,562.44	9,110.00	42,672.44	36,256.88	9,850.00	46,106.88	8.05%
146,000	2,000	10%	8,465.04	18,220.00	26,685.04	9,144.68	19,700.00	28,844.68	8.09%
219,000	2,000	15%	12,647.94	18,220.00	30,867.94	13,663.38	19,700.00	33,363.38	8.08%
292,000	2,000	20%	16,830.84	18,220.00	35,050.84	18,182.08	19,700.00	37,882.08	8.08%
365,000	2,000	25%	21,013.74	18,220.00	39,233.74	22,700.78	19,700.00	42,400.78	8.07%
438,000	2,000	30%	25,196.64	18,220.00	43,416.64	27,219.48	19,700.00	46,919.48	8.07%
511,000	2,000	35%	29,379.54	18,220.00	47,599.54	31,738.18	19,700.00	51,438.18	8.06%
584,000	2,000	40%	33,562.44	18,220.00	51,782.44	36,256.88	19,700.00	55,956.88	8.06%
657,000	2,000	45%	37,745.34	18,220.00	55,965.34	40,775.58	19,700.00	60,475.58	8.06%
730,000	2,000	50%	41,928.24	18,220.00	60,148.24	45,294.28	19,700.00	64,994.28	8.06%
876,000	2,000	60%	50,294.04	18,220.00	68,514.04	54,331.68	19,700.00	74,031.68	8.05%
1,022,000	2,000	70%	58,659.84	18,220.00	76,879.84	63,369.08	19,700.00	83,069.08	8.05%
1,168,000	2,000	80%	67,025.64	18,220.00	85,245.64	72,406.48	19,700.00	92,106.48	8.05%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
 EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
 LARGE COMMERCIAL RATE 24 - WINTER - INTERIM RATE INCREASE

