

Public Advocates Office Data Request
No. CalAdvocates-BVES-2023WMP-03
Proceeding: 2023-2025 Wildfire Mitigation Plans

Date of issuance: Wednesday, February 22, 2023
Responses due: Wednesday, March 22, 2023

From: Holly Wehrman

Senior Utilities Engineer
Public Advocates Office

Phone: (415) 696-7319
Email: Holly.Wehrman@cpuc.ca.gov

Carolyn Chen

Attorney
Public Advocates Office

Phone: (415) 703-1980
Email: Carolyn.Chen@cpuc.ca.gov

Marybelle Ang

Attorney
Public Advocates Office

Phone: (415) 696-7329
Email: Marybelle.Ang@cpuc.ca.gov

Cal Advocates Wildfire Discovery

Email: CalAdvocates.WildfireDiscovery@cpuc.ca.gov

DATA REQUEST

The following questions relate to your 2023-2025 WMP submission and to work that was completed pursuant to previous years' WMPs. If a full response to a given question will be included in your WMP submission, your response to that question of this data request may consist of a citation to the specific page(s) or table(s) of the WMP where the information may be found, a written response to the question, or both. Please note that, for this data request, the geographical regions are mutually exclusive (i.e., "Other HFTD" excludes areas that are in either Tier 2 or Tier 3). Therefore, for any given circuit, the following relationships should hold:

- Tier 2 miles + Tier 3 miles + Other HFTD miles = total HFTD miles.
- Tier 2 miles + Tier 3 miles + Other HFTD miles + non-HFTD miles = total circuit miles.

Question 1

Provide an Excel table of all 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. Miles of covered conductor installed in Non-HFTD in 2021
- t. Miles of covered conductor installed in Non-HFTD in 2022
- u. Miles of covered conductor installed in Other HFTD in 2021
- v. Miles of covered conductor installed in Other HFTD in 2022
- w. Miles of covered conductor installed in HFTD Tier 2 in 2021
- x. Miles of covered conductor installed in HFTD Tier 2 in 2022
- y. Miles of covered conductor installed in HFTD Tier 3 in 2021
- z. Miles of covered conductor installed in HFTD Tier 3 in 2022
- aa. Number of poles replaced in Non-HFTD in 2021
- bb. Number of poles replaced in Non-HFTD in 2022
- cc. Number of poles replaced in Other HFTD in 2021
- dd. Number of poles replaced in Other HFTD in 2022
- ee. Number of poles replaced in HFTD Tier 2 in 2021
- ff. Number of poles replaced in HFTD Tier 2 in 2022
- gg. Number of poles replaced in HFTD Tier 3 in 2021
- hh. Number of poles replaced in HFTD Tier 3 in 2022
- ii. Miles of underground conductor installation in Non-HFTD in 2021
- jj. Miles of underground conductor installation in Non-HFTD in 2022
- kk. Miles of underground conductor installation in Other HFTD in 2021
- ll. Miles of underground conductor installation in Other HFTD in 2022
- mm. Miles of underground conductor installation in HFTD Tier 2 in 2021
- nn. Miles of underground conductor installation in HFTD Tier 2 in 2022
- oo. Miles of underground conductor installation in HFTD Tier 3 in 2021

- pp. Miles of underground conductor installation in HFTD Tier 3 in 2022
- qq. Miles of LiDAR inspection in Non-HFTD in 2021
- rr. Miles of LiDAR inspection in Non-HFTD in 2022
- ss. Miles of LiDAR inspection in Other HFTD in 2021
- tt. Miles of LiDAR inspection in Other HFTD in 2022
- uu. Miles of LiDAR inspection in HFTD Tier 2 in 2021
- vv. Miles of LiDAR inspection in HFTD Tier 2 in 2022
- ww. Miles of LiDAR inspection in HFTD Tier 3 in 2021
- xx. Miles of LiDAR inspection in HFTD Tier 3 in 2022
- yy. Number of detailed overhead asset inspections in Non-HFTD in 2021
- zz. Number of detailed overhead asset inspections in Non-HFTD in 2022
- aaa. Number of detailed overhead asset inspections in Other HFTD in 2021
- bbb. Number of detailed overhead asset inspections in Other HFTD in 2022
- ccc. Number of detailed overhead asset inspections in HFTD Tier 2 in 2021
- ddd. Number of detailed overhead asset inspections in HFTD Tier 2 in 2022
- eee. Number of detailed overhead asset inspections in HFTD Tier 3 in 2021
- fff. Number of detailed overhead asset inspections in HFTD Tier 3 in 2022
- ggg. Number of sectionalizing devices installed in Non-HFTD in 2021
- hhh. Number of sectionalizing devices installed in Non-HFTD in 2022
- iii. Number of sectionalizing devices installed in Other HFTD in 2021
- jjj. Number of sectionalizing devices installed in Other HFTD in 2022
- kkk. Number of sectionalizing devices installed in HFTD Tier 2 in 2021
- lll. Number of sectionalizing devices installed in HFTD Tier 2 in 2022
- mmm. Number of sectionalizing devices installed in HFTD Tier 3 in 2021
- nnn. Number of sectionalizing devices installed in HFTD Tier 3 in 2022.

