

Canceling

Alaska Electric Light and Power Company

State of Alaska  
Public Utilities Commission

RULES AND REGULATIONS

7. Extension of Facilities

7.1 Line Extension Policy

The Company will design and construct extensions of its distribution facilities, within its authorized service area, under the terms and conditions set forth in Sections 6 and 7.2 through 7.11. Alternatively, an applicant for service may design and construct extensions to the Company's distribution facilities under the terms and conditions set forth in Sections 6, 7.12 and 7.13.

Line extension agreements signed prior to February 1, 1989, and facilities built prior to February 1, 1989, including customer owned facilities, are exempt from the provisions of Section 7.

Sections 7.14 through 7.23 are applicable to all facilities, unless otherwise noted.

7.2 Company Procedures for Extension of Facilities

The Company will design and construct extensions of facilities when requested, upon receipt of the following:

- (a) Completed application form for line extension signed by the applicant.
- (b) For subdivisions and trailer parks, the applicant shall pay an advance for engineering work of \$75 per lot or \$500, whichever is greater. For other extensions, one (1) construction cost estimate will be provided at no cost to the applicant. All applicants will be [continued on sheet 42]

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By \_\_\_\_\_ Title General Manager

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required to pay an advance of \$100 for each additional construction cost estimate.

All advances received by the Company in payment of construction cost estimates will be incorporated into and considered part of the overall advances made and as part of the project cost. All advances received for projects in which construction has not commenced within one (1) year of receipt of the advance will be retained and will not be subject to refund to the developer/applicant. If projects are canceled within one (1) year of receipt of the advance, the amount to be refunded shall be limited to the amount of the advance less actual cost incurred by the Company.

(c) Recorded plat showing the following:

- (1) Location of existing and future water and sewer lines.
- (2) Existing and final grade of all areas in which electrical facilities are intended to be installed.
- (3) Any information which may be required to obtain permits necessary for the extension of facilities.
- (4) In the case of subdivisions and trailer parks, the plat must show all lots to be served.

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(d) Electrical load characteristics necessary to design the facility extension.

7.3 Design Procedures for Extension of Distribution Facilities

Upon receipt of a request and payment of any required engineering advances for the extension of distribution facility, the Company will prepare a preliminary design, cost estimate and right-of-way request within a 30 day period.

The Company will provide underground extensions of facilities wherever required by local ordinance. In other areas, underground service from an overhead system will be provided on request unless, in the opinion of the Company, construction or maintenance is not feasible for technical or operational reasons.

Upon completion of the preliminary design, cost estimate and right-of-way request, the Company will meet with the applicant to review the preliminary cost estimate, design and right-of-way request.

(a) If the applicant approves the preliminary design, cost estimate and right-of-way request, the applicant will sign and date the preliminary design drawing and cost estimate and the project will be released for right-of-way acquisition and then final design.

(b) If the applicant does not approve the preliminary design, the Company and the applicant will attempt to resolve any problems. If a new design is required, a new cost estimate

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and right-of-way request may be required, with subsequent delays.

7.4. Construction Initiation Procedures for Extension of Distribution Facilities

No line construction or clearing of right-of-way shall be initiated under this policy until the following has been completed:

- (a) All required advances, contributions, easements, permits, line extension agreements, and related documents must have been received by the Company, properly signed and executed. The Company may refuse service to an applicant unless the applicant grants necessary specific easements and right-of-way. The Company will not require a blanket easement.
- (b) Roads and platted easements must be to approximate final sub-grade and without man-made obstructions. Backbone sewer systems, water systems and other utility systems, normally installed at depths greater than electrical facilities, must first be installed.
- (c) All required survey control must be in and marked.

7.5 Construction Procedures for Extension of Distribution Facilities

After the completion of design and engineering, the Company will then schedule construction, at its

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discretion, by independent contractors or by the Company's employees as set forth below.

(a) Construction by Independent Contractors

When construction will be done by an independent contractor, bids will be solicited for labor and equipment only, and the applicant shall be informed of the bid date. The Company will award the contract to the lowest qualified responsive bidder as determined by the Company. The Company will add the cost of materials, engineering and any easement costs, plus a 5% overhead charge to bid amounts, materials, and engineering. Bids are only binding for 60 days from the bid due date and notice to proceed must be given to the bidder within this period. If the Company is required, through no fault of its own, to re-bid a project, the applicant will be assessed a \$200 re-bid fee as a contribution-in-aid of construction.

