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March 29, 2022

DATA REQUEST RESPONSE

LIBERTY UTILITIES (CALPECO ELECTRIC) LLC

Data Request No.: Cal Advocates-Liberty-2023WMP-03
Subject Matter: 2023 Wildfire Mitigation Plans
Originator: Aaron Louie
Due Date: March 24, 2023 (extension granted until March 31, 2023)

REQUEST NO. 1:

Provide an Excel table of all distribution circuits existing as of January 1, 2023 (as rows) that includes the following information in separate columns.

- a) Circuit name
- b) Circuit ID number
- c) Total circuit miles
- d) Circuit miles in Non-HFTD Areas
- e) Circuit miles in Other HFTD
- f) Circuit miles in HFTD Tier 2
- g) Circuit miles in HFTD Tier 3
- h) Circuit voltage
- i) Circuit SAIDI (System Average Interruption Duration Index) for 2021
- j) Circuit SAIDI (System Average Interruption Duration Index) for 2022
- k) Circuit SAIFI (System Average Interruption Frequency Index) for 2021
- l) Circuit SAIFI (System Average Interruption Frequency Index) for 2022
- m) Circuit MAIFI (Momentary Average Interruption Frequency Index) for 2021
- n) Circuit MAIFI (Momentary Average Interruption Frequency Index) for 2022
- o) Total customer-minutes of de-energization on the circuit due to PSPS events in 2021 (sum of customer-minutes across all PSPS events).
- p) Total customer-minutes of de-energization on the circuit due to PSPS events in 2022 (sum of customer-minutes across all PSPS events).
- q) Total customer-minutes of de-energization on the circuit due to fast-trip settings in 2021.
- r) Total customer-minutes of de-energization on the circuit due to fast-trip settings in 2022.
- s) Number of trees that were worked on for EVM in Non-HFTD in 2021
- t) Number of trees that were worked on for EVM in Non-HFTD in 2022
- u) Number of trees that were worked on for EVM in Other HFTD in 2021
- v) Number of trees that were worked on for EVM in Other HFTD in 2022
- w) Number of trees that were worked on for EVM in HFTD Tier 2 in 2021
- x) Number of trees that were worked on for EVM in HFTD Tier 2 in 2022

- y) Number of trees that were worked on for EVM in HFTD Tier 3 in 2021
- z) Number of trees that were worked on for EVM in HFTD Tier 3 in 2022
- aa) Miles of covered conductor installed in Non-HFTD in 2021
- bb) Miles of covered conductor installed in Non-HFTD in 2022
- cc) Miles of covered conductor installed in Other HFTD in 2021
- dd) Miles of covered conductor installed in Other HFTD in 2022
- ee) Miles of covered conductor installed in HFTD Tier 2 in 2021
- ff) Miles of covered conductor installed in HFTD Tier 2 in 2022
- gg) Miles of covered conductor installed in HFTD Tier 3 in 2021
- hh) Miles of covered conductor installed in HFTD Tier 3 in 2022
- ii) Number of poles replaced in Non-HFTD in 2021
- jj) Number of poles replaced in Non-HFTD in 2022
- kk) Number of poles replaced in Other HFTD in 2021
- ll) Number of poles replaced in Other HFTD in 2022
- mm) Number of poles replaced in HFTD Tier 2 in 2021
- nn) Number of poles replaced in HFTD Tier 2 in 2022
- oo) Number of poles replaced in HFTD Tier 3 in 2021
- pp) Number of poles replaced in HFTD Tier 3 in 2022
- qq) Miles of underground conductor installation in Non-HFTD in 2021
- rr) Miles of underground conductor installation in Non-HFTD in 2022
- ss) Miles of underground conductor installation in Other HFTD in 2021
- tt) Miles of underground conductor installation in Other HFTD in 2022
- uu) Miles of underground conductor installation in HFTD Tier 2 in 2021
- vv) Miles of underground conductor installation in HFTD Tier 2 in 2022
- ww) Miles of underground conductor installation in HFTD Tier 3 in 2021
- xx) Miles of underground conductor installation in HFTD Tier 3 in 2022
- yy) Miles of LiDAR inspection in Non-HFTD in 2021
- zz) Miles of LiDAR inspection in Non-HFTD in 2022
- aaa) Miles of LiDAR inspection in Other HFTD in 2021
- bbb) Miles of LiDAR inspection in Other HFTD in 2022
- ccc) Miles of LiDAR inspection in HFTD Tier 2 in 2021
- ddd) Miles of LiDAR inspection in HFTD Tier 2 in 2022
- eee) Miles of LiDAR inspection in HFTD Tier 3 in 2021
- fff) Miles of LiDAR inspection in HFTD Tier 3 in 2022
- ggg) Number of detailed overhead inspections in Non-HFTD in 2021
- hhh) Number of detailed overhead inspections in Non-HFTD in 2022
- iii) Number of detailed overhead inspections in Other HFTD in 2021
- jjj) Number of detailed overhead inspections in Other HFTD in 2022
- kkk) Number of detailed overhead inspections in HFTD Tier 2 in 2021
- lll) Number of detailed overhead inspections in HFTD Tier 2 in 2022
- mmm) Number of detailed overhead inspections in HFTD Tier 3 in 2021
- nnn) Number of detailed overhead inspections in HFTD Tier 3 in 2022
- ooo) Number of sectionalization devices installed in Non-HFTD in 2021
- ppp) Number of sectionalization devices installed in Non-HFTD in 2022
- qqq) Number of sectionalization devices installed in Other HFTD in 2021

