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## **DATA REQUEST RESPONSE**

**LIBERTY UTILITIES (CALPECO ELECTRIC) LLC**

**A.18-10-007**

**Wildfire Mitigation Plans Rulemaking**

Data Request No.: CalPA-Liberty-R1810007-001  
Subject Matter: Workpapers  
Requesting Party: Public Advocates  
Originator: Nathaniel Skinner  
Date Received: February 6, 2019

### **REQUEST NO. 1**

Please provide all workpapers and supporting documents related to Liberty's Wildfire Mitigation Plan filing in searchable and original "live" format (spreadsheet, etc.).

### **RESPONSE TO REQUEST NO. 1:**

Please find the following files as attached.

The following projects' cost support can be found at:

Table 7-1. Estimated Plan Cost Implications

Mitigation item	Cost Estimated	Notes	Cost Recovery
Automatic Reclosers	\$7,350,000	Total	GRC
Covered Conductors	\$614,000	Per Mile	GRC / FRMMA <sup>43</sup>
Pole Loading and Replacement	\$12,000 - \$15,000	Per Pole	GRC / FRMMA
Fuse Replacement	\$721,550	Annual	FRMMA
Substation Design Hardening	\$16,500,000	Total	GRC / FRMMA
Undergrounding	\$7,290,220	Total	GRC
Tree Attachment Removal	\$420,000	Annual	FRMMA
Vegetation Management Plan	\$4,000,000	Annual	GRC
Forest Resiliency Corridor	\$661,000	Contribution above share	FRMMA
Weather Station Installations	\$148,720	Total	FRMMA

Automatic Reclosers: Please see Liberty CalPeco’s GRC Application A1812001.

Covered Conductors: Please see Liberty CalPeco’s GRC Application A1812001 and workpaper WMPDR\_1.

Furthermore, estimations according to our CalPeco system engineer were as follows:

“The attachment only shows the cost of materials, installation parts and services provided by Hendrix. The project is for 17 tangent poles and 2 light angle poles with 397.5 with 2 transformers on this line, about 3,500 circuit feet in length.

1. Circuit Parts – lists all the materials needed for the project. Cost is \$35K. A Quadra estimate to reflect just the arms, insulators, and wire and it came to about \$15K.
2. Installation Parts – lists all the equipment needed to install the Aerial Cable System per Hendrix.
3. Services – lists the items included for their Engineering and Field Technician services.

This cost does not include cost for the poles, miscellaneous hardware and labor. The Quadra estimate for the 4 phases that we have designed and assumed and increase of 40% per the Hendrix representative’s suggestion.

10% of the project is materials and 90% is labor; so we can assume the total cost will be around \$350K for 0.66 miles or roughly \$530K per mile.”

Additionally, in regards to the 7300 line rebuild: “There are 4 phases that are designed on the 7300, with about 20-25 poles per phase. The most expensive one is about \$285K and is approximately 0.65miles. This translates to roughly \$438K per mile. If you assume an increase of 40%, then with the aerial cable system it will be around **\$614K** per mile on the 7300 circuit rebuild.”

Pole Loading and Replacement: Please see Liberty CalPeco’s GRC Application A1812001 and workpapers WMPDR\_2, WMPDR\_3.

Workpaper WMPDR\_2 reflects a 3-pole loading and replacement job total cost. Workpaper WMPDR\_3 reflects a one-pole loading and replacement job total cost.

Fuse Replacement: Please see workpaper WMPDR\_4 tab “fuse deployment schedule”.

Substation Design Hardening: Please see Liberty CalPeco’s GRC Application A1812001.

Undergrounding: Please see Liberty CalPeco’s GRC Application A1812001.

Tree Attachment Removal: Please see workpaper WMPDR\_5. On page 28 of the Liberty CalPeco Wildfire Mitigation Plan it states that the approximate cost of \$7,000 per pole/tree attachment times the 60 projected attachments between North and South Lake Tahoe will result in costs of about \$420,000.

Vegetation Management Plan: Please see Liberty CalPeco’s GRC Application A1812001.

Forest Resiliency Corridor: Please see workpapers WMPDR\_6, WMPDR\_7.

Furthermore, per our Vegetation Control and Regulatory Compliance Manager:

“The funding requested in the WMP, **\$661,000**, for Forest Resiliency Corridor work can be broken into two categories:

- 1) Powerline Right-of-Way fuels reduction (\$400,000), which is Item D in the Scope of Work. Item D illustrates the removal of all flammable surface fuels over 18 inches in height within 15 feet of either side of the poles’ center line in order to reduce potential fire behavior. This accounts for approximately 200 acres of fuels reduction work. We estimated the cost per acre for this treatment to be approximately \$2,000/acre.
- 2) Resilience Corridor Implementation (\$261,030) for item E in the Scope of Work. Item E illustrates additional forest fuels reduction and biomass utilization to mitigate fuel loading resulting from Liberty CalPeco’s work as it pertains to the implementation of items A, B, C, and D. Item E represents 17.5% of the total acreage of the project. Liberty CalPeco and its grant partners estimate that 33% of the tree removal in this zone would result from Liberty CalPeco’s efforts to cut any dead,

dying, diseased, and defective trees (or portions of trees) within felling distance of powerlines. The Calfire grant share for this item multiplied by 17.5%, multiplied by 33% is equal to \$261,030.”

Weather Station Installations: Please see workpaper WMPDR\_4 tab “Cost estimates”.