(b) Construction by Company Employees

When construction will be done by Company employees, the estimated cost will include the estimated materials, construction labor, equipment and engineering costs, any easement costs, plus a 5% overhead charge. Construction estimates are binding for 60 days from the date of the estimate and notice to proceed must be given to the Company within this period. If the Company is required, through no fault of its own, to re-estimate a project the applicant will be assessed a \$100 re-estimate fee as a [continued on sheet 46]

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contribution-in-aid of construction.

The Company will complete the applicant's extension of facilities according to the terms of Section 6.2.

7.6 Cost of Extension of Distribution Facilities

(a) Applicable to all Facility Extensions

- (1) The Company's standard service is based on overhead construction. Therefore, all references to the Company portion of a line extension reflect the historical average cost of providing equivalent overhead facilities.
- (2) Subject to the provisions of this tariff, any applicant requesting a line extension or service connection must pay as an advance-in-aid of construction and/or contribution-in-aid of construction, prior to construction, all costs which exceed the amount for which the Company is responsible under this section.
- (3) In the case of underground facilities, the applicant will be required to make a contribution-in-aid of construction equal to the difference between the cost of constructing the underground system and the cost of construction a comparable overhead system.
- (4) In no instance will the applicant's advance-in-aid and/or contribution-in-aid

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be greater than that required to provide a line extension to serve the applicant exclusively.

(5) Each line extension and service connection agreement requiring payment by an applicant will be in writing. It will include the Company's cost estimate of the applicant's share of the costs, the terms and conditions of payment, and the estimated date of completion of the work. The agreement must be signed by the Company and by the applicant or the applicant's authorized representative.

(6) Normally, the applicant will be responsible for payment of actual costs of construction. However, to the extent the actual costs of construction of a line extension or service connection exceeds by more than 10% the written estimate provided by the Company, no charges in excess of the written estimate plus ten percent will be collected by the Company. If the actual costs of construction are less than the written estimate, the difference between the actual cost of the construction and the advance or contribution payment made by the applicant will be refunded to the applicant. Where the difference between estimated and actual costs exceed the amount originally paid, the applicant will pay the remaining advance or contribution prior to being provided service.

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(7) The Company will require advanced payment and charge as a contribution-in-aid of construction or as an advance-in-aid of construction, consistent with other provisions in the tariff, for additional construction work requested or caused by the applicant subsequent to the preparation of the initial written estimate.

(b) Applicable to Applicants Required to Pay Advances-in-aid of Construction

- (1) All advances-in-aid to construction made reference to this tariff will be non-interest bearing.
- (2) When a subsequent applicant is required to make advances to share in the costs of an earlier line extension to which he is connecting, those advances will be refunded to the earlier applicant(s) who previously advanced funds for that earlier line extension.
- (3) The Company shall make all reasonable attempts to inform customers when a refund is due.
- (4) The applicant is responsible to keep the Company informed of the applicant's current address.
- (5) All advances-in-aid of construction payments made by the applicant which have not been refunded within a period of (5) [continued]

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years from the date construction is completed will become the property of the Company and will no longer be refundable.

- (6) The Company will prepare an annual report which details the number of permanent service connections which have been made to the original distribution facility extension. This report will be prepared by October 31st, for the five years following the completion of the extension. For refund purposes, the report will cover completed line extensions up to their anniversary date within the year of the report. Any applicant who has paid the Company an advance-in-aid of construction may request a copy of this report.
- (7) Any refund due because of new service connections will be paid by December 31, following issuance of the annual report.
- (8) In no case will the amount of the refund exceed the amount originally advanced.

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7.7 Residential Subdivision and Trailer Park Distribution Facilities

(a) Costs

This section applies to developers of residential subdivisions and trailer parks. The extension shall include all construction required to provide power to a corner of each lot within the subdivision or trailer park, including, but not limited to distribution transformers, service pedestals, and necessary primary and secondary conductors. For treatment of facilities from the lot corner to the residence, see Section 7.8(a)(1).