- rrr) Number of sectionalization devices installed in Other HFTD in 2022
- sss) Number of sectionalization devices installed in HFTD Tier 2 in 2021
- ttt) Number of sectionalization devices installed in HFTD Tier 2 in 2022
- uuu) Number of sectionalization devices installed in HFTD Tier 3 in 2021
- vvv) Number of sectionalization devices installed in HFTD Tier 3 in 2022.

RESPONSE TO REQUEST NO. 1:

Refer to supporting file: “CalAdvocates-Liberty-2023WMP-03_ Liberty Response Questions 1-4,” Tab Q1 – Distribution.

REQUEST NO. 2:

Provide an Excel table of all transmission circuits existing as of January 1, 2023 (as rows) that includes the following information in separate columns.

- a) Circuit name
- b) Circuit ID number
- c) Total circuit miles
- d) Circuit miles in Non-HFTD Areas
- e) Circuit miles in Other HFTD
- f) Circuit miles in HFTD Tier 2
- g) Circuit miles in HFTD Tier 3
- h) Circuit voltage
- i) Total customer-minutes of de-energization on the circuit due to PSPS events in 2021 (sum of customer-minutes across all PSPS events).
- j) Total customer-minutes of de-energization on the circuit due to PSPS events in 2022 (sum of customer-minutes across all PSPS events).
- k) Total customer-minutes of de-energization on the circuit due to fast-trip settings in 2021.
- l) Total customer-minutes of de-energization on the circuit due to fast-trip settings in 2022.
- m) Number of support structures replaced in Non-HFTD in 2021
- n) Number of support structures replaced in Non-HFTD in 2022
- o) Number of support structures replaced in Other HFTD in 2021
- p) Number of support structures replaced in Other HFTD in 2022
- q) Number of support structures replaced in HFTD Tier 2 in 2021
- r) Number of support structures replaced in HFTD Tier 2 in 2022
- s) Number of support structures replaced in HFTD Tier 3 in 2021
- t) Number of support structures replaced in HFTD Tier 3 in 2022
- u) Miles of LiDAR inspection in Non-HFTD in 2021
- v) Miles of LiDAR inspection in Non-HFTD in 2022