Tariff Advice No. 453-1

EXISTING RATE:	
ENERGY CHARGE, PER KWH	\$0.0611
CUSTOMER CHARGE (\$/MONTH)	\$99.24
DEMAND CHARGE, PER KW	\$14.30

PROPOSED RATE:	
ENERGY CHARGE, PER KWH	\$0.0635
CUSTOMER CHARGE (\$/MONTH)	103.07
DEMAND CHARGE, PER KW	14.85

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
3,650	50	10%	322.26	715.00	1,037.26	334.85	742.50	1,077.35	3.87%
5,475	50	15%	433.76	715.00	1,148.76	450.73	742.50	1,193.23	3.87%
7,300	50	20%	545.27	715.00	1,260.27	566.62	742.50	1,309.12	3.88%
9,125	50	25%	656.78	715.00	1,371.78	682.51	742.50	1,425.01	3.88%
10,950	50	30%	768.29	715.00	1,483.29	798.40	742.50	1,540.90	3.88%
12,775	50	35%	879.79	715.00	1,594.79	914.28	742.50	1,656.78	3.89%
14,600	50	40%	991.30	715.00	1,706.30	1,030.17	742.50	1,772.67	3.89%
16,425	50	45%	1,102.81	715.00	1,817.81	1,146.06	742.50	1,888.56	3.89%
18,250	50	50%	1,214.32	715.00	1,929.32	1,261.95	742.50	2,004.45	3.89%
21,900	50	60%	1,437.33	715.00	2,152.33	1,493.72	742.50	2,236.22	3.90%
25,550	50	70%	1,660.35	715.00	2,375.35	1,725.50	742.50	2,468.00	3.90%
29,200	50	80%	1,883.36	715.00	2,598.36	1,957.27	742.50	2,699.77	3.90%
7,300	100	10%	545.27	1,430.00	1,975.27	566.62	1,485.00	2,051.62	3.87%
10,950	100	15%	768.29	1,430.00	2,198.29	798.40	1,485.00	2,283.40	3.87%
14,600	100	20%	991.30	1,430.00	2,421.30	1,030.17	1,485.00	2,515.17	3.88%
18,250	100	25%	1,214.32	1,430.00	2,644.32	1,261.95	1,485.00	2,746.95	3.88%
21,900	100	30%	1,437.33	1,430.00	2,867.33	1,493.72	1,485.00	2,978.72	3.88%
25,550	100	35%	1,660.35	1,430.00	3,090.35	1,725.50	1,485.00	3,210.50	3.89%
29,200	100	40%	1,883.36	1,430.00	3,313.36	1,957.27	1,485.00	3,442.27	3.89%
32,850	100	45%	2,106.38	1,430.00	3,536.38	2,189.05	1,485.00	3,674.05	3.89%
36,500	100	50%	2,329.39	1,430.00	3,759.39	2,420.82	1,485.00	3,905.82	3.90%
43,800	100	60%	2,775.42	1,430.00	4,205.42	2,884.37	1,485.00	4,369.37	3.90%
51,100	100	70%	3,221.45	1,430.00	4,651.45	3,347.92	1,485.00	4,832.92	3.90%
58,400	100	80%	3,667.48	1,430.00	5,097.48	3,811.47	1,485.00	5,296.47	3.90%
14,600	200	10%	991.30	2,860.00	3,851.30	1,030.17	2,970.00	4,000.17	3.87%
21,900	200	15%	1,437.33	2,860.00	4,297.33	1,493.72	2,970.00	4,463.72	3.87%
29,200	200	20%	1,883.36	2,860.00	4,743.36	1,957.27	2,970.00	4,927.27	3.88%
36,500	200	25%	2,329.39	2,860.00	5,189.39	2,420.82	2,970.00	5,390.82	3.88%
43,800	200	30%	2,775.42	2,860.00	5,635.42	2,884.37	2,970.00	5,854.37	3.89%
51,100	200	35%	3,221.45	2,860.00	6,081.45	3,347.92	2,970.00	6,317.92	3.89%
58,400	200	40%	3,667.48	2,860.00	6,527.48	3,811.47	2,970.00	6,781.47	3.89%
65,700	200	45%	4,113.51	2,860.00	6,973.51	4,275.02	2,970.00	7,245.02	3.89%
73,000	200	50%	4,559.54	2,860.00	7,419.54	4,738.57	2,970.00	7,708.57	3.90%
87,600	200	60%	5,451.60	2,860.00	8,311.60	5,665.67	2,970.00	8,635.67	3.90%
102,200	200	70%	6,343.66	2,860.00	9,203.66	6,592.77	2,970.00	9,562.77	3.90%
116,800	200	80%	7,235.72	2,860.00	10,095.72	7,519.87	2,970.00	10,489.87	3.90%
36,500	500	10%	2,329.39	7,150.00	9,479.39	2,420.82	7,425.00	9,845.82	3.87%
109,500	500	15%	6,789.69	7,150.00	13,939.69	7,056.32	7,425.00	14,481.32	3.89%
146,000	500	20%	9,019.84	7,150.00	16,169.84	9,374.07	7,425.00	16,799.07	3.89%
182,500	500	25%	11,249.99	7,150.00	18,399.99	11,691.82	7,425.00	19,116.82	3.90%
219,000	500	30%	13,480.14	7,150.00	20,630.14	14,009.57	7,425.00	21,434.57	3.90%
255,500	500	35%	15,710.29	7,150.00	22,860.29	16,327.32	7,425.00	23,752.32	3.90%
292,000	500	40%	17,940.44	7,150.00	25,090.44	18,645.07	7,425.00	26,070.07	3.90%
328,500	500	45%	20,170.59	7,150.00	27,320.59	20,962.82	7,425.00	28,387.82	3.91%
365,000	500	50%	22,400.74	7,150.00	29,550.74	23,280.57	7,425.00	30,705.57	3.91%
438,000	500	60%	26,861.04	7,150.00	34,011.04	27,916.07	7,425.00	35,341.07	3.91%
511,000	500	70%	31,321.34	7,150.00	38,471.34	32,551.57	7,425.00	39,976.57	3.91%
584,000	500	80%	35,781.64	7,150.00	42,931.64	37,187.07	7,425.00	44,612.07	3.91%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
 EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
 LARGE COMMERCIAL RATE 24 - WINTER - INTERIM RATE INCREASE