The Company will pay the cost of an overhead distribution facility extension, to lot corners, constructed by it or under its control up to \$1,000 per lot. In the case of zero-lot line construction the Company will pay the cost of an overhead distribution facility extension, up to \$1,000 per planned permanent connection.

Subject to the provisions of Section 7.6(a)(6), the applicant will be required to pay the Company portion as an advance-in-aid of construction; also, the applicant will pay as a contribution-in-aid of construction any estimated costs in excess of the Company portion. In the case of underground facilities, the applicant will also be required to make a contribution-in-aid of construction equal to the difference between the estimated cost of con-

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structing the underground system and the cost of constructing a comparable overhead system.

Example:

The applicant's subdivision or trailer park is planned to provide underground service for 20 lots. Overhead service to the lot corners will cost \$18,000. With underground service, the development will cost \$40,000. The Company's contribution would be \$900/lot or \$18,000. The applicant will pay the Company portion or \$18,000 as an advance-in-aid of construction. The applicant will pay the remaining difference between the cost of overhead and underground construction as a contribution-in-aid of construction. This is \$22,000. The total amount subject to potential refund is \$18,000.

(b) Subsequent Connections

The original cost of the line extension is not shared with subsequent applicants. A waiver to this provision may be granted for instances where joint use is anticipated and cost sharing will benefit all potentially interested parties. The waiver must be approved by the Alaska Public Utilities Commission. A waiver must be requested by the applicant prior to completing the required agreements, and cost estimates will reflect both cost sharing and sole responsibility for costs. If construction is to commence pending A.P.U.C. approval of cost sharing, the applicant must agree to assume sole responsibility for costs.

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(c) Refunds

- (1) Once a year, a refund of the advance-in-aid of construction for a subdivision will be made to the applicant equal to the lesser of a) \$1,000 per permanent service connected to the extension, or b) the prorated actual cost of overhead construction of the facilities to serve to each lot corner times the number of permanent services connected to the line extension.

For the purpose of calculating the refund, if the estimated number of permanent customers will exceed the number of lots, as would be the case with zero-lot line construction, the refund will be calculated based on the estimated number of permanent customers. In either case the number will be determined by the Company at the time the advance-in-aid of construction is made by the applicant and will be specified in the applicant's written agreement.

- (2) Annual refunding of the advance-in-aid of construction for a trailer park will occur for a give lot given one year's continuous service for that lot. Continuous service means minimum monthly usage of 100 kWh. The refund will be made to the applicant equal to the lesser of a) \$1,000 per service connected to the extension, or b) the prorated actual cost of overhead con-  
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struction of the facilities to serve to each lot corner times the number of services connected to the line extension.

Example:

A 20 lot subdivision or trailer park was constructed. The Company contribution was \$900/lot or \$18,000. This was paid as an advance-in-aid of construction and is subject to refund. The prorated amount of the refund per lot will be \$900. If the annual report shows the connection of 5 new permanent services within a subdivision or 5 new trailer park lots show continuous usage during the last year, the amount of refund due the applicant would be \$900/lot times 5 or \$4,500.

7.8 Residential and Small Commercial Service

(a) Costs

When a new applicant is to be served from a previously constructed line extension within a five year period from the date the original line was completed, previously paid advance-in-aid of construction must be recalculated. In these recalculations, the general principle to be applied is that each customer should have an equal investment in commonly used facilities. In applying this principle, each customer should only share in the costs of those facilities actually used.

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- (1) If power is presently available to the lot corner and the applicant is not connecting to a line extension in which the applicant must share in the cost of the extension:

The Company will pay the cost of an overhead secondary service constructed by it or under its control up to \$1,000 per permanent connection. Subject to the provisions of Section 7.6(a)(6), all estimated costs in excess of the Company portion will be paid by the applicant prior to construction as a contribution-in-aid of construction. For single services, if underground service is requested, the Company will treat a suitable trench provided by the applicant as a contribution-in-aid of construction equal to the additional cost of underground service. For multiple unit services, the applicant may provide the facilities trench which is on the applicant's property as a credit toward the required contribution-in-aid of construction.