- w) Miles of LiDAR inspection in Other HFTD in 2021
- x) Miles of LiDAR inspection in Other HFTD in 2022
- y) Miles of LiDAR inspection in HFTD Tier 2 in 2021
- z) Miles of LiDAR inspection in HFTD Tier 2 in 2022
- aa) Miles of LiDAR inspection in HFTD Tier 3 in 2021
- bb) Miles of LiDAR inspection in HFTD Tier 3 in 2022
- cc) Number of detailed aerial inspections in Non-HFTD in 2021
- dd) Number of detailed aerial inspections in Non-HFTD in 2022
- ee) Number of detailed aerial inspections in Other HFTD in 2021
- ff) Number of detailed aerial inspections in Other HFTD in 2022
- gg) Number of detailed aerial inspections in HFTD Tier 2 in 2021
- hh) Number of detailed aerial inspections in HFTD Tier 2 in 2022
- ii) Number of detailed aerial inspections in HFTD Tier 3 in 2021
- jj) Number of detailed aerial inspections in HFTD Tier 3 in 2022
- kk) Number of detailed climbing inspections in Non-HFTD in 2021
- ll) Number of detailed climbing inspections in Non-HFTD in 2022
- mm) Number of detailed climbing inspections in Other HFTD in 2021
- nn) Number of detailed climbing inspections in Other HFTD in 2022
- oo) Number of detailed climbing inspections in HFTD Tier 2 in 2021
- pp) Number of detailed climbing inspections in HFTD Tier 2 in 2022
- qq) Number of detailed climbing inspections in HFTD Tier 3 in 2021
- rr) Number of detailed climbing inspections in HFTD Tier 3 in 2022
- ss) Number of detailed ground inspections in Non-HFTD in 2021
- tt) Number of detailed ground inspections in Non-HFTD in 2022
- uu) Number of detailed ground inspections in Other HFTD in 2021
- vv) Number of detailed ground inspections in Other HFTD in 2022
- ww) Number of detailed ground inspections in HFTD Tier 2 in 2021
- xx) Number of detailed ground inspections in HFTD Tier 2 in 2022
- yy) Number of detailed ground inspections in HFTD Tier 3 in 2021
- zz) Number of detailed ground inspections in HFTD Tier 3 in 2022
- aaa) Number of sectionalization devices installed in Non-HFTD in 2021
- bbb) Number of sectionalization devices installed in Non-HFTD in 2022
- ccc) Number of sectionalization devices installed in Other HFTD in 2021
- ddd) Number of sectionalization devices installed in Other HFTD in 2022
- eee) Number of sectionalization devices installed in HFTD Tier 2 in 2021
- fff) Number of sectionalization devices installed in HFTD Tier 2 in 2022

- ggg) Number of sectionalization devices installed in HFTD Tier 3 in 2021
- hhh) Number of sectionalization devices installed in HFTD Tier 3 in 2022
- iii) Miles of transmission ROW expansion performed in Non-HFTD in 2021
- jjj) Miles of transmission ROW expansion performed in Non-HFTD in 2022
- kkk) Miles of transmission ROW expansion performed in Other HFTD in 2021
- lll) Miles of transmission ROW expansion performed in Other HFTD in 2022
- mmm) Miles of transmission ROW expansion performed in HFTD Tier 2 in 2021
- nnn) Miles of transmission ROW expansion performed in HFTD Tier 2 in 2022
- ooo) Miles of transmission ROW expansion performed in HFTD Tier 3 in 2021
- ppp) Miles of transmission ROW expansion performed in HFTD Tier 3 in 2022.

RESPONSE TO REQUEST NO. 2:

Refer to supporting file: “CalAdvocates-Liberty-2023WMP-03_ Liberty Response Questions 1-4,” Tab Q2 – Transmission.

REQUEST NO. 3:

Provide an Excel table of all distribution circuits existing as of January 1, 2022, that were removed or decommissioned in 2022, either partially or entirely (as rows). This includes permanent removal, removal of overhead lines that were moved underground, or overhead lines that were decommissioned but not physically removed. Include the following information in separate columns.

