

APPENDIX E—DISTRIBUTION LINE MINIMUM DESIGN REVIEW INFORMATION AND WORKSHEET

The following guidelines are provided, and corresponding information must be submitted with each Permit application for Pole Attachments on the Licensor’s system. The Licensor may direct that certain Attachments do not require the submittal of Design Review Information. These Attachments are noted at the end of this section.

Each Permit application must include a report from a professional engineer registered to practice in the State of Washington, and experienced in electric Utility system design, or a Licensor-approved employee or contractor of Licensee. This report must clearly identify the proposed construction and must verify that the Attachments proposed will maintain the Licensor’s compliance with NESC Class B construction for medium loading as outlined in the NESC Section 25.

The Licensor may or may not require that all of the following information be submitted at the time of the Permit application. The applicant shall have performed all required calculations and be ready to provide the detailed information below within fifteen (15) calendar days of notice. Applicant shall keep copies of the engineering data available for a period of twenty (20) years.

Licensee shall comply with any NESC and/or Licensor safety factors; whichever is more conservative, in their designs. The engineer for the Permit applicant shall provide for each application the following confirmations:

- **Required permits that have been obtained** (insert n/a if not applicable):

- _____ (y/n) U.S. Corp of Engineers.
- _____ (y/n) Highway—state, county, Licensor.
- _____ (y/n) Railroad.
- _____ (y/n) Local zoning boards, town boards, etc.
- _____ (y/n) Joint use permits, if required.

- **Confirm that you have:**

- _____ (y/n) Obtained appropriate franchise(s).
- _____ (y/n) Obtained Pole/anchor easements from land owners.
- _____ (y/n) Obtained crossing and overhang permits.
- _____ (y/n) Obtained permit to survey R/W.

- _____ (y/n) Completed State of Washington Department of Transportation requirements.
- _____ (y/n) Placed permit number on plans.
- _____ (y/n) Complied with Washington State Underground Facility Location requirements.
- _____ (y/n) Included sag/tension data on proposed cable.

Calculations are based upon the latest edition of the NESC and the latest editions of the requirements of the State of Washington.

It is Licensee’s responsibility to obtain all necessary permits and easements and provide the Licensor with a copy of each, if requested.

The engineer for the Permit applicant shall provide for each Pole(s) the following information:
 Note: Items marked with an * are required, other items are as requested by the Licensor.

General:*

- Licensee’s Project No. _____
- Pole class _____ [existing—*i.e.*, 4, 3, 2...]
- Pole height _____ [existing—*i.e.*, 35, 40...]
- Pole type _____ [Western Red, Cedar, Douglas Fir...]
- Pole fore span _____ [feet]
- Pole back span _____ [feet]
- Calculated bending moment at ground level _____ [ft–lbs]

Proposed:

Cable:

- Type: _____, Quantity: _____, Diameter (in): _____, Height above Ground: _____ ft*
- Type: _____, Quantity: _____, Diameter (in): _____, Height above Ground: _____ ft*
- Type: _____, Quantity: _____, Diameter (in): _____, Height above Ground: _____ ft*

The minimum vertical clearance under all loading conditions measured from the proposed cable to ground level on each conductor span shall be stated above. Variations in topography resulting in ground elevation changes shall be considered when stating the minimum vertical clearance within a given span.

Proposed loading data [provide similar data for each cable proposed]:*

A. Weight data (cable and messenger)

1. Vertical weight, bare = _____ [#ft]

B. Tension data (final tensions on messenger)

1. Tensile Capacity of Cable: _____ [lbs]

2. NESC maximum load for area of construction: _____ [lbs]

2. 60° F, NO wind: _____ [lbs]

Permit applicant's engineer shall provide for each transverse or dead end pole to which guy(s) are attached, the following information:*

- Licensee's Plan Sheet Pole number(s) _____
- Corresponding Calculated guy tension under NESC maximum loading conditions _____ [lbs]