- (2) If power is presently available to the lot corner and the applicant is attaching to a line extension in which the applicant must share in the cost of the extension:

The Company will pay the cost of an overhead secondary service constructed by it or under its control up to \$1,000 per permanent connection. Subject to the provisions of Section 7.6(a)(6), all

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estimated costs in excess of the Company portion will be paid by the applicant prior to construction as a contribution-in-aid of construction. For single services, if underground service is requested, the Company will treat a suitable trench provided by the applicant as a contribution-in-aid of construction equal to the additional cost of underground service. For multiple unit services, the applicant may provide the facilities trench which is on the applicant's property as a credit toward the required contribution-in-aid of construction.

The Company will also pay the applicant's share of the costs of the original extension, up to \$1,000 per permanent connection. This Company paid amount will be refunded to the earlier applicant(s) who have already shared in the cost of the original extension. Subject to the provisions of Section 7.6(a)(6), any cost sharing advances for the earlier extension required from the new applicant in excess of the Company portion will be paid by the applicant prior to construction as an advance-in-aid of construction.

- (3) If power is presently not available to the lot corner:

The Company will pay the cost of an overhead distribution facility extension constructed by it or under its control up [continued]

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to \$2,000 per permanent connection. Subject to the provisions of Section 7.6(a)(6), all estimated costs in excess of the Company portion will be paid by the applicant prior to construction as an advance-in-aid of construction.

If the applicant is directly connecting to a line extension which is less than 5 years old, the applicant is required to pay a portion of the original cost of the earlier extension according to where the applicant is connecting and the number of customers already sharing the section with the applicant.

The Company contribution will apply to the cost of construction according to the following order:

- (i) To the cost of the facilities dedicated to the applicant which do not have the capability of providing service to future applicants, i.e., the facilities on the applicant's private property. The remaining cost of these facilities, if any, will be paid by the applicant as a contribution-in-aid of construction.
- (ii) If any Company contribution remains, it will be subtracted from the cost of facilities constructed for the applicant which also have the capability of providing service to future ap-

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plicants, i.e. primary facilities along a public right-of-way. The remaining costs of these facilities, if any, must then be paid by the applicant as an advance-in-aid of construction.

(iii) If any Company contribution remains, it will then be applied to unrefunded advances associated with the shared section of the line extension.

If underground service is requested, the applicant will also be required to make a contribution-in-aid of construction equal to the difference between the estimated cost of constructing the underground system and the cost of constructing a comparable overhead system. For single services, the Company will treat suitable trench provided by the applicant as the contribution-in-aid of construction equal to the additional cost of underground service. This credit will be available for only the portion of the trench which is on the applicant's own property. For multiple unit services, the applicant may provide the facilities trench which is on the applicant's property as a credit toward the required contribution-in-aid of construction.

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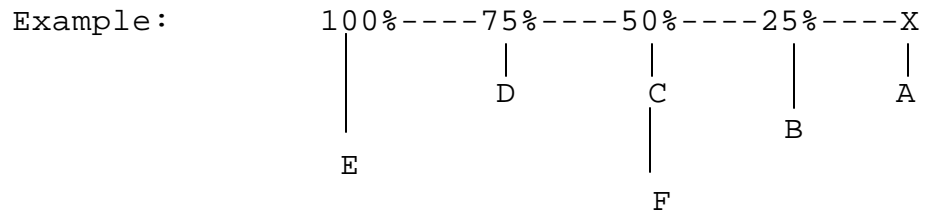
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(c) Costs and Refunds Due to Subsequent Connections to a Residential or Small Commercial Distribution Facility

Any previously paid advances-in-aid of construction for a completed line extension must be recalculated when additional applicants are served from a previously constructed line extension within a five year period from the date the original line was completed. The original line is limited to the line that the new applicant will be attaching to.



In the beginning, the Company's facilities end at point A. At that point, a line extension facility is built for Evan from A to E. Evan's secondary service connection costs \$1,000. The new primary facilities constructed to serve Evan cost an additional \$9,000 (or \$2,500 per section). The Company pays a total of \$2,000 toward these costs: \$1,000 is applied to the cost of the secondary service connection, and \$1,000 is divided equally among the four sections. Evan must pay as a potentially refundable advance-in-aid of construction the remaining \$8,000 or \$2,000 per section.