- a) Circuit name
- b) Circuit ID number
- c) Circuit miles removed or decommissioned in Non-HFTD Areas
- d) Circuit miles removed or decommissioned in Other HFTD
- e) Circuit miles removed or decommissioned in HFTD Tier 2
- f) Circuit miles removed or decommissioned in HFTD Tier 3
- g) Reason(s) for removal or decommissioning.

RESPONSE TO REQUEST NO. 3:

Refer to supporting file: “CalAdvocates-Liberty-2023WMP-03_ Liberty Response Questions 1-4,” Tab Q3 – Distribution Removals.

REQUEST NO. 4:

Provide an Excel table of all transmission circuits existing as of January 1, 2022, that were removed or decommissioned in 2022, either partially or entirely (as rows). This includes permanent removal, removal of overhead lines that were moved underground, or overhead lines

that were decommissioned but not physically removed. Include the following information in separate columns.

- a) Circuit name
- b) Circuit ID number
- c) Circuit miles removed or decommissioned in Non-HFTD Areas
- d) Circuit miles removed or decommissioned in Other HFTD
- e) Circuit miles removed or decommissioned in HFTD Tier 2
- f) Circuit miles removed or decommissioned in HFTD Tier 3
- g) Reason(s) for removal or decommissioning.

RESPONSE TO REQUEST NO. 4:

Refer to supporting file: “CalAdvocates-Liberty-2023WMP-03_ Liberty Response Questions 1-4,” Tab Q4 – Transmission Removals.

REQUEST NO. 5:

For each WMP initiative listed below, please state how the modeled Wildfire Risk Scores for each circuit or circuit-segment influenced where you performed work in 2022.

- a) Vegetation management (VM)
- b) Covered conductor installation
- c) Undergrounding
- d) Distribution pole replacement
- e) Grid sectionalization
- f) Detailed inspections of distribution assets
- g) Detailed inspections of transmission assets
- h) Aerial inspections of distribution assets
- i) Aerial inspections of transmission assets
- j) LiDAR inspections of distribution assets
- k) LiDAR inspections of transmission assets.

RESPONSE TO REQUEST NO. 5:

Liberty did not perform overall wildfire risk scores at the circuit or circuit segment level that influenced where it performed work in 2022. Work performed in 2022 was planned using separate risk analysis, compliance requirements, and/or subject matter expertise. Liberty is evaluating the results of differing wildfire risk assessments at the circuit and/or circuit segment level to plan and prioritize where it performs future work in 2024. For additional information,

refer to Section 6.7, Section 7.1.3, Section 7.1.4, and individual initiative subsections in Section 8 of Liberty's 2023 WMP pre-submission.

REQUEST NO. 6:

For each WMP initiative listed below, please state how the modeled Wildfire Risk Scores for each circuit or circuit-segment influenced how work in 2022 was sequenced.

- a) VM
- b) Covered conductor installation
- c) Undergrounding
- d) Distribution pole replacement
- e) Grid sectionalization
- f) Detailed inspections of distribution assets
- g) Detailed inspections of transmission assets
- h) Aerial inspections of distribution assets
- i) Aerial inspections of transmission assets
- j) LiDAR inspections of distribution assets
- k) LiDAR inspections of transmission assets.

RESPONSE TO REQUEST NO. 6:

Liberty did not perform overall wildfire risk scores at the circuit or circuit segment level that influenced how work was sequenced in 2022. Work performed in 2022 was planned using separate risk analysis, compliance requirements, and/or subject matter expertise. Liberty is evaluating the results of differing wildfire risk assessments at the circuit and/or circuit segment level to plan and prioritize how future work is sequenced in 2024. For additional information, refer to Section 6.7, Section 7.1.3, Section 7.1.4, and individual initiative subsections in Section 8 of Liberty's 2023 WMP pre-submission.

REQUEST NO. 7:

For each WMP initiative listed below, please state how the modeled Wildfire Risk Scores for each circuit or circuit-segment influence where you plan to perform work in 2023.