Tariff Advice No. 453-1

EXISTING RATE:	
ENERGY CHARGE, PER KWH	\$0.0611
CUSTOMER CHARGE (\$/MONTH)	\$99.24
DEMAND CHARGE, PER KW	\$14.30

PROPOSED RATE:	
ENERGY CHARGE, PER KWH	\$0.0635
CUSTOMER CHARGE (\$/MONTH)	103.07
DEMAND CHARGE, PER KW	14.85

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
73,000	1,000	10%	4,559.54	14,300.00	18,859.54	4,738.57	14,850.00	19,588.57	3.87%
109,500	1,000	15%	6,789.69	14,300.00	21,089.69	7,056.32	14,850.00	21,906.32	3.87%
146,000	1,000	20%	9,019.84	14,300.00	23,319.84	9,374.07	14,850.00	24,224.07	3.88%
182,500	1,000	25%	11,249.99	14,300.00	25,549.99	11,691.82	14,850.00	26,541.82	3.88%
219,000	1,000	30%	13,480.14	14,300.00	27,780.14	14,009.57	14,850.00	28,859.57	3.89%
255,500	1,000	35%	15,710.29	14,300.00	30,010.29	16,327.32	14,850.00	31,177.32	3.89%
292,000	1,000	40%	17,940.44	14,300.00	32,240.44	18,645.07	14,850.00	33,495.07	3.89%
328,500	1,000	45%	20,170.59	14,300.00	34,470.59	20,962.82	14,850.00	35,812.82	3.89%
365,000	1,000	50%	22,400.74	14,300.00	36,700.74	23,280.57	14,850.00	38,130.57	3.90%
438,000	1,000	60%	26,861.04	14,300.00	41,161.04	27,916.07	14,850.00	42,766.07	3.90%
511,000	1,000	70%	31,321.34	14,300.00	45,621.34	32,551.57	14,850.00	47,401.57	3.90%
584,000	1,000	80%	35,781.64	14,300.00	50,081.64	37,187.07	14,850.00	52,037.07	3.90%
73,000	2,000	10%	4,559.54	28,600.00	33,159.54	4,738.57	29,700.00	34,438.57	3.86%
109,500	2,000	15%	6,789.69	28,600.00	35,389.69	7,056.32	29,700.00	36,756.32	3.86%
146,000	2,000	20%	9,019.84	28,600.00	37,619.84	9,374.07	29,700.00	39,074.07	3.87%
182,500	2,000	25%	11,249.99	28,600.00	39,849.99	11,691.82	29,700.00	41,391.82	3.87%
219,000	2,000	30%	13,480.14	28,600.00	42,080.14	14,009.57	29,700.00	43,709.57	3.87%
255,500	2,000	35%	15,710.29	28,600.00	44,310.29	16,327.32	29,700.00	46,027.32	3.88%
292,000	2,000	40%	17,940.44	28,600.00	46,540.44	18,645.07	29,700.00	48,345.07	3.88%
328,500	2,000	45%	20,170.59	28,600.00	48,770.59	20,962.82	29,700.00	50,662.82	3.88%
365,000	2,000	50%	22,400.74	28,600.00	51,000.74	23,280.57	29,700.00	52,980.57	3.88%
438,000	2,000	60%	26,861.04	28,600.00	55,461.04	27,916.07	29,700.00	57,616.07	3.89%
511,000	2,000	70%	31,321.34	28,600.00	59,921.34	32,551.57	29,700.00	62,251.57	3.89%
584,000	2,000	80%	35,781.64	28,600.00	64,381.64	37,187.07	29,700.00	66,887.07	3.89%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
 EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
 LARGE COMMERCIAL RATE 24 - SUMMER - INTERIM RATE INCREASE

Tariff Advice No. 453-1

EXISTING THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0573
CUSTOMER CHARGE (\$/MONTH)	\$99.24
DEMAND CHARGE, PER KW	\$9.11

PROPOSED THREE-PART RATE:

ENERGY CHARGE, PER KWH	\$0.0595
CUSTOMER CHARGE (\$/MONTH)	103.07
DEMAND CHARGE, PER KW	9.46

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
3,650	50	10%	308.39	455.50	763.89	320.25	473.00	793.25	3.84%
5,475	50	15%	412.96	455.50	868.46	428.83	473.00	901.83	3.84%
7,300	50	20%	517.53	455.50	973.03	537.42	473.00	1,010.42	3.84%
9,125	50	25%	622.10	455.50	1,077.60	646.01	473.00	1,119.01	3.84%
10,950	50	30%	726.68	455.50	1,182.18	754.60	473.00	1,227.60	3.84%
12,775	50	35%	831.25	455.50	1,286.75	863.18	473.00	1,336.18	3.84%
14,600	50	40%	935.82	455.50	1,391.32	971.77	473.00	1,444.77	3.84%
16,425	50	45%	1,040.39	455.50	1,495.89	1,080.36	473.00	1,553.36	3.84%
18,250	50	50%	1,144.97	455.50	1,600.47	1,188.95	473.00	1,661.95	3.84%
21,900	50	60%	1,354.11	455.50	1,809.61	1,406.12	473.00	1,879.12	3.84%
25,550	50	70%	1,563.26	455.50	2,018.76	1,623.30	473.00	2,096.30	3.84%
29,200	50	80%	1,772.40	455.50	2,227.90	1,840.47	473.00	2,313.47	3.84%
7,300	100	10%	517.53	911.00	1,428.53	537.42	946.00	1,483.42	3.84%
10,950	100	15%	726.68	911.00	1,637.68	754.60	946.00	1,700.60	3.84%
14,600	100	20%	935.82	911.00	1,846.82	971.77	946.00	1,917.77	3.84%
18,250	100	25%	1,144.97	911.00	2,055.97	1,188.95	946.00	2,134.95	3.84%
21,900	100	30%	1,354.11	911.00	2,265.11	1,406.12	946.00	2,352.12	3.84%
25,550	100	35%	1,563.26	911.00	2,474.26	1,623.30	946.00	2,569.30	3.84%
29,200	100	40%	1,772.40	911.00	2,683.40	1,840.47	946.00	2,786.47	3.84%
32,850	100	45%	1,981.55	911.00	2,892.55	2,057.65	946.00	3,003.65	3.84%
36,500	100	50%	2,190.69	911.00	3,101.69	2,274.82	946.00	3,220.82	3.84%
43,800	100	60%	2,608.98	911.00	3,519.98	2,709.17	946.00	3,655.17	3.84%
51,100	100	70%	3,027.27	911.00	3,938.27	3,143.52	946.00	4,089.52	3.84%
58,400	100	80%	3,445.56	911.00	4,356.56	3,577.87	946.00	4,523.87	3.84%
14,600	200	10%	935.82	1,822.00	2,757.82	971.77	1,892.00	2,863.77	3.84%
21,900	200	15%	1,354.11	1,822.00	3,176.11	1,406.12	1,892.00	3,298.12	3.84%
29,200	200	20%	1,772.40	1,822.00	3,594.40	1,840.47	1,892.00	3,732.47	3.84%
36,500	200	25%	2,190.69	1,822.00	4,012.69	2,274.82	1,892.00	4,166.82	3.84%
43,800	200	30%	2,608.98	1,822.00	4,430.98	2,709.17	1,892.00	4,601.17	3.84%
51,100	200	35%	3,027.27	1,822.00	4,849.27	3,143.52	1,892.00	5,035.52	3.84%
58,400	200	40%	3,445.56	1,822.00	5,267.56	3,577.87	1,892.00	5,469.87	3.84%
65,700	200	45%	3,863.85	1,822.00	5,685.85	4,012.22	1,892.00	5,904.22	3.84%
73,000	200	50%	4,282.14	1,822.00	6,104.14	4,446.57	1,892.00	6,338.57	3.84%
87,600	200	60%	5,118.72	1,822.00	6,940.72	5,315.27	1,892.00	7,207.27	3.84%
102,200	200	70%	5,955.30	1,822.00	7,777.30	6,183.97	1,892.00	8,075.97	3.84%
116,800	200	80%	6,791.88	1,822.00	8,613.88	7,052.67	1,892.00	8,944.67	3.84%
36,500	500	10%	2,190.69	4,555.00	6,745.69	2,274.82	4,730.00	7,004.82	3.84%
54,750	500	15%	3,236.42	4,555.00	7,791.42	3,360.70	4,730.00	8,090.70	3.84%
73,000	500	20%	4,282.14	4,555.00	8,837.14	4,446.57	4,730.00	9,176.57	3.84%
91,250	500	25%	5,327.87	4,555.00	9,882.87	5,532.45	4,730.00	10,262.45	3.84%
109,500	500	30%	6,373.59	4,555.00	10,928.59	6,618.32	4,730.00	11,348.32	3.84%
127,750	500	35%	7,419.32	4,555.00	11,974.32	7,704.20	4,730.00	12,434.20	3.84%
146,000	500	40%	8,465.04	4,555.00	13,020.04	8,790.07	4,730.00	13,520.07	3.84%
164,250	500	45%	9,510.77	4,555.00	14,065.77	9,875.95	4,730.00	14,605.95	3.84%
182,500	500	50%	10,556.49	4,555.00	15,111.49	10,961.82	4,730.00	15,691.82	3.84%
219,000	500	60%	12,647.94	4,555.00	17,202.94	13,133.57	4,730.00	17,863.57	3.84%
255,500	500	70%	14,739.39	4,555.00	19,294.39	15,305.32	4,730.00	20,035.32	3.84%
292,000	500	80%	16,830.84	4,555.00	21,385.84	17,477.07	4,730.00	22,207.07	3.84%