One year later, Judy attaches to the line

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extension at the lot corner, at point B. A secondary service connection costs \$500. The Company pays up to \$1,000 for the secondary, plus Judy's share of the shared line up to another \$1,000. The Company pays \$500 for the secondary service connection. The unrefunded advance for this portion of the line equals \$2,000. The Company's \$1,000 contribution toward the unrefunded advance is paid to Evan and reduces his investment to \$1,000. Judy must have an investment equal to Evan's and her share is \$500. Judy's \$500 advance-in-aid of construction is then refunded to Evan. At this point, Evan has potentially refundable advances of \$2,000 for each of sections B-C, C-D, and D-E; and a potentially refundable advance of \$500 for section A-B.

One year later Steve attaches to the line extension at point C. A secondary service connection is needed and costs \$1,000. In addition, new primary facilities are constructed to serve Steve between points C and F. These new facilities cost an additional \$1,500. The Company pays a total of \$2,000: \$1,000 is applied to the cost of the secondary service connection, and \$1,000 is applied toward the cost of the new primary facilities from C to F.

Steve must pay the following amounts as advances-in-aid of construction:

- (1) \$500 to cover the remaining costs of his own primary construction;

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(2) \$333 (which is divided equally and refunded to Evan and Judy) to share in the advances for A to B;

(3) \$1,000 (which is refunded to Evan) to share in the costs of B to C;

At this point, the following potentially refundable advance amounts are outstanding:

(1) \$1,000 (\$333 each from Evan, Judy, and Steve) for A to B;

(2) \$2,000 (\$1,000 each from Evan and Steve) for B to C;

(3) \$2,000 from Evan for C to D;

(4) \$2,000 from Evan for D to E; and

(5) \$500 from Steve for C to F.

7.9 Large Commercial Extension of Facilities

(a) Costs

The Company will pay the cost of an overhead distribution facility extension constructed by it or under its control up to \$7,500.

Subject to the provisions of Section 7.6(a)(6), the applicant will be required to pay the Company portion as an advance-in-aid of con- [continued on sheet 56]

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struction; also, the applicant will pay as a contribution-in-aid of construction, any estimated costs in excess of the Company portion. In the case of underground facilities, the applicant will also be required to make a contribution-in-aid of construction equal to the difference between the cost of constructing the underground system and the cost of constructing a comparable overhead system.

(b) Subsequent Connections to the Line Extension

The original cost of the line extension is not shared with subsequent applicants. A waiver to this provision may be granted for instances where joint use is anticipated and cost sharing will benefit all potentially interested parties. The waiver must be approved by the Alaska Public Utilities Commission. The waiver must be requested by the applicant prior to completing the required agreements and cost estimates will reflect both cost sharing and sole responsibility for costs. If construction is to commence pending A.P.U.C. approval of cost sharing, the applicant must agree to assume sole responsibility for costs.

(c) Refunds

When large commercial facilities are constructed by the Company or under its control and an applicant has paid an advance-in-aid of construction, the Company will refund the advance-in-aid of construction when the applicant has

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continuously registered an average monthly demand in excess of 50 kW over five (5) year, commencing with permanent connection of service.

7.10 Harbors

(a) Costs

This section applies to developers of harbor facilities. The Company will pay the cost of an overhead distribution facility extension constructed by it or under its control up to the lesser of \$7,500 or \$500 per boat stall to be provided electrical power.

The extension shall include all construction required to provide distribution power to a main disconnect located within 15 feet of the distribution transformer. This extension includes all distribution primary facilities, transformer, and secondary to the main disconnect point. The Company will install only land based facilities. Facilities installed on floating docks and the like will be the responsibility of the developer. The harbor developer will be responsible for construction and maintenance of the distribution system including the main disconnect switch and all facilities on the load side of the main disconnect switch to the individual boat stall services. The facilities for which the developer is responsible will remain the property of the harbor owner.

Subject to the provisions of Section 7.6(a) (6),

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harbor developers will be required to pay the Company portion as an advance-in-aid of construction; also, the applicant will pay as a contribution-in-aid of construction, any estimated costs in excess of the Company portion. In the case of underground facilities, the applicant will also be required to make a contribution-in-aid of construction equal to the difference between the estimated cost of constructing the underground system and the cost of construction a comparable overhead system.