- a) VM
- b) Covered conductor installation
- c) Undergrounding
- d) Distribution pole replacement
- e) Grid sectionalization
- f) Detailed inspections of distribution assets

- g) Detailed inspections of transmission assets
- h) Aerial inspections of distribution assets
- i) Aerial inspections of transmission assets
- j) LiDAR inspections of distribution assets
- k) LiDAR inspections of transmission assets.

RESPONSE TO REQUEST NO. 7:

Liberty did not perform overall wildfire risk scores at the circuit or circuit segment level that influenced where it performed work in 2023. Work performed in 2023 was planned using separate risk analysis, compliance requirements, and/or subject matter expertise. Liberty is evaluating the results of differing wildfire risk assessments at the circuit and/or circuit segment level to plan and prioritize where it performs future work in 2024. For additional information, refer to Section 6.7, Section 7.1.3, Section 7.1.4, and individual initiative subsections in Section 8 of Liberty's 2023 WMP pre-submission.

REQUEST NO. 8:

For each WMP initiative listed below, please state which and how the modeled Wildfire Risk Scores for each circuit or circuit-segment influence how work in 2023 will be sequenced.

- a) VM
- b) Covered conductor installation
- c) Undergrounding
- d) Distribution pole replacement
- e) Grid sectionalization
- f) Detailed inspections of distribution assets
- g) Detailed inspections of transmission assets
- h) Aerial inspections of distribution assets
- i) Aerial inspections of transmission assets
- j) LiDAR inspections of distribution assets
- k) LiDAR inspections of transmission assets.

RESPONSE TO REQUEST NO. 8:

Liberty did not perform overall wildfire risk scores at the circuit or circuit segment level that influenced how work was sequenced in 2023. Work performed in 2023 was planned using separate risk analysis, compliance requirements, and/or subject matter expertise. Liberty is evaluating the results of differing wildfire risk assessments at the circuit and/or circuit segment level to plan and prioritize how future work is sequenced in 2024. For additional information, refer to Section 6.7, Section 7.1.3, Section 7.1.4, and individual initiative subsections in Section 8 of Liberty's 2023 WMP pre-submission.

REQUEST NO. 9:

For each WMP initiative listed below, please state how the modeled Wildfire Risk Scores for each circuit or circuit-segment influence where you plan to perform work in 2024.

- a) VM
- b) Covered conductor installation
- c) Undergrounding
- d) Distribution pole replacement
- e) Grid sectionalization
- f) Detailed inspections of distribution assets
- g) Detailed inspections of transmission assets
- h) Aerial inspections of distribution assets
- i) Aerial inspections of transmission assets
- j) LiDAR inspections of distribution assets
- k) LiDAR inspections of transmission.

RESPONSE TO REQUEST NO. 9:

Liberty is evaluating the results of differing wildfire risk assessments at the circuit and/or circuit segment level to plan and prioritize where it performs future work in 2024. For additional information, refer to Section 6.7, Section 7.1.3, Section 7.1.4, and individual initiative subsections in Section 8 of Liberty's 2023 WMP pre-submission.

REQUEST NO. 10:

For each WMP initiative listed below, please state how the modeled Wildfire Risk Scores for each circuit or circuit-segment influence how work in 2024 will be sequenced.

- a) VM
- b) Covered conductor installation
- c) Undergrounding
- d) Distribution pole replacement
- e) Grid sectionalization
- f) Detailed inspections of distribution assets
- g) Detailed inspections of transmission assets
- h) Aerial inspections of distribution assets
- i) Aerial inspections of transmission assets
- j) LiDAR inspections of distribution assets

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k) LiDAR inspections of transmission assets.

RESPONSE TO REQUEST NO. 10:

Liberty is evaluating the results of differing wildfire risk assessments at the circuit and/or circuit segment level to plan and prioritize how future work is sequenced in 2024. For additional information, refer to Section 6.7, Section 7.1.3, Section 7.1.4, and individual initiative subsections in Section 8 of Liberty's 2023 WMP pre-submission.

If you have any questions or require any additional information, please contact me at:

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