ALASKA ELECTRIC LIGHT AND POWER COMPANY
 EXISTING THREE-PART RATE VS. PROPOSED THREE-PART RATE
 LARGE COMMERCIAL RATE 24 - SUMMER - INTERIM RATE INCREASE

Tariff Advice No. 453-1

EXISTING THREE-PART RATE:	
ENERGY CHARGE, PER KWH	\$0.0573
CUSTOMER CHARGE (\$/MONTH)	\$99.24
DEMAND CHARGE, PER KW	\$9.11

PROPOSED THREE-PART RATE:	
ENERGY CHARGE, PER KWH	\$0.0595
CUSTOMER CHARGE (\$/MONTH)	103.07
DEMAND CHARGE, PER KW	9.46

ENERGY CONSUMPTION (KWH)	DEMAND (KW)	LOAD FACTOR (%)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	CUSTOMER & ENERGY (\$)	DEMAND (\$)	TOTAL (\$)	INCREASE (%)
73,000	1,000	10%	4,282.14	9,110.00	13,392.14	4,446.57	9,460.00	13,906.57	3.84%
109,500	1,000	15%	6,373.59	9,110.00	15,483.59	6,618.32	9,460.00	16,078.32	3.84%
146,000	1,000	20%	8,465.04	9,110.00	17,575.04	8,790.07	9,460.00	18,250.07	3.84%
182,500	1,000	25%	10,556.49	9,110.00	19,666.49	10,961.82	9,460.00	20,421.82	3.84%
219,000	1,000	30%	12,647.94	9,110.00	21,757.94	13,133.57	9,460.00	22,593.57	3.84%
255,500	1,000	35%	14,739.39	9,110.00	23,849.39	15,305.32	9,460.00	24,765.32	3.84%
292,000	1,000	40%	16,830.84	9,110.00	25,940.84	17,477.07	9,460.00	26,937.07	3.84%
328,500	1,000	45%	18,922.29	9,110.00	28,032.29	19,648.82	9,460.00	29,108.82	3.84%
365,000	1,000	50%	21,013.74	9,110.00	30,123.74	21,820.57	9,460.00	31,280.57	3.84%
438,000	1,000	60%	25,196.64	9,110.00	34,306.64	26,164.07	9,460.00	35,624.07	3.84%
511,000	1,000	70%	29,379.54	9,110.00	38,489.54	30,507.57	9,460.00	39,967.57	3.84%
584,000	1,000	80%	33,562.44	9,110.00	42,672.44	34,851.07	9,460.00	44,311.07	3.84%
146,000	2,000	10%	8,465.04	18,220.00	26,685.04	8,790.07	18,920.00	27,710.07	3.84%
219,000	2,000	15%	12,647.94	18,220.00	30,867.94	13,133.57	18,920.00	32,053.57	3.84%
292,000	2,000	20%	16,830.84	18,220.00	35,050.84	17,477.07	18,920.00	36,397.07	3.84%
365,000	2,000	25%	21,013.74	18,220.00	39,233.74	21,820.57	18,920.00	40,740.57	3.84%
438,000	2,000	30%	25,196.64	18,220.00	43,416.64	26,164.07	18,920.00	45,084.07	3.84%
511,000	2,000	35%	29,379.54	18,220.00	47,599.54	30,507.57	18,920.00	49,427.57	3.84%
584,000	2,000	40%	33,562.44	18,220.00	51,782.44	34,851.07	18,920.00	53,771.07	3.84%
657,000	2,000	45%	37,745.34	18,220.00	55,965.34	39,194.57	18,920.00	58,114.57	3.84%
730,000	2,000	50%	41,928.24	18,220.00	60,148.24	43,538.07	18,920.00	62,458.07	3.84%
876,000	2,000	60%	50,294.04	18,220.00	68,514.04	52,225.07	18,920.00	71,145.07	3.84%
1,022,000	2,000	70%	58,659.84	18,220.00	76,879.84	60,912.07	18,920.00	79,832.07	3.84%
1,168,000	2,000	80%	67,025.64	18,220.00	85,245.64	69,599.07	18,920.00	88,519.07	3.84%