(b) Refund of the Advance-in-aid of Construction

When harbor distribution facilities are constructed by the Company or under its control and an applicant has paid an advance-in-aid of construction, the Company will refund the amount of the advance-in-aid of construction upon completion of the harbor facilities and availability of the stalls for public use.

7.11 Miscellaneous

This section is applicable to construction of services for minimal and/or non-permanent loads. This includes, but is not limited to mobile homes without permanent foundations, trailers, portable housing, portable bulk plants, camper parks, load centers for street lights, thaw wires, signalization, bus shelters, and other like uses.

Subject to the provisions of Section 7.6(a)(6), the applicant will be required to pay prior to construction, a contribution-in-aid of construction, all

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estimated costs of the line extension in excess of fifteen (15) feet in length of secondary conductor, from the available power source identified by the Company.

When an applicant requests service that does not qualify as permanent service pursuant to Section 3.1, the applicant will also be required to pay prior to installation, a contribution-in-aid of construction equal to the total estimated cost of removal of the facilities necessary to provide such service. The applicant will not pay more than 110% the estimated cost. If actual costs are less than estimated, the excess contribution-in-aid of construction will be refunded within two months of project completion. The applicant shall bear the cost of any unusual or unsalvageable material required to provide such service.

7.12 Applicant Design and Construction Procedure for Extension of Distribution Facilities

An applicant for service may design, construct and install new distribution facilities under the following conditions:

(a) Before Construction Begins

- (1) The applicant must complete and sign the Agreement to Extend Electric Distribution Facilities for Applicant Construction.
- (2) All such facilities must be designed and certified by an electrical engineer who is registered in Alaska. Design shall comply

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with applicable codes and standards provided by law.

(3) The Company may refuse service to an applicant unless the applicant grants necessary specific easements and right-of-way. The Company will not require a blanket easement.

(4) The Company will aid in obtaining easements where none exist and permit use of existing easements unless prohibited by law. The Company shall have the right to charge the applicant for all costs associated with this assistance. These costs will be estimated prior to providing this assistance.

(5) The electrical design shall meet the Company's standards included in Section 7.13.

(b) During Construction

(1) All construction and materials must meet the standards and specifications of the Rural Electrification Administration of the U.S. Department of Agriculture (REA), Company standards which are included in Section 7.13 and any other applicable codes and standards provided by law.

(2) All facilities must be constructed under the supervision of an electrical administrator in that area of expertise who [continued]

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is licensed in the State of Alaska to perform outside electrical construction.

- (3) All employees engaged in outside electrical construction must have certificates of fitness issued by the State of Alaska.
- (4) The Company shall have the right to conduct reasonable inspections, charge inspection fees, and assure that applicant constructed line extensions and service connections fully conform to the State minimum electrical standards adopted under AS 18.60.580 and are substantially equivalent to the Company's design standards for Company-installed facilities. No underground facilities shall be buried prior to inspection and approval by the Company.
- (5) All materials must be furnished by the applicant, but such materials must be approved by the Company in advance as meeting REA specifications, Company standards as shown in Section 7.13 and be compatible with existing Company materials.

In no event may an applicant or his contractors or subcontractors work on energized facilities.

(c) After Construction

- (1) The applicant must provide the Company with a certified as-built survey of the installed facilities performed by a registered surveyor and a release of all

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liens signed by all contractors, subcontractors and materials suppliers on the project; and

- (2) The applicant shall furnish a guarantee, equal to twenty percent (20%) of the estimated construction cost, in the form of a performance bond, letter of credit, escrow account or cash advance as a warranty that the facilities will perform satisfactorily for one (1) year after being energized.

If repairs are required for reasons caused by the applicant, the Company will perform those repairs. The applicant is responsible for the cost thereof. So much of the bond, letter of credit, escrow account or cash advance as is necessary to reimburse the Company will be forfeited to the Company as partial or complete payment for the costs.

- (3) The Company will make a final inspection of the facilities, which will be performed within five working days after the applicant gives the Company notice of project completion. See Section 12 for the inspection fee.