Response

Please refer to the attached Excel table titled “CalAdvocates-BVES-2023WMP-03 Support Table”

Question 2

Provide an Excel table of all circuits existing as of January 1, 2022 (as rows) that were removed or decommissioned in 2022, either partially or entirely. 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

No circuits were removed or decommissioned in 2022.

Question 3

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

Response

Vegetation Management is completed on a 3-year cycle for the BVES territory. Emergency Vegetation Management was performed as higher risk situation arose.

- b. Covered conductor installation

Response

BVES installed covered conductor is focused on main distribution lines for several circuits. 4.95 of the 12.96 circuit miles of the covered conductor were installed on circuits with higher modeled Wildfire Risk Scores.

- c. Undergrounding

Response

No undergrounding of the grid was completed. Only replacement/ maintenance of existing underground services were performed.

d. Distribution pole replacement

Response

A majority of pole replacements were completed in conjunction with installation of covered conductor. Pole installation/replacement was also performed for removal of tree attachments. Modeled Wildfire Risk Scores for circuits were utilized in prioritizing the removal of tree attachments.

e. Grid sectionalization

Response

No sectionalization was added to the grid. Temporary grid sectionalization was performed for the completing of covered conductor installation, removal of tree attachments, and other maintenance to the grid.

f. Detailed inspections of distribution assets

Response

Detailed inspections of the distribution assets are completed on a 5-year cycle for the BVES territory. Detailed inspections were performed on the scheduled circuits.

g. Aerial inspections of distribution assets

Response

Aerial inspections were completed throughout the aboveground BVES distribution system.

h. LiDAR inspections of distribution assets.

Response

LiDAR inspections were completed throughout the aboveground BVES distribution system.

Question 4

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. Vegetation management

Response

Vegetation Management is completed on a scheduled 3-year cycle for the BVES territory. Emergency Vegetation Management was performed as higher risk situation arose.

b. Covered conductor installation

Response

Covered conductor installation is performed throughout the year. Covered Conductor installation was sequenced based on continuity of operation of the grid.

c. Undergrounding

Response

No undergrounding of the grid was completed. Only replacement/maintenance of existing underground services were performed.

d. Distribution pole replacement

Response

A majority of pole replacements were completed in conjunction with installation of covered conductor. Pole installation/replacement for removal of tree attachments are typically performed in the 4th quarter.

e. Grid sectionalization

Response

No sectionalization was added to the grid. Temporary grid sectionalization was performed for the completing of covered conductor installation, removal of tree attachments, and other maintenance to the grid.

f. Detailed inspections of distribution assets

Response

Detailed inspections are conducted on a scheduled basis throughout the year.

g. Aerial inspections of distribution assets

Response

Aerial inspections are annually conducted on the entire aboveground grid prior to fire season.

h. LiDAR inspections of distribution assets.

Response

LiDAR inspections are annually conducted on the entire aboveground grid prior to fire season.

Question 5

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. Vegetation management

Response

Vegetation Management is completed on a 3-year cycle for the BVES territory. Emergency Vegetation Management will be performed as higher risk situation arise.

b. Covered conductor installation

Response

BVES installed covered conductor focused on main distribution lines for several circuits. 7.69 of the 15.75 circuit miles of the covered conductor are planned to be installed on circuits with higher modeled Wildfire Risk Scores.

c. Undergrounding

Response

No undergrounding of the grid is planned. Only replacement/ maintenance of existing underground services will be performed.

d. Distribution pole replacement

Response

A majority of pole replacements are completed in conjunction with installation of covered conductor. Pole installation/replacement are also performed for removal of tree attachments. Modeled Wildfire Risk Scores is utilized in prioritizing the removal of tree attachments.

e. Grid sectionalization

Response

No sectionalization will be added to the grid. Temporary grid sectionalization will be performed for the completing of covered conductor installation, removal of tree attachments, and other maintenance to the grid.

f. Detailed inspections of distribution assets

Response

Detailed inspections of the distribution assets are completed on a 5-year cycle for the BVES territory. Detailed inspections will be performed on the scheduled circuits.

g. Aerial inspections of distribution assets

Response

Aerial inspections will be completed throughout the aboveground BVES distribution system prior to fire season.

h. LiDAR inspections of distribution assets.