REGULATORY COMMISSION OF ALASKA
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**ALASKA ELECTRIC LIGHT AND POWER COMPANY
COST OF SERVICE AND RATE ANALYSES**

COST OF SERVICE STUDY—PEAK RESPONSIBILITY METHOD

ALASKA ELECTRIC LIGHT AND POWER COMPANY
COST-OF-SERVICE STUDY: Coincident Peak Method
2015 TEST YEAR

TEST YEAR 2015

Line No	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 1 - SUMMARY OF OPERATING REVENUE, RATE BASE, AND REVENUE REQUIREMENTS							
1							
2							
3	CURRENT OPERATING REVENUES						
4	Revenues from Firm Sales	SCHEDULE 2	34,351,132	17,149,188	6,129,054	10,811,023	261,867
5	Other Operating Revenues	SCHEDULE 2	10,229,820	4,694,627	1,775,446	3,727,749	31,997
6							
7	TOTAL OPERATING REVENUES		44,580,951	21,843,815	7,904,500	14,538,772	293,864
8							
9	RATE BASE	SCHEDULE 9	123,036,902	60,593,454	20,938,527	41,033,984	470,936
10							
11	REVENUE REQUIREMENT						
12	Operation & Maint. Exp.	SCHEDULE 3	21,830,613	11,004,554	3,670,998	6,947,649	207,412
13	Depreciation Exp.	SCHEDULE 4	5,477,784	2,831,081	915,500	1,704,563	26,640
14	Taxes Other than Income Tax	SCHEDULE 5	1,061,396	525,127	180,380	351,977	3,912
15	Return on Rate Base	9.98% RATE BASE	12,279,083	6,047,227	2,089,665	4,095,192	46,999
16	Income Tax	RATE BASE	6,716,059	3,307,538	1,142,945	2,239,870	25,706
17	Total	SUM ROWS 12-16	47,364,934	23,715,527	7,999,488	15,339,249	310,669
18							
19	REVENUE REQUIREMENT FROM FIRM SALES						
20	Total Revenue Requirement	ROW 17	47,364,934	23,715,527	7,999,488	15,339,249	310,669
21	Less: Other Operating Revenues	SCHEDULE 2	10,229,820	4,694,627	1,775,446	3,727,749	31,997
22	Total Revenue Required from Firm Sales	ROW 20 - ROW 21	37,135,114	19,020,899	6,224,042	11,611,500	278,672
23							
24	FIRM REVENUES AT EXISTING RATES	SCHEDULE 2	34,351,132	17,149,188	6,129,054	10,811,023	261,867
25	REVENUE REQ. DIFFERENCE FROM REVENUES						
26	Dollar Amount	ROW 22 - ROW24	2,783,982	1,871,712	94,988	800,477	16,805
27	Percentage	ROW 26 / ROW24	8.10%	10.91%	1.55%	7.40%	6.42%
28							
29	REVENUE WITH ACROSS-THE-BOARD INCREASE						
30	Dollar Amount		37,133,578	18,538,272	6,625,508	11,686,720	283,078
31	Ratio to Revenue Requirement		1.000	0.975	1.065	1.006	1.016