Once all of these steps are complete and the Company has accepted the project, the Company will assume title to the facilities and responsibility for further maintenance, except for harbor facilities as described in Section 7.10. The energizing shall be

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completed within five working days of inspection and acceptance by the Company, or applicant request for energizing, whichever is later. The costs incurred by the applicant in building the facilities are not refundable.

7.13 Applicant Design and Construction Specifications

The specifications of this section are equivalent to those applicable to facilities which are constructed by or under the direction of the Company.

All materials and equipment shall be new.

(a) Overhead Line Construction:

The REA standard D804, Form 805, the applicable National Electrical Safety Code (NESC), and the applicable National Electrical Code (NEC) shall be followed except as noted below.

(1) Conductors

The neutral conductor spacing shall be 7 feet below the phase conductors.

(2) Transformers

Transformers will be new and not rebuilt.

Color will be ANSI light gray.

The location for mounting on the pole shall be above the neutral and below the phase conductors.

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Shall be fused externally with cutouts.

Maximum no-load losses and load losses as a percent of full-load rating shall be .2% and 1% respectively.

Certified less than 1 part per million PCB oil.

(3) Insulators

Insulators shall be of class 4 rating and ANSI gray in color.

(4) Poles

Shall be fully treated douglas fir.

(5) Right-of-way

Distribution primary voltage shall have a 30 ft. right-of-way required. Additionally, all danger trees outside of the 30 ft. right-of-way shall be removed.

(b) Underground Line Construction

The REA standard Form 806, the applicable National Electrical Safety Code (NESC), and the applicable National Safety Code (NEC) shall be followed except as noted below.

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Primary Facilities:

(1) Conductors

All cables shall be installed in schedule 40 PVC.

Conductors will be copper.

Conductor will be 133% insulation level.

For three phase, the primary cable must be of a jacketed power cable type.

All riser elbows shall be rigid steel conduit.

All risers shall be rigid steel conduit a minimum of 10 ft. above ground. Schedule 40 PVC will be permitted above 10 feet in height.

No primary splices will be permitted.

Primary junctions will be above ground using load break elbows and terminated in a junction box similar to Continental Columbus CW326TH.

(2) Transformers

Transformers will be new and not rebuilt.

Maximum no-load losses and load losses as a percent of full-load rating shall be .2% and 1% respectively.

Transformers will be pad mount type with penta

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locks, dead front, bayonet fused, primary loop feed, and green paint.

Lugs to have a minimum of 24 inches clearance above the ground level. Transformer basement vaults are permitted to obtain the 24 inch spacing.

Transformer secondary lugs, for residential application shall be equipped with 6 hole secondary blocks good for #2 to 350 MCM cables. Similar to Blackburn part #PSB6.

Certified less than 1 part per million PCB oil.

(3) Right-of-way

Required right-of-way will generally be 10 ft. in width.

Secondary Facilities:

(1) Conductors

All cables shall be installed in schedule 40 PVC at a minimum depth of 24 inches.

Conductors will be copper.

All riser elbows shall be rigid steel.

All risers shall be rigid steel conduit and extend a minimum of 10 ft. above ground. Schedule 40 PVC will be permitted above 10 feet in height.

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(2) Junctions and Splices

Secondary junctions (pedestals) will be above ground and housed in a fiberglass enclosure with a minimum dimension of 14 x 14 inches, similar to Western Power Products' SP-14. Secondary connections in the pedestals will be made with an aluminum block having provisions for a minimum of 6 conductors, similar to Blackburn PSB6.

7.14 Service Requiring Special Contract

For industrial applicants with a connected load of greater than 1000 kW, the Company may require a special line extension contract that may include a contribution and/or advance-in-aid of construction for construction of transmission facilities, substations and base load and/or back-up generation facilities. Such a contract will be subject to the approval of the Alaska Public Utilities Commission.

Any extension of facilities which, in the Company's opinion, would require an unreasonable amount of future maintenance expenses in relation to existing facilities, may require a special line extension contract that may include provision for such maintenance. Such contracts will be subject to the approval of the Alaska Public Utilities Commission.