Response

LiDAR inspections will be completed throughout the aboveground BVES distribution system prior to fire season.

Question 6

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

a. Vegetation management

Vegetation Management is completed on a scheduled 3-year cycle for the BVES territory. Emergency Vegetation Management will be performed as higher risk situation arose.

b. Covered conductor installation

Response

Covered conductor installation will be performed throughout the year. Covered Conductor installation is sequenced based on continuity of operation of the grid.

c. Undergrounding

Response

No undergrounding of the grid will be completed. Only replacement/maintenance of existing underground services will be performed.

d. Distribution pole replacement

Response

A majority of pole replacements will be completed in conjunction with installation of covered conductor. Pole installation/replacement for removal of tree attachments are typically performed in the 4th quarter.

e. Grid sectionalization

Response

No sectionalization will be added to the grid. Temporary grid sectionalization will be performed for the completing of covered conductor installation, removal of tree attachments, and other maintenance to the grid.

f. Detailed inspections of distribution assets

Response

Detailed inspections are conducted on a scheduled basis throughout the year.

g. Aerial inspections of distribution assets

Response

Aerial inspections are annually conducted on the entire aboveground grid prior to fire season.

h. LiDAR inspections of distribution assets.

Response

LiDAR inspections are annually conducted on the entire aboveground grid prior to fire season.

Question 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 2024:

a. Vegetation management

Response

Vegetation Management is completed on a 3-year cycle for the BVES territory. Emergency Vegetation Management will be performed as higher risk situation arise.

b. Covered conductor installation

Response

BVES installed covered conductor is focused on main distribution lines for several circuits. 11.11 of the 12.91 circuit miles of the covered conductor are planned to be installed on circuits with higher modeled Wildfire Risk Scores.

c. Undergrounding

Response

No undergrounding of the grid is planned. Only replacement/ maintenance of existing underground services will be performed.

d. Distribution pole replacement

Response

A majority of pole replacements are completed in conjunction with installation of covered conductor. Pole installation/replacement are also performed for removal of tree attachments. Modeled Wildfire Risk Scores is utilized in prioritizing the removal of tree attachments.

e. Grid sectionalization

Response

No sectionalization will be added to the grid. Temporary grid sectionalization will be performed for the completing of covered conductor installation, removal of tree attachments, and other maintenance to the grid.

f. Detailed inspections of distribution assets

Response

Detailed inspections of the distribution assets are completed on a 5-year cycle for the BVES territory. Detailed inspections will be performed on the scheduled circuits.

g. Aerial inspections of distribution assets

Response

Aerial inspections will be completed throughout the aboveground BVES distribution system prior to fire season.

h. LiDAR inspections of distribution assets.

Response

LiDAR inspections will be completed throughout the aboveground BVES distribution system prior to fire season.

Question 8

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. Vegetation management

Vegetation Management is completed on a scheduled 3-year cycle for the BVES territory. Emergency Vegetation Management will be performed as higher risk situation arose.

b. Covered conductor installation

Response

Covered conductor installation will be performed throughout the year. Covered Conductor installation is sequenced based on continuity of operation of the grid.

c. Undergrounding

Response

No undergrounding of the grid will be completed. Only replacement/maintenance of existing underground services will be performed.

d. Distribution pole replacement

Response

A majority of pole replacements will be completed in conjunction with installation of covered conductor. Pole installation/replacement for removal of tree attachments are typically performed in the 4th quarter.

e. Grid sectionalization

Response

No sectionalization will be added to the grid. Temporary grid sectionalization will be performed for the completing of covered conductor installation, removal of tree attachments, and other maintenance to the grid.

f. Detailed inspections of distribution assets

Response

Detailed inspections are conducted on a scheduled basis throughout the year.

g. Aerial inspections of distribution assets

Response

Aerial inspections are annually conducted on the entire aboveground grid prior to fire season.

h. LiDAR inspections of distribution assets.

Response

LiDAR inspections are annually conducted on the entire aboveground grid prior to fire season.

END OF REQUEST