**ALASKA ELECTRIC LIGHT AND POWER COMPANY
COST OF SERVICE AND RATE ANALYSES**

AELP COST OF SERVICE STUDY—AVERAGE & EXCESS METHOD

TA 453-1
Cost of Service Study

ALASKA ELECTRIC LIGHT AND POWER COMPANY
COST-OF-SERVICE STUDY: AVERAGE EXCESS METHOD
2015 TEST YEAR

TEST YEAR 2015							
Line No	Description	Allocation Basis	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Lighting Rate 46
SCHEDULE 1 - SUMMARY OF OPERATING REVENUE, RATE BASE, AND REVENUE REQUIREMENTS							
1							
2							
3	CURRENT OPERATING REVENUES						
4	Revenues from Firm Sales	SCHEDULE 2	34,351,132	17,149,188	6,129,054	10,811,023	261,867
5	Other Operating Revenues	SCHEDULE 2	10,229,820	4,694,626	1,775,446	3,727,751	31,997
6							
7	TOTAL OPERATING REVENUES		44,580,951	21,843,813	7,904,500	14,538,774	293,864
8							
9	RATE BASE	SCHEDULE 9	123,036,902	59,822,862	20,860,193	41,892,975	460,871
10							
11	REVENUE REQUIREMENT						
12	Operation & Maint. Exp.	SCHEDULE 3	21,830,613	10,951,907	3,665,625	7,006,358	206,722
13	Depreciation Exp.	SCHEDULE 4	5,477,784	2,793,599	911,690	1,746,344	26,150
14	Taxes Other than Income Tax	SCHEDULE 5	1,061,396	518,218	179,678	359,678	3,822
15	Return on Rate Base	9.98% RATE BASE	12,279,083	5,970,322	2,081,847	4,180,919	45,995
16	Income Tax	RATE BASE	6,716,059	3,265,474	1,138,669	2,286,758	25,157
17	Total	SUM ROWS 12-16	47,364,934	23,499,521	7,977,509	15,580,058	307,846
18							
19	REVENUE REQUIREMENT FROM FIRM SALES						
20	Total Revenue Requirement	ROW 17	47,364,934	23,499,521	7,977,509	15,580,058	307,846
21	Less: Other Operating Revenues	SCHEDULE 2	10,229,820	4,694,626	1,775,446	3,727,751	31,997
22	Total Revenue Required from Firm Sales	ROW 20 - ROW 21	37,135,114	18,804,895	6,202,063	11,852,307	275,849
23							
24	FIRM REVENUES AT EXISTING RATES	SCHEDULE 2	34,351,132	17,149,188	6,129,054	10,811,023	261,867
25	REVENUE REQ. DIFFERENCE FROM REVENUES						
26	Dollar Amount	ROW 22 - ROW 24	2,783,982	1,655,707	73,009	1,041,284	13,982
27	Percentage	ROW 26 / ROW 24	8.10%	9.65%	1.19%	9.63%	5.34%
28							
29	REVENUE WITH ACROSS-THE-BOARD INCREASE						
30	Dollar Amount		37,133,578	18,538,272	6,625,508	11,686,720	283,078
31	Ratio to Revenue Requirement		1.000	0.986	1.068	0.986	1.026

**ALASKA ELECTRIC LIGHT AND POWER COMPANY
COST OF SERVICE AND RATE ANALYSES**

COMPARISON OF RESULTS OF ALTERNATIVE COST OF SERVICE ANALYSES

**ALASKA ELECTRIC LIGHT AND POWER COMPANY
COMPARISON OF REVENUES AND REVENUE REQUIREMENTS
FOR ALTERNATE COST-OF-SERVICE METHODS**

REVENUE AND REVENUE REQUIREMENT CATEGORIES	System Total	Residential Rate 10	Sm. Comm. Rate 20	Lrg. Comm. Rate 24	Street Lts Rate 46
SALES REVENUES AT EXISTING FIRM RATES	34,351,132	17,149,188	6,129,054	10,811,023	261,867
SALES REVENUES AT PROPOSED FIRM RATES	37,133,578	18,538,272	6,625,508	11,686,720	283,078

COST-OF-SERVICE RESULTS:

1. AELP METHOD:

REVENUE REQUIREMENT FROM FIRM SALES*	37,135,114	18,954,421	6,229,644	11,671,973	279,075
RATIO OF PROPOSED RATES TO CALCULATED REVENUE REQUIREMENTS	1.000	0.978	1.064	1.001	1.014

2. PEAK DEMAND RESPONSIBILITY METHOD:

REVENUE REQUIREMENT FROM FIRM SALES**	37,135,114	19,020,899	6,224,042	11,611,500	278,672
RATIO OF PROPOSED RATES TO CALCULATED REVENUE REQUIREMENTS	1.000	0.975	1.065	1.006	1.016

3. AVERAGE AND EXCESS DEMAND RESPONSIBILITY METHOD:

REVENUE REQUIREMENT FROM FIRM SALES***	37,135,114	18,804,895	6,202,063	11,852,307	275,849
RATIO OF PROPOSED RATES TO CALCULATED REVENUE REQUIREMENTS	1.000	0.986	1.068	0.986	1.026

* Source: Line 22 of the Summary Results (Schedule 1) of the AELP Cost of Service Study.

** Source: Line 22 of the Summary Results (Schedule 1) of Cost of Service Study: Coincident Peak Method

*** Source: Line 22 of the Summary Results (Schedule 1) of Cost of Service Study: Average and Excess Method