7.15 Modification of Existing Facilities

When requested, the Company will modify existing distribution facilities if technically and

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operationally feasible, including removing existing facilities or converting overhead facilities to underground. The applicant must pay the cost of the modification, conversion, or removal, as a contribution-in-aid of construction. Costs include associated engineering services. The applicant will also pay the cost of retiring existing facilities, including the expense of returning them to the Company's storage facility, minus the actual salvage value, if any, of any materials recovered.

A modification of existing facilities will not be considered "operationally feasible" if its purpose is to move all or part of the facilities to the premises of another, unless the latter agrees in writing to the modification.

7.16 System Improvements

A distribution facility extension may require changes or additions to existing Company facilities other than the facilities constructed for the applicant.

The applicant is not responsible for the cost of system upgrade which is incidentally the result of the applicant's addition to the system, provided the customer has a load requirement comparable to those in the area being served by the facilities requiring upgrade. If the system upgrade is required solely for the applicant's benefit, and the applicant's requirements are not comparable to those in the area affected, then it will be treated as a distribution facility extension.

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7.17 Winter Underground

Underground secondary service will be installed in frozen ground only if the applicant agrees to pay, as a contribution-in-aid of construction, an amount equal to the estimated cost of thawing the frozen ground. The applicant will not be required to pay for actual costs in excess of 110% of the estimated amount. If thawing is required, the Company will retain this payment. If the Company is able to install the underground service without thawing, the contribution-in-aid of construction will be refunded to the applicant.

7.18 Modifications to Grade or Surface Conditions

If, after construction of distribution facilities, the final grade or surface conditions established by an applicant are changed in such a way that it results in damage to the Company's facilities, is in violation of federal, state, or local law or electrical codes, causes inaccessibility of the facilities, or if relocation of such facilities is required, the applicant will pay, as a contribution-in-aid of construction, the cost of any resulting relocation and/or repair.

7.19 Ownership of Electrical Facilities

Subject to the provisions of Sections 7.10, 7.14, and 8.7 the Company shall own, operate and maintain all electric facilities up to the point of delivery, unless otherwise approved by the Company in writing.

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7.20 Unauthorized Construction

If an applicant or the applicant's authorized representative performs work or constructs facilities adjacent to or within an easement or right-of-way, and such work, construction, or facility poses a hazard, is in violation of federal, state, or local law, or significantly interferes with the Company's access to equipment, the Company shall notify the applicant or the applicant's authorized representative. If the applicant does not promptly correct the situation, the Company will take the necessary actions to eliminate the hazard, obstruction, or violation at the applicant's expense.

7.21 Successor in Interest

The applicant's interest in any refund to which the applicant may be entitled by this section may inure to the benefit of the applicant's heirs, successors, and assigns. But no assignment thereof will be effective unless it is in writing and filed with the Company. The Company, likewise, has no obligation to make a refund to any person for whom it has not been furnished a current mailing address.

7.22 Financing Assistance

When the Company designs and constructs an extension to its facilities, the Company will provide financing assistance to an applicant who requests a single residential extension where the cost of providing service to any individual applicant is in excess of \$2,000; and under certain conditions.

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- (a) If the applicant's credit worthiness is established to the satisfaction of the Company, then the Company will finance the amount greater than \$2,000 and less than \$15,000 by the applicant entering into a written agreement to pay the amount in up to sixty (60) equal installments known as monthly service extension charges. No interest will be charged on the unpaid balance.
- (b) Prior to providing financing assistance, the Company may require the applicant to provide adequate security such as real property, mortgage, or deed of trust, to protect the Company's investment. Such a security instrument will be rescinded once the monies are paid in full.
- (c) Any refund due the applicant will be applied against the balance of the applicant's line extension account and the number of monthly payments will be reduced accordingly.

7.23 Forms

The Company shall use forms as are necessary and appropriate. Copies of these forms are found in the Appendix Section of this tariff.

- (a) Application for Line Extension
- (b) Preliminary Construction Cost Estimate
- (c) Agreement to Extend Electric Distribution Facilities (Extension by Alaska Electric Light

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- (d) Agreement to Extend Electric Distribution Facilities (Payment Plan - Extension by Alaska Electric Light and Power Co. - Available to Single Residential Applicants Only)
- (e) Agreement to Extend Electric Distribution Facilities for Applicant